

## Ohlasy / Citations, reviews

Department: SAVMAMES - Ústav materiálov a mechaniky strojov SAV

Date of citation, review: 2011~2014

### Citations, reviews

Citations in Web of Science Core Collection (1.1, 2.1)	992
Citations in SCOPUS (1.2, 2.2)	331
Citations in other citation indexes and databases (not listed above) (3.2, 4.2, 9, 10)	3
Other citations (not listed above) (3, 4, 3.1, 4.1)	119
Reviews (5, 6)	1
<b>Count</b>	<b>1446</b>

### AAA Scientific monographs published abroad

AAA01      BÍLÝ, Matěj - ČAČKO, Jozef - KLIMAN, Vladimír. *Cyclic deformation and fatigue of metals*. Editor Matěj Bílý. Vyd. 1. Amsterdam : Elsevier, 1993. S.372. ISBN 0-444-98790-8.

Ohlasy:

[1.1]      CHMELKO, V. Cyclic anelasticity of metals. In KOVOVE MATERIALY-METALLIC MATERIALS. ISSN 0023-432X, 2014, vol. 52, no. 6, p. 353-359., WOS

AAA02      ČAČKO, Jozef - BÍLÝ, Matej - BUKOVECZKY, Juraj. *Random process: Measurement, analysis and simulation*. Amsterdam : Elsevier, 1988. 233s. ISBN 0-444-41756-7.

Ohlasy:

[1.1]      LIGAJ, B. - SZALA, G. Fatigue life calculation in conditions of wide spectrum random loadings - the experimental verification of a calculation algorithm on the example of 41Cr4 steel. In FATIGUE FAILURE AND FRACTURE MECHANICS. ISSN 0255-5476, 2012, vol. 726, p. 17-26., WOS

[1.1]      MUCKA, P. - KROPAC, O. Simulation of Obstacles in a Longitudinal Road Profile Based on the Weibull Distribution. In JOURNAL OF TESTING AND EVALUATION. ISSN 0090-3973, MAY 2011, vol. 39, no. 3, p. 335-345., WOS

AAA03      MATEJKA, Dušan - BENKO, Bernard. *Plasma spraying of metallic and ceramic materials*. Chichester : John Wiley and Sons, 1989. 280 s.

Ohlasy:

[1.1]      BIAN, H.M. - YANG, Y. - WANG, Y. - TIAN, W. Preparation of nanostructured alumina-titania composite powders by spray drying, heat treatment and plasma treatment. In POWDER TECHNOLOGY. ISSN 0032-5910, MAR 2012, vol. 219, p. 257-263., WOS

- [1.1] CETINKAYA, S. - EROGLU, S. Chemical vapor deposition of carbon on particulate TiO<sub>2</sub> from CH<sub>4</sub> and subsequent carbothermal reduction for the synthesis of nanocrystalline TiC powders. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. ISSN 0955-2219, MAY 2011, vol. 31, no. 5, p. 869-876., WOS
- [1.1] CETINKAYA, S. - EROGLU, S. Comparative kinetic and structural analyses of nanocrystalline WC powder synthesis from pre-reduced W under pure and diluted CH<sub>4</sub> atmospheres. In INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS. ISSN 0263-4368, MAR 2011, vol. 29, no. 2, p. 214-220., WOS
- [1.1] GAO, F. - HUANG, X. - LIU, R. - YANG, Q. Optimization of Plasma Spray Process Using Statistical Methods. In JOURNAL OF THERMAL SPRAY TECHNOLOGY. ISSN 1059-9630, JAN 2012, vol. 21, no. 1, p. 176-186., WOS
- [1.1] GLOGOVIC, Z. - ALAR, V. - KOZUH, Z. - STOJANOVIC, I. - KRALJ, S. Corrosion properties of thermal sprayed aluminium (TSA) coatings deposited by powder flame spraying. In MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK. ISSN 0933-5137, MAR 2011, vol. 42, no. 3, p. 224-228., WOS
- [1.1] GLOGOVIC, Z. - KOZUH, Z. - KRALJ, S. A Mathematical Model for the Calculation of the Adhesion of a Flame Sprayed Coating of Aluminum on S 235 JR Steel. In JOURNAL OF THERMAL SPRAY TECHNOLOGY. ISSN 1059-9630, JAN 2012, vol. 21, no. 1, p. 63-76., WOS
- [1.1] HAN, G.Q. - ZHANG, Z.Z. An Research on Self-fused Alloy Coating by High Frequency Induction Treatment. In MATERIALS SCIENCE AND ENGINEERING APPLICATION II. ISSN 1022-6680, 2012, vol. 413, p. 351-354., WOS
- [1.1] WU, H.P. - FUNG, K.Z. Effects of enthalpy-enhancing gas on ionic conductivity of atmospheric plasma-sprayed 3.9 mol% yttria-stabilized zirconia electrolyte for 75-106 micron particles. In JOURNAL OF THE CERAMIC SOCIETY OF JAPAN. ISSN 1882-0743, OCT 2012, vol. 120, no. 1406, p. 400-407., WOS
- [1.1] XU, J.L. - KHOR, K.A. Plasma spraying for thermal barrier coatings: processes and applications. In THERMAL BARRIER COATINGS. 2011, p. 99-114., WOS

#### **AAB Scientific monographs published in Slovak publishing houses**

AAB01 ČELKO, Ján - DECKÝ, Martin - ĎURČANSKÁ, Daniela - GAWLOVÁ, Andrea - VALUCH, Milan - MÚČKA, Peter. Dopravné zaťaženie. In *Povrchové vlastnosti vozoviek : Prevádzková spoľahlivosť vozoviek*. - Žilina : Žilinská univerzita, 2000, s.26-33. ISBN 80-7100-774-9.

Ohlasy:

[4] BENKÓ, Z. Systém hospodárenia s vozovkami v podmienkach Slovenskej správy ciest. In: Q-2012 Výstavba, financovanie a správa ciest a diaľnic : zborník prednášok. Žilina: Žilinská univerzita, 2012. ISBN 978-80-554-0572-8, s. 44-48.

[4] SLABEJ, M. Formation of degradative models of parameters of pavement serviceability. In TRANSCOM 2011 : 9-th European conference of young research and scientific workers. Žilina: University of Žilina, 2011. ISBN 978-80-554-0376-2, s. 129-132.

AAB02 ČELKO, Ján - DECKÝ, Martin - ĎURČANSKÁ, Daniela - GAVULOVÁ, Andrea - VALUCH, Milan - MÚČKA, Peter. Povrchové vlastnosti vozoviek - Prevádzková spôsobilosť vozoviek. In *Povrchové vlastnosti vozoviek : Prevádzková spoľahlivosť vozoviek*. - Žilina : Žilinská univerzita, 2000. ISBN 80-7100-774-9.

Ohlasy:

[1.2] KOTEK, Peter - FLORKOVÁ, Zuzana. Comparison of the skid resistance at different asphalt pavement surfaces over time. In *Procedia Engineering*. ISSN 18777058, 2014-01-01, 91, pp. 459-463., SCOPUS

[1.2] SLABEJ, Martin - KOTEK, Peter. Using of 3D road surface model for monitoring of transverse unevenness and skid resistance. In *Procedia Engineering*. ISSN 18777058, 2014-01-01, 91, pp. 475-480., SCOPUS

[3.1] SLABEJ, Martin. Performance of selected pavement serviceability parameters and surface deteriorations. In *PROCEEDINGS of 4th INTERNATIONAL SCIENTIFIC CONFERENCE VSU' 2014*. Eds. Stoyanov, V., Partov, D. University of Structural Engineering and Architecture (VSU) „L. Karavelov“, 14-15. June 2014, Sofia, Bulgaria. ISSN 1314-071X. Dostupné na internete: [http://eprints.ugd.edu.mk/10584/1/Volume\\_1.pdf](http://eprints.ugd.edu.mk/10584/1/Volume_1.pdf)

[3.2] KOTEK, Peter. Uplatnenie trojrozmerného obrazu povrchu vozovky na sledovanie a analýzu textúry. In *RESEARCH, DEVELOPMENT AND INNOVATION IN TRANSPORT – RDIT 2014*, 30.10.2014, Vysoké Mýto, Vysoká škola báňská – Technická univerzita Ostrava, Ostrava, Česká republika, pp. 68-73. ISBN 978-80-248-3613-3. Dostupné na internete:

<http://files.rdit.cz/200000255-80ae981a9b/Sborn%C3%ADk%20odborn%C3%A9ho%20semin%C3%A1%C5%99e%20RDIT%202014.pdf>, StavEduk

[4] SLABEJ, Martin. Degradáčna funkcia priečnej nerovnosti. In *SILNICE ŽELEZNICE*. ISSN 1803-8441, 2013, Vol. 8, No. 3, p. 83–86. Web info:

<http://www.silnice-zeleznice.cz/clanek/degradacna-funkcia-priečnej-nerovnosti/>

AAB03 ČOREJ, Ján - DECKÝ, Martin - KOMAČKA, Jozef - SCHLOSSER, František - REMIŠOVÁ, Eva - VALUCH, Milan - GAVULOVÁ, Andrea - MÚČKA, Peter. Dynamické zaťaženie vozovky od účinkov vozidiel. In *Mechanika vozoviek : Navrhovanie vozoviek a spevnených plôch*. - Žilina : Žilinská univerzita/EDIS, 2001, s.37-42. ISBN 80-7100-862-1.

Ohlasy:

[4] LAJČÁKOVÁ, G. – MELCER, J. Numerické modelovanie účinkov vozidiel na cementobetónové vozovky. In: *Civil and Environmental Engineering/Stavebné a environmentálne inžinierstvo*, 2/2011, s. 150-157, ISSN 1336-5835.

AAB04 MARKUŠ, Štefan. *The mechanics of vibrations of cylindrical shells*. Bratislava : Veda SAV, 1988. 176 s.

Ohlasy:

[1.1] FIROUZ-ABADI, R.D. - TORKAMAN-ASADI, M.A. - RAHMANIAN, M. Whirling frequencies of thin spinning cylindrical shells surrounded by an elastic foundation. In *ACTA MECHANICA*. ISSN 0001-5970, APR 2013, vol. 224, no. 4, p. 881-892., WOS

[1.1] GOPALAKRISHNAN, Srinivasan - NARENDAR, Saggam. Wave Propagation in Nanoshells. In *WAVE PROPAGATION IN NANOSTRUCTURES: NONLOCAL CONTINUUM MECHANICS FORMULATIONS*. ISSN 1434-4904, 2013, vol., no., pp. 323-353., WOS

- [1.1] HAN, Q.K. - QIN, Z.Y. - ZHAO, J.S. - CHU, F.L. Parametric instability of cylindrical thin shell with periodic rotating speeds. In INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS. ISSN 0020-7462, DEC 2013, vol. 57, p. 201-207., WOS
- [1.1] KE, Liao-Liang - WANG, Yue-Sheng - YANG, Jie - KITIPORNCHAI, Sritawat. The size-dependent vibration of embedded magneto-electro-elastic cylindrical nanoshells. In SMART MATERIALS AND STRUCTURES. ISSN 0964-1726, DEC 2014, vol. 23, no. 12., WOS
- [1.1] KWAK, Moon K. - YANG, Dong-Ho. Active vibration control of a ring-stiffened cylindrical shell in contact with unbounded external fluid and subjected to harmonic disturbance by piezoelectric sensor and actuator. In JOURNAL OF SOUND AND VIBRATION. ISSN 0022-460X, 2013, vol. 332, no. 20, pp. 4775-4797., WOS
- [1.1] KWAK, M.K. - YANG, D.H. - LEE, J.H. Active vibration control of a submerged cylindrical shell by piezoelectric sensors and actuators. In ACTIVE AND PASSIVE SMART STRUCTURES AND INTEGRATED SYSTEMS 2012. ISSN 0277-786X, 2012, vol. 8341., WOS
- [1.1] MALEKZADEH, P. - FIOUZ, A.R. - SOBHROUYAN, M. Three-dimensional free vibration of functionally graded truncated conical shells subjected to thermal environment. In INTERNATIONAL JOURNAL OF PRESSURE VESSELS AND PIPING. ISSN 0308-0161, JAN 2012, vol. 89, p. 210-221., WOS
- [1.1] QU, Yegao - CHEN, Yong - LONG, Xinhua - HUA, Hongxing - MENG, Guang. A modified variational approach for vibration analysis of ring-stiffened conical-cylindrical shell combinations. In EUROPEAN JOURNAL OF MECHANICS A-SOLIDS. ISSN 0997-7538, 2013, vol. 37, no., pp. 200-215., WOS
- [1.1] QU, Yegao - CHEN, Yong - LONG, Xinhua - HUA, Hongxing - MENG, Guang. A variational method for free vibration analysis of joined cylindrical-conical shells. In JOURNAL OF VIBRATION AND CONTROL. ISSN 1077-5463, 2013, vol. 19, no. 16, pp. 2319-2334., WOS
- [1.1] QU, Y.G. - CHEN, Y. - LONG, X.H. - HUA, H.X. - MENG, G. Free and forced vibration analysis of uniform and stepped circular cylindrical shells using a domain decomposition method. In APPLIED ACOUSTICS. ISSN 0003-682X, MAR 2013, vol. 74, no. 3, p. 425-439., WOS
- [1.1] ROHLFING, J. - GARDONIO, P. Combined active noise and vibration control for a ventilation duct. In PROCEEDINGS OF INTERNATIONAL CONFERENCE ON NOISE AND VIBRATION ENGINEERING (ISMA2012) / INTERNATIONAL CONFERENCE ON UNCERTAINTY IN STRUCTURAL DYNAMICS (USD2012). 2012, p. 519-531., WOS
- [1.1] ROHLFING, J. - GARDONIO, P. Ventilation duct with concurrent acoustic feed-forward and decentralised structural feedback active control. In JOURNAL OF SOUND AND VIBRATION. ISSN 0022-460X, FEB 3 2014, vol. 333, no. 3, p. 630-645., WOS
- [1.1] TOMABENE, Francesco - FANTUZZI, Nicholas - BACCIOCCHI, Michele. Free vibrations of free-form doubly-curved shells made of functionally graded materials using higher-order equivalent single layer theories. In COMPOSITES PART B-ENGINEERING. ISSN 1359-8368, DEC 2014, vol. 67, p. 490-509., WOS
- [1.1] TORNABENE, Francesco - FANTUZZI, Nicholas - VIOLA, Erasmo -

REDDY, J. N. Winkler-Pasternak foundation effect on the static and dynamic analyses of laminated doubly-curved and degenerate shells and panels. In COMPOSITES PART B-ENGINEERING. ISSN 1359-8368, FEB 2014, vol. 57, p. 269-296., WOS

[1.1] TORNABENE, Francesco - FANTUZZI, Nicholas - VIOLA, Erasmo - CARRERA, Erasmo. Static analysis of doubly-curved anisotropic shells and panels using CUF approach, differential geometry and differential quadrature method. In COMPOSITE STRUCTURES. ISSN 0263-8223, JAN 2014, vol. 107, p. 675-697., WOS

[1.1] TORNABENE, F. - CERUTI, A. Mixed Static and Dynamic Optimization of Four-Parameter Functionally Graded Completely Doubly Curved and Degenerate Shells and Panels Using GDQ Method. In MATHEMATICAL PROBLEMS IN ENGINEERING. ISSN 1024-123X, 2013., WOS

[1.1] TORNABENE, F. - FANTUZZI, N. - VIOLA, E. - FERREIRA, A.J.M. Radial basis function method applied to doubly-curved laminated composite shells and panels with a General Higher-order Equivalent Single Layer formulation. In COMPOSITES PART B-ENGINEERING. ISSN 1359-8368, DEC 2013, vol. 55, p. 642-659., WOS

[1.1] TORNABENE, F. - LIVERANI, A. - CALIGIANA, G. General anisotropic doubly-curved shell theory: A differential quadrature solution for free vibrations of shells and panels of revolution with a free-form meridian. In JOURNAL OF SOUND AND VIBRATION. ISSN 0022-460X, OCT 22 2012, vol. 331, no. 22, p. 4848-4869., WOS

[1.1] TORNABENE, F. - LIVERANI, A. - CALIGIANA, G. Static analysis of laminated composite curved shells and panels of revolution with a posteriori shear and normal stress recovery using generalized differential quadrature method. In INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES. ISSN 0020-7403, AUG 2012, vol. 61, no. 1, p. 71-87., WOS

[1.1] TORNABENE, F. - LIVERANI, A. - CALIGIANA, G. Laminated composite rectangular and annular plates: A GDQ solution for static analysis with a posteriori shear and normal stress recovery. In COMPOSITES PART B-ENGINEERING. ISSN 1359-8368, JUN 2012, vol. 43, no. 4, p. 1847-1872., WOS

[1.1] TORNABENE, F. - REDDY, J.N. FGM and Laminated Doubly-Curved and Degenerate Shells Resting on Nonlinear Elastic Foundations: A GDQ Solution for Static Analysis with a Posteriori Stress and Strain Recovery. In JOURNAL OF THE INDIAN INSTITUTE OF SCIENCE. ISSN 0970-4140, OCT-DEC 2013, vol. 93, no. 4, p. 635-688., WOS

[1.1] TORNABENE, F. - VIOLA, E. Static analysis of functionally graded doubly-curved shells and panels of revolution. In MECCANICA. ISSN 0025-6455, MAY 2013, vol. 48, no. 4, p. 901-930., WOS

[1.1] TORNABENE, F. - VIOLA, E. - FANTUZZI, N. General higher-order equivalent single layer theory for free vibrations of doubly-curved laminated composite shells and panels. In COMPOSITE STRUCTURES. ISSN 0263-8223, OCT 2013, vol. 104, p. 94-117., WOS

[1.1] VIOLA, E. - TORNABENE, F. - FANTUZZI, N. Static analysis of completely doubly-curved laminated shells and panels using general higher-order shear deformation theories. In COMPOSITE STRUCTURES. ISSN 0263-8223, JUL 2013, vol. 101, p. 59-93., WOS

[1.1] VIOLA, E. - TORNABENE, F. - FANTUZZI, N. General higher-order

shear deformation theories for the free vibration analysis of completely doubly-curved laminated shells and panels. In COMPOSITE STRUCTURES. ISSN 0263-8223, JAN 2013, vol. 95, p. 639-666., WOS

### **ABC Chapters in scientific monographs published abroad**

ABC01 KAVECKÝ, Štefan - JANEKOVÁ, Beata - ŠAJGALÍK, Pavol. Composition and morphology control of Si-C-N powders by CVD method. In *Engineering Ceramics: Multifunctional Properties-New Perspectives*. - Zuerich : Trans Tech Publications, 1999, p. 49-55. ISBN 0-87849-846-x.

Ohlasy:

[1.1] DEGENHARDT, Ulrich - STEGNER, Frank - LIEBSCHER, Christian - GLATZEL, Uwe - BERROTH, Karl - KRENKEL, Walter - MOTZ, Guenter. Sintered silicon nitride/nano-silicon carbide materials based on preceramic polymers and ceramic powder. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. ISSN 0955-2219, 2012, vol. 32, no. 9, pp. 1893., WOS

ABC02 SIMANČÍK, František. The strange world of cellular metals. In Wiley Verlag. *Handbook of Cellular Metals : production, processing, applications*. - Weinheim : Wiley Verlag, 2002, s.1-4. ISBN 3-527-30339-1.

Ohlasy:

[1.1] ANDANI, M.T. - MOGHADDAM, N.S. - HABERLAND, C. - DEAN, D. - MILLER, M.J. - ELAHINIA, M. Metals for bone implants. Part 1. Powder metallurgy and implant rendering. In ACTA BIOMATERIALIA. ISSN 1742-7061, OCT 2014, vol. 10, no. 10, p. 4058-4070., WOS

[1.1] LI, Y.H. - YANG, C. - ZHAO, H.D. - QU, S.G. - LI, X.Q. - LI, Y.Y. New Developments of Ti-Based Alloys for Biomedical Applications. In MATERIALS. ISSN 1996-1944, MAR 2014, vol. 7, no. 3, p. 1709-1800., WOS

[1.1] MUSTAPHA, M. - MUSTAPHA, F. - MAMAT, O. - HUSSAIN, P. Fabrication of aluminium foam through pressure assisted high frequency induction heated sintering dissolution process: an experimental observation. In POWDER METALLURGY. ISSN 0032-5899, JUL 2011, vol. 54, no. 3, p. 343-353., WOS

[1.1] SERAMAK, T. - SERBINSKI, W. - ZIELINSKI, A. Formation of Porous Structure of the Metallic Materials Used on Bone Implants. In ENVIRONMENTAL DEGRADATION OF ENGINEERING & MATERIALS ENGINEERING AND TECHNOLOGIES. ISSN 1012-0394, 2012, vol. 183, p. 155-162., WOS

### **ADC ADC**

ADC01 KOVÁČIK, Jaroslav. Correlation between Poisson's ratio and porosity in porous materials. In *Journal of Materials Science Letters*, 2006, vol. 41, p. 1247-1249. ISSN 0261-8028.

Ohlasy:

[1.1] COHEN-TANUGI, David - GROSSMAN, Jeffrey C. Mechanical Strength of Nanoporous Graphene as a Desalination Membrane. In NANO LETTERS. ISSN 1530-6984, NOV 2014, vol. 14, no. 11, p. 6171-6178., WOS

[1.1] MAZEL, V. - BUSIGNIES, V. - DIARRA, H. - TCHORELOFF, P. On the Links Between Elastic Constants and Effective Elastic Behavior of Pharmaceutical Compacts: Importance of Poisson's Ratio and Use of Bulk Modulus. In JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN

0022-3549, NOV 2013, vol. 102, no. 11, p. 4009-4014., WOS

[1.1] SEKANINA, Z. - CHODAS, P.W. COMET C/2011 W3 (LOVEJOY): ORBIT DETERMINATION, OUTBURSTS, DISINTEGRATION OF NUCLEUS, DUST-TAIL MORPHOLOGY, AND RELATIONSHIP TO NEW CLUSTER OF BRIGHT SUNGRAZERS. In *ASTROPHYSICAL JOURNAL*. ISSN 0004-637X, OCT 1 2012, vol. 757, no. 2., WOS

[1.1] ZABULIONIS, D. - KIZINIEVIC, O. - KIZINIEVIC, V. A Porosity Prediction Methodology of Building Ceramics with Burning-out Additives. In *MODERN BUILDING MATERIALS, STRUCTURES AND TECHNIQUES*. ISSN 1877-7058, 2013, vol. 57, p. 1278-1287., WOS

ADC02 KROPÁČ, Oldřich - MÚČKA, Peter. Effect of obstacles on the indicators of road unevenness. In *Proceedings of the Institution of Mechanical Engineers Part D : Journal of Automobile Engineering*, 2006, vol. 220, no.D10, p.1333-1343.

Ohlasy:

[1.2] KIM, G.-W. - KUCHARSKI, J. - PIETRON, G. - YANAKIEV, D. - FUJII, Y. - WANG, K.-W. Effect of road excitations on driveline output torque measurements. In *SAE Technical Papers*, 2011, pp., SCOPUS

[1.2] MUNARI, L.A. - FONTANELLA, L. - HOSS, L. - MARCZAK, R.J. Retrieving road surface profiles from PSDs for ride simulation of vehicles. In *SAE Technical Papers*, 2012, pp., SCOPUS

ADC03 KROPÁČ, Oldřich - MÚČKA, Peter. Longitudinal road unevenness with periodic components: Characterization and effects on people in a traversing vehicle and the loading of the pavement. In *Proceedings of the Institution of Mechanical Engineers Part D : Journal of Automobile Engineering*, 2005, vol. 219, p.773-790.

Ohlasy:

[1.1] KIM, Bum Seok - YOO, Hong Hee. Ride comfort uncertainty analysis and reliability design of a passenger vehicle undergoing random road excitation. In *PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART D-JOURNAL OF AUTOMOBILE ENGINEERING*. ISSN 0954-4070, 2013, vol. 227, no. 3, pp. 433., WOS

[1.2] MUNARI, L.A. - FONTANELLA, L. - HOSS, L. - MARCZAK, R.J. Retrieving road surface profiles from PSDs for ride simulation of vehicles. In *SAE Technical Papers*, 2012, pp., SCOPUS

ADC04 KUDLIČKA, Ján. Energy flow of axisymmetric elastic waves in a three-layered, transtropic-isotropic-transtropic, composite cylinder : Letter to the Editor. In *Journal of Sound and Vibration*, 2004, vol. 277, p.1093-1100. ISSN 0022-460 X.

Ohlasy:

[1.1] AKBAROV, S. D. - KEPCELER, T. - EGILMEZ, M. Mert. On the influence of initial strains in layers on the propagation of torsional waves in a hollow sandwich cylinder (soft core and stiff face layers). In *MECHANICS OF COMPOSITE MATERIALS*. ISSN 0191-5665, 2013, vol. 49, no. 3, pp. 297-304., WOS

[1.1] AKBAROV, S.D. - KEPCELER, T. - EGILMEZ, M.M. Torsional wave dispersion in a finitely pre-strained hollow sandwich circular cylinder. In *JOURNAL OF SOUND AND VIBRATION*. ISSN 0022-460X, AUG-SEP 2011, vol. 330, no. 18-19, p. 4519-4537., WOS

[1.1] AKBAROV, S.D. - KEPCELER, T. - EGILMEZ, M.M. On the Some Particularities of the Torsional Wave Dispersion in a Finitely Pre-Deformed Hollow Sandwich Cylinder. In CMC-COMPUTERS MATERIALS & CONTINUA. ISSN 1546-2218, JUL 2012, vol. 30, no. 1, p. 83-97., WOS

ADC05 NAGY, Juraj - BALOG, Martin - IŽDINSKÝ, Karol - SIMANČÍK, František - ŠVEC, Peter - JANIČKOVIČ, Dušan. High strength potential of aluminium nanocomposites reinforced with nonperiodical phases. In *International Journal of Materials and Product Technology*, 2005, vol. 23, nos.1/2, p.79-90. ISSN 0268-1900.

Ohlasy:

[3] DUDINA, D. V. - GEORGARAKIS, K. - YAVARI, A. R. Metal matrix composites reinforced with metallic glass particles : state of the art. In DAVIM, J. P. *Metal Matrix Composites*, Nova Science Publishers, ISBN: 978-1-61209-771-8, 2012, pp. 1-30.

ADC06 RUDAJEVOVÁ, A. - KÚDELA, Stanislav - STANĚK, M. - LUKÁČ, Pavel. Thermal properties of Mg - Li and Mg - Li - Al alloys. In *Materials Science and Technology*. - London : Institute of Metals, 2003, 2003, vol. 19, august, p.1097-1100. ISSN 0267-0836.

Ohlasy:

[1.1] LI, J.Q. - QU, Z.K. - WU, R.Z. - ZHANG, M.L. - ZHANG, J.H. Microstructure, mechanical properties and aging behaviors of as-extruded Mg-5Li-3Al-2Zn-1.5Cu alloy. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, APR 25 2011, vol. 528, no. 10-11, p. 3915-3920., WOS

#### **ADCA Scientific papers in foreign journals registered in Current Contents Connect with IF (impacted)**

ADCA01 BALLO, Igor. Comparison of the properties of active and semiactive suspension. In *Vehicle System Dynamics*, 2007, vol. 45, no.11, p.1065-1073. (2007 - Current Contents). ISSN 0042-3114.

Ohlasy:

[1.1] CAO, D.P. - SONG, X.B. - AHMADIAN, M. Editors' perspectives: road vehicle suspension design, dynamics, and control. In VEHICLE SYSTEM DYNAMICS. ISSN 0042-3114, 2011, vol. 49, no. 1-2, p. 3-28., WOS

[1.1] CHEN, Y.K. - HE, J. - KING, M. - CHEN, W.W. - ZHANG, W.H. Stiffness-damping matching method of an ECAS system based on LQG control. In JOURNAL OF CENTRAL SOUTH UNIVERSITY. ISSN 2095-2899, JAN 2014, vol. 21, no. 1, p. 439-446., WOS

[1.1] POTTER, J.N. - NEILD, S.A. - WAGG, D.J. Quasi-active suspension design using magnetorheological dampers. In JOURNAL OF SOUND AND VIBRATION. ISSN 0022-460X, MAY 9 2011, vol. 330, no. 10, p. 2201-2219., WOS

[1.1] SPELTA, C. - PREVIDI, F. - SAVARESI, S.M. - BOLZERN, P. - CUTINI, M. - BISAGLIA, C. - BERTINOTTI, S.A. Performance analysis of semi-active suspensions with control of variable damping and stiffness. In VEHICLE SYSTEM DYNAMICS. ISSN 0042-3114, 2011, vol. 49, no. 1-2, p. 237-256., WOS



- [1.1] YAO, H.J. - FU, J. - PENG, Y.X. - WEN, M.F. - YU, M. The Experimental Study on Vibration Characteristics of MR Seat Suspension System. In 2013 IEEE INTERNATIONAL CONFERENCE ON VEHICULAR ELECTRONICS AND SAFETY (ICVES). 2013, p. 243-247., WOS
- [1.1] YAO, H.J. - FU, J. - YU, M. - PENG, Y.X. Semi-active H-infinity control of seat suspension with MR damper. In 13TH INTERNATIONAL CONFERENCE ON ELECTORRHEOLOGICAL FLUIDS AND MAGNETORHEOLOGICAL SUSPENSIONS (ERM2012). ISSN 1742-6588, 2013, vol. 412., WOS
- [1.1] YIN, Z.H. - KHAJEPOUR, A. - CAO, D.P. - EBRAHIMI, B. - GUO, K.H. Pneumatic suspension damping characterisation with equivalent damping ratio. In INTERNATIONAL JOURNAL OF HEAVY VEHICLE SYSTEMS. ISSN 1744-232X, 2012, vol. 19, no. 3, p. 314-332., WOS
- [1.2] MACIEJEWSKI, I. - KRZYŻYŃSKI, T. Control design of semi-active seat suspension systems [Projekt systemu sterowania semi-aktywnym układem zawieszenia siedziska]. In Journal of Theoretical and Applied Mechanics. ISSN 1429-2955, 2011, vol. 49, no. 4, pp. 1151-1168., SCOPUS
- [1.2] SEGLA, Štefan - OREČNÝ, Martin - TRIŠOVIĆ, Nataša R. Semiactive seat suspension with a vibration absorber. In Manufacturing Technology. ISSN 12132489, 2013-12-01, 13, 4, pp. 534-539., SCOPUS
- [3] SEGLA, Stefan – TRIŠOVIĆ, N. Optimization of semi-active seat suspension. In American journal of mechanical engineering, ISSN 2328-4102, 2013, Vol. 1, No. 7, pp. 221-225. Dostupné na internete: <http://pubs.sciepub.com/ajme/1/7/14/>
- [3] SEGLA, Stefan – TRIŠOVIĆ, N. Modeling and optimization of passive seat suspension. In American journal of mechanical engineering, ISSN 2328-4102, 2013, Vol. 1, No. 7, pp. 407–411. Dostupné na internete: <http://pubs.sciepub.com/ajme/1/7/51>
- [3] SEGLA, S. – KAJASTE, J. - KESKI-HONKOLA, P. Optimization of Semi-active Seat Suspension with Magnetorheological Damper, In Vibration Problems ICOVP 2011: The 10th International Conference on Vibration Problems. Ed. Naprstek j. et al., Dordrecht : Springer, cop. 2011, p. 393-398.

ADCA02 BALLO, Igor. Non-linear effects of vibration of a continuous transverse cracked slender shaft. In *Journal of Sound and Vibration*, 1998, vol. 217, no.2, pp.321-333. ISSN 0022-460 X.

Ohlasy:

- [1.1] DIXIT, A. - HANAGUD, S. Single beam analysis of damaged beams verified using a strain energy based damage measure. In INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES. ISSN 0020-7683, FEB 2011, vol. 48, no. 3-4, p. 592-602., WOS
- [1.1] DIXIT, A. - HODGES, D.H. A general damage theory: Solution of n(th)-order equations using Unified Framework. In MECHANICS RESEARCH COMMUNICATIONS. ISSN 0093-6413, OCT 2011, vol. 38, no. 7, p. 486-493., WOS
- [1.1] ZHANG, B. - LI, Y.M. Six degrees of freedom coupled dynamic response of rotor with a transverse breathing crack. In NONLINEAR DYNAMICS. ISSN 0924-090X, NOV 2014, vol. 78, no. 3, p. 1843-1861., WOS
- [1.2] DIXIT, A. - HODGES, D.H. Investigation of the effect of damage shape and beam shape using a unified framework. In Collection of Technical

Papers AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference, 2011, pp., SCOPUS

[1.2] CHANDRASEKARAN., Shrivankumar - TIWARI, Rajiv.

Model-based crack identification using full-spectrum. In ASME 2013 Gas Turbine India Conference, GTINDIA 2013, 2013-01-01, pp., SCOPUS

ADCA03 BALLO, Igor. Technical Note: Properties of Air Spring as a Force Generator in Active Vibration Control Systems. In *Vehicle System Dynamics*, 2001, roč. 35, č. 1, s. 67-72.

Ohlasy:

[1.1] ALFI, S. - BRUNI, S. - DIANA, G. - FACCHINETTI, A. - MAZZOLA, L. Active control of airspring secondary suspension to improve ride quality and safety against crosswinds. In PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART F-JOURNAL OF RAIL AND RAPID TRANSIT. ISSN 0954-4097, 2011, vol. 225, no. F1, p. 84-98., WOS

[1.1] EVERS, W.J. - TEERHUIS, A. - VAN DER KNAAP, A. - BESSELINK, I. - NIJMEIJER, H. The Electromechanical Low-Power Active Suspension: Modeling, Control, and Prototype Testing. In JOURNAL OF DYNAMIC SYSTEMS MEASUREMENT AND CONTROL-TRANSACTIONS OF THE ASME. ISSN 0022-0434, JUL 2011, vol. 133, no. 4., WOS

[1.1] FERRARESI, C. - FRANCO, W. - QUAGLIA, G. A novel bi-directional deformable fluid actuator. In PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE. ISSN 0954-4062, OCT 2014, vol. 228, no. 15, p. 2799-2809., WOS

[1.1] GRAF, C. - KIENEKE, R. - MAAS, J. Online Force Estimation for an Active Suspension Control. In 2012 IEEE/ASME INTERNATIONAL CONFERENCE ON ADVANCED INTELLIGENT MECHATRONICS (AIM). 2012, p. 544-549., WOS

[1.1] ZARGAR, B. - FAHIM, A. - JNIFENE, A. Development, validation, and parameter sensitivity analyses of a nonlinear mathematical model of air springs. In JOURNAL OF VIBRATION AND CONTROL. ISSN 1077-5463, OCT 2012, vol. 18, no. 12, p. 1777-1787., WOS

[3] M. EL OUALI - H. CHOLLET - M. SEBES - J. B. AYASSE, "Caracterisation du risque de deraillement et correlation a des essais dynamiques." 2012.

ADCA04 BALOG, Martin - SIMANČÍK, František - BAJANA, Otto - GUILLERMO, Requena. ECAP vs.direct extrusion - Techniques for consolidation of ultra-fine Al particles. In *Materials Science and Engineering A : structural materials*, 2009, vol. 504, no.1-2, p.1-7. (1.806 - IF2008). (2009 - SCOPUS). ISSN 0921-5093.

Ohlasy:

[1.1] BIDULSKA, J. - KVACKAJ, T. - POKORNY, I. - BIDULSKY, R. - GRANDE, M.A. IDENTIFICATION OF THE CRITICAL PORE SIZES IN SINTERED AND ECAPed ALUMINIUM 6XXX ALLOY. In ARCHIVES OF METALLURGY AND MATERIALS. ISSN 1733-3490, 2013, vol. 58, no. 2, p. 371-375., WOS

[1.1] BIDULSKY, R. - BIDULSKA, J. - GRANDE, M.A. Response of the Cr-alloyed PM Steels on Vacuum Sintering and Heat Treatment. In HIGH

TEMPERATURE MATERIALS AND PROCESSES. ISSN 0334-6455, OCT 2013, vol. 32, no. 5, p. 467-473., WOS

[1.1] DERAKHSHANDEH, R. - JAHROMI, A.J. An investigation on the capability of equal channel angular pressing for consolidation of aluminum and aluminum composite powder. In MATERIALS & DESIGN. ISSN 0261-3069, JUN 2011, vol. 32, no. 6, p. 3377-3388., WOS

[1.1] GUPTA, N. - RAVISANKAR, B. - KUMARAN, S. - RAO, T.S. Densification of Al-2024 and Al-2024/Al<sub>2</sub>O<sub>3</sub> Powders by Conventional P/M Route and ECAP: A Comparative Study. In TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS. ISSN 0972-2815, AUG 2012, vol. 65, no. 4, p. 381-386., WOS

[1.1] HAASE, M. - BEN KHALIFA, N. - TEKKAYA, A.E. - MISIOLEK, W.Z. Improving mechanical properties of chip-based aluminum extrudates by integrated extrusion and equal channel angular pressing (iECAP). In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, MAR 30 2012, vol. 539, p. 194-204., WOS

[1.1] HAGHIGHI, R.D. - JAHROMI, S.A.J. - MORESEDGH, A. - KHORSHID, M.T. A Comparison Between ECAP and Conventional Extrusion for Consolidation of Aluminum Metal Matrix Composite. In JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE. ISSN 1059-9495, SEP 2012, vol. 21, no. 9, p. 1885-1892., WOS

[1.1] KOLLO, L. - KALLIP, K. - GOMON, J.K. - KOMMEL, L. Hot Consolidation of Aluminium and Aluminium nano-MMC Powders by Equal Channel Angular Pressing. In MATERIALS SCIENCE-MEDZIAGOTYRA. ISSN 1392-1320, 2012, vol. 18, no. 3, p. 234-237., WOS

[1.1] KVACKAJ, T. - KOVACOVA, A. - KVATKAJ, M. - KOCISKO, R. - LITYNSKA-DOBRZYNSKA, L. - STOYKA, V. - MIHALIKOVA, M. TEM studies of structure in OFHC copper processed by equal channel angular rolling. In MICRON. ISSN 0968-4328, JUN 2012, vol. 43, no. 6, p. 720-724., WOS

[1.1] KVACKAJ, T. - KOVACOVA, A. - KOCISKO, R. - DUTKIEWICZ, J. - LITYNSKA-DOBRZYNSKA, L. - KANSY, J. Relation between microstructural features and mechanical properties in oxygen free high conductivity copper after Equal-Channel Angular Pressing. In KOVOVE MATERIALY-METALLIC MATERIALS. ISSN 0023-432X, 2014, vol. 52, no. 6, p. 337-344., WOS

[1.1] LONG, B. D. - OTHMAN, R. - ZUHAILAWATI, Hussain - UMEMOTO, M. Comparison of Two Powder Processing Techniques on the Properties of Cu-NbC Composites. In ADVANCES IN MATERIALS SCIENCE AND ENGINEERING. ISSN 1687-8434, 2014., WOS

[1.1] MELENDEZ, I.M. - NEUBAUER, E. - ANGERER, P. - DANNINGER, H. - TORRALBA, J.M. Influence of nano-reinforcements on the mechanical properties and microstructure of titanium matrix composites. In COMPOSITES SCIENCE AND TECHNOLOGY. ISSN 0266-3538, MAY 31 2011, vol. 71, no. 8, p. 1154-1162., WOS

[1.1] YU FUXIAO - LIU FANG - ZHAO DAZHI - TOTH, Laszlo S. Microstructure and mechanical properties of Al-3Fe alloy processed by equal channel angular extrusion. In 6TH INTERNATIONAL CONFERENCE ON NANOMATERIALS BY SEVERE PLASTIC DEFORMATION (NANOSPD6). ISSN 1757-8981, 2014, vol. 63., WOS

- [1.2] AKATA, H.E. Application of separated die design to production of ECAP dies. *Advanced Materials Research*, 2012, vol. 445, p. 120-124., SCOPUS
- [1.2] Tokarski, T. The effect of plastic consolidation parameters on the microstructure and mechanical properties of various aluminium powders. In *Materials Science Forum*. ISSN 0255-5476, 2011, vol. 674, pp. 141-146., SCOPUS
- [1.2] Xue, K.M. - Wang, X.X. - Li, P. - Wang, C. - Zhang, X. Numerical simulation and experiment of pure molybdenum powder sintered material with porosities during ECAP. In *Zhongguo Youse Jinshu Xuebao/Chinese Journal of Nonferrous Metals*. ISSN 1004-0609, 2011, vol. 21, no. 1, pp. 198-204., SCOPUS
- [3.1] BULZAK, T. Analiza stanu naprężenia i odkształcenia w procesie wyciskania śrubowego dla różnych współczynników wydłużenia. In *RUDY I METALE NIEZELAZNE RECYKLING*. ISSN 0035-9696, 2014, vol. 9, p. 110-114.

ADCA05 BALOG, Martin - SIMANČÍK, František - WALCHER, Martin - RAJNER, Walter - POLETTI, Cecilia. Extruded Al-Al<sub>2</sub>O<sub>3</sub> composites formed in situ during consolidation of ultrafine Al powders: Effect of the powder surface area. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*, 2011, vol.529, p.131-137. (2.101 - IF2010). (2011 - Current Contents). ISSN 0921-5093.

Ohlasy:

- [1.1] ABDOLLAHI, Alireza - ALIZADEH, Ali - BAHARVANDI, Hamid Reza. Dry sliding tribological behavior and mechanical properties of Al<sub>20</sub>24-5 wt.%B<sub>4</sub>C nanocomposite produced by mechanical milling and hot extrusion. In *MATERIALS & DESIGN*. ISSN 0261-3069, MAR 2014, vol. 55, p. 471-481., WOS
- [1.1] BIDULSKA, J. - KVACKAJ, T. - POKORNY, I. - BIDULSKY, R. - GRANDE, M. Actis. IDENTIFICATION OF THE CRITICAL PORE SIZES IN SINTERED AND ECAPed ALUMINIUM 6XXX ALLOY. In *ARCHIVES OF METALLURGY AND MATERIALS*. ISSN 1733-3490, 2013, vol. 58, no. 2, pp. 371-375., WOS
- [1.1] CASATI, R. - WEI, X. - XIA, K. - DELLASEGA, D. - TUISSI, A. - VILLA, E. - VEDANI, M. Mechanical and functional properties of ultrafine grained Al wires reinforced by nano-Al<sub>2</sub>O<sub>3</sub> particles. In *MATERIALS & DESIGN*. ISSN 0261-3069, DEC 2014, vol. 64, p. 102-109., WOS
- [1.1] LE, G.M. - GODFREY, A. - HANSEN, N. - LIU, W. - WINTHER, G. - HUANG, X. Influence of grain size in the near-micrometre regime on the deformation microstructure in aluminium. In *ACTA MATERIALIA*. ISSN 1359-6454, NOV 2013, vol. 61, no. 19, p. 7072-7086., WOS

ADCA06 BALOG, Martin - KRÍŽIK, Peter - NOSKO, Martin - HÁJOVSKÁ, Zuzana - CASTRO RIGLOS, Maria Victoria - RAJNER, Walter - LIU, De-Shin - SIMANČÍK, František. Forged HITEMAL: Al-based MMCs strengthened with nanometric thick Al<sub>2</sub>O<sub>3</sub> skeleton. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*, 2014, vol. A 613, p. 82-90. (2.409 - IF2013). (2014 - Current Contents). ISSN 0921-5093.

Ohlasy:

- [1.1] CASATI, R. - WEI, X. - XIA, K. - DELLASEGA, D. - TUISSI, A. -

VILLA, E. - VEDANI, M. Mechanical and functional properties of ultrafine grained Al wires reinforced by nano-Al<sub>2</sub>O<sub>3</sub> particles. In MATERIALS & DESIGN. ISSN 0261-3069, DEC 2014, vol. 64, p. 102-109., WOS  
 [3.1] MAKARENKO, D. N. Quality management of sintered aluminum powder (SAP) composite alloy. IN TECHNOLOGY AUDIT AND PRODUCTION RESERVES. Mechanical Engineering. Energetics and energy saving. Processes and equipment of food and chemical industries. ISSN 2312-8372, 6 (2014), pp. 64-68.

ADCA07 BALOG, Martin - YU, P. - QIAN, M. - BEHULOVA, M. - ŠVEC, Peter - CICKA, R. Nanoscaled Al-AlN composites consolidated by equal channel angular pressing (ECAP) of partially in situ nitrided Al powder. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*, 2013, vol. 562, p. 190-195. (2.108 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0921-5093.

Ohlasy:

[1.1] YANG, W.W. - GUO, Z.M. - GUO, L.C. - CAO, H.Q. - LUO, J. - YE, A.P. In situ fabrication and properties of AlN dispersion strengthened 2024 aluminum alloy. In INTERNATIONAL JOURNAL OF MINERALS METALLURGY AND MATERIALS. ISSN 1674-4799, 2014, vol. 21, no. 12, p. 1228-1232., WOS

[3] MUSA, M. S. - SCHAUPERL, Z. ECAP – New consolidation method for production of aluminium matrix composites with ceramic reinforcement. In PROCESSING AND APPLICATION OF CERAMICS. ISSN: 18206131, Vol. 7 (2013), p. 63–68.

ADCA08 BALOG, Martin - KŘÍŽIK, Peter - YAN, M. - SIMANČÍK, František - SCHAFFER, G.B. - QUIAN, M. SAP-like ultrafine-grained Al composites dispersion strengthened with nanometric AlN. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*, 2013, vol. A 588, p.181-187. (2.108 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0921-5093.

Ohlasy:

[1.2] XU, Yanlong - GUO, Zhimeng - LUO, Ji - YANG, Weiwei - DONG, Ran - YU, Haihua. The effect of sintering process on the microstructure and properties of 316L stainless steel. In Fenmo Yejin Jishu/Powder Metallurgy Technology. ISSN 10013784, 2014-01-01, 32, 5, pp. 378-382 and 395., SCOPUS

ADCA09 BALOG, Martin - POLETTI, Cecilia - SIMANČÍK, František - WALCHER, Martin - RAJNER, Walter. The effect of native Al<sub>2</sub>O<sub>3</sub> skin disruption on properties of fine Al powder compacts. In *Journal of Alloys and Compounds*, 2011, vol. 509S, june, p. S235-S238. (2.138 - IF2010). (2011 - Current Contents). ISSN 0925-8388.

Ohlasy:

[1.1] BAZARNIK, P. - LEWANDOWSKA, M. - ANDRZEJCZUK, M. - KURZYDŁOWSKI, K.J. The strength and thermal stability of Al-5Mg alloys nano-engineered using methods of metal forming. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, OCT 30 2012, vol. 556, p. 134-139., WOS

[1.1] CASATI, R. - BONOLLO, F. - DELLASEGA, D. - FABRIZI, A. -

TIMELLI, G. - TUISSI, A. - VEDANI, M. Ex situ Al-Al<sub>2</sub>O<sub>3</sub> ultrafine grained nanocomposites produced via powder metallurgy. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, DEC 5 2014, vol. 615, p. S386-S388., WOS

[1.1] CASATI, R. - WEI, X. - XIA, K. - DELLASEGA, D. - TUISSI, A. - VILLA, E. - VEDANI, M. Mechanical and functional properties of ultrafine grained Al wires reinforced by nano-Al<sub>2</sub>O<sub>3</sub> particles. In MATERIALS & DESIGN. ISSN 0261-3069, DEC 2014, vol. 64, p. 102-109., WOS

[1.1] KAI, X.Z. - LI, Z.Q. - FAN, G.L. - GUO, Q. - TAN, Z.Q. - ZHANG, W.L. - SU, Y.S. - LU, W.J. - MOON, W.J. - ZHANG, D. Strong and ductile particulate reinforced ultrafine-grained metallic composites fabricated by flake powder metallurgy. In SCRIPTA MATERIALIA. ISSN 1359-6462, APR 2013, vol. 68, no. 8, p. 555-558., WOS

[1.1] LE, G.M. - GODFREY, A. - HANSEN, N. Structure and strength of aluminum with sub-micrometer/micrometer grain size prepared by spark plasma sintering. In MATERIALS & DESIGN. ISSN 0261-3069, AUG 2013, vol. 49, p. 360-367., WOS

[1.1] LIN, Yaojun - HU, Pengfei - WU, Bo. Micrometric grained Al synthesized via quasi-hydrostatic ultra-high pressure consolidation of micrometric Al powders. In MATERIALS LETTERS. ISSN 0167-577X, SEP 1 2014, vol. 130, p. 299-302., WOS

[1.1] VELGOSOVA, Oksana - BESTERCI, Michal - IVAN, Jozef - SUELLEIOVA, Katarina. Influence of technological factors on dispersion strengthened materials deformation mechanism studied by 'in-situ tensile test in SEM'. In INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY. ISSN 0268-1900, 2014, vol. 49, no. 2-3, SI, p. 129-159., WOS

[1.2] FAN, Genlian - KAI, Xizhou - LI, Zhiqiang - GUO, Qiang - SU, Yishi - XIONG, Dingbang - MOON, Wonjin - ZHANG, Di. An approach to improve the tensile ductility of particle reinforced ultrafine-grained metallic composite by nano-dispersion toughening. In 8th Pacific Rim International Congress on Advanced Materials and Processing 2013, PRICM 8, 2013-01-01, 2, pp. 1379-1385., SCOPUS

[3.1] KOLI, D. K. - AGNIHOTRI, G. - PUROHIT, R. A review on properties, behaviour and processing methods for Al-nano Al<sub>2</sub>O<sub>3</sub> composites. In PROCEDIA MATERIALS SCIENCE. ISSN: 2211-8128, 2014, vol. 6, p. 567-589.

ADCA10 BERTOK, Tomas - SEDIVA, A. - KATRLIK, Jaroslav - GEMEINER, Pavol - MIKULA, Milan - NOSKO, Martin - TKÁČ, Ján. Label-free detection of glycoproteins by the lectin biosensor down to attomolar level using gold nanoparticles. In *Talanta*, 2013, vol. 108, p. 11-18. (3.498 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0039-9140.

Ohlasy:

[1.1] BAI, H.H. - PAN, Y.T. - TONG, W. - ZHANG, W.J. - REN, X.J. - TIAN, F. - PENG, B. - WANG, X. - ZHANG, Y.J. - DENG, Y.L. - QIN, W.J. - QIAN, X.H. Graphene based soft nanoreactors for facile "one-step" glycan enrichment and derivatization for MALDI-TOF-MS analysis. In *TALANTA*. ISSN 0039-9140, DEC 15 2013, vol. 117, p. 1-7., WOS

[1.1] BHATT, K.D. - VYAS, D.J. - MAKWANA, B.A. - DARJEE, S.M. - JAIN, V.K. Highly stable water dispersible calix[4]pyrrole octa-hydrazide

protected gold nanoparticles as colorimetric and fluorometric chemosensors for selective signaling of Co(II) ions. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, MAR 5 2014, vol. 121, p. 94-100., WOS

[1.1] CHIU, W.C. - HUANG, C.C. Combining Fibrinogen-Conjugated Gold Nanoparticles with a Cellulose Membrane for the Mass Spectrometry-Based Detection of Fibrinolytic-Related Proteins. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, JUL 16 2013, vol. 85, no. 14, p. 6922-6929., WOS

[1.1] LUO, P. - LIU, Y. - XIA, Y. - XU, H.J. - XIE, G.M. Aptamer biosensor for sensitive detection of toxin A of Clostridium difficile using gold nanoparticles synthesized by Bacillus stearothermophilus. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, APR 15 2014, vol. 54, p. 217-221., WOS

[1.1] PANDEY, B. - BHATTARAI, J.K. - PORNSURIYASAK, P. - FUJIKAWA, K. - CATANIA, R. - DEMCHENKO, A.V. - STINE, K.J. Square-wave voltammetry assays for glycoproteins on nanoporous gold. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, MAR 15 2014, vol. 717, p. 47-60., WOS

[1.1] SHAH, A.K. - HILL, M.M. - SHIDDIKY, M.J.A. - TRAU, M. Electrochemical detection of glycan and protein epitopes of glycoproteins in serum. In ANALYST. ISSN 0003-2654, NOV 21 2014, vol. 139, no. 22, p. 5970-5976., WOS

[1.1] SHUMYANTSEVA, V.V. - SUPRUN, E.V. - BULKO, T.V. - ARCHAKOV, A.I. Electrochemical methods for detection of post-translational modifications of proteins. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, NOV 15 2014, vol. 61, p. 131-139., WOS

[1.1] SILVA, M.L.S. - GUTIERREZ, E. - RODRIGUEZ, J.A. - GOMES, C. - DAVID, L. Construction and validation of a Sambucus nigra biosensor for cancer-associated STn antigen. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, JUL 15 2014, vol. 57, p. 254-261., WOS

[1.1] SVAROVSKY, S.A. - JOSHI, L. Cancer glycan biomarkers and their detection - past, present and future. In ANALYTICAL METHODS. ISSN 1759-9660, 2014, vol. 6, no. 12, p. 3918-3936., WOS

[1.1] ZHU, B.W. - CAI, L. - HE, X.P. - CHEN, G.R. - LONG, Y.T. Anthraquinonyl glycoside facilitates the standardization of graphene electrodes for the impedance detection of lectins. In CHEMISTRY CENTRAL JOURNAL. ISSN 1752-153X, NOV 25 2014, vol. 8., WOS

[1.2] SHEN, Dongdong - LIU, Yunchun - FANG, Ying - LI, Peng - YANG, Zhousheng. A sensor for glycoproteins based on dendritic gold nanoparticles electrodeposited on a gold electrode and modified with a phenylboronic acid. In Journal of Solid State Electrochemistry. ISSN 14328488, 2014-01-01, 19, 2, pp. 563-568., SCOPUS

ADCA11 BESTERCI, Michal - IVAN, Jozef - PEŠEK, Ladislav - VELGOSOVÁ, Oksana - HVIZDOŠ, Pavol. Damage mechanism of Al-12Al4C3. In *Materials Letters*, 2004, vol. 58, p. 867-870. ISSN 0167-577X.

Ohlasy:

[1.1] SUN, Yong - CUI, Hao - GONG, Li - CHEN, Jian - SHE, Juncong - MA, Yanming - SHEN, Peikang - WANG, Chengxin. Carbon-in-Al4C3 Nanowire Superstructures for Field Emitters. In ACS NANO, 2011, vol.5, no.2, 932-941., WOS

[1.1] SUN, Y. - CUI, H. - GONG, L. - CHEN, Jian - SHEN, P. K. - WANG, C. X. Field nanoemitter: One-dimension Al<sub>4</sub>C<sub>3</sub> ceramics. In NANOSCALE, 2011, vol.3, no.7, 2978-2982., WOS

[1.1] SURESH, M. - SRINIVASAN, A. - RAVI, K. R. - PILLAI, U. T. S. - PAI, B. C. Microstructural refinement and tensile properties enhancement of Mg-3Al alloy using charcoal additions. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 2011, vol.528, no.6, 2502-2508., WOS

[1.2] SAEIDI, Navid - ASHRAFIZADEH, Fakhreddin - NIROUMAND, Behzad - FOROUZAN, Mohammad Reza - BARLAT, Frederic. Damage mechanism and modeling of void nucleation process in a ferrite-martensite dual phase steel. In Engineering Fracture Mechanics. ISSN 00137944, 2014-01-01, 127, pp. 97-103., SCOPUS

ADCA12 BESTERCI, Michal - ŠLESÁR, Milan - KOVÁČ, Ladislav - IVAN, Jozef - ZBIRAL, Johannes - EDTMAIER, Ch. Distribution of Y<sub>2</sub>O<sub>3</sub> particles in the Pt-Y<sub>2</sub>O<sub>3</sub> system determined by STEM. In *Journal of Materials Science Letters*, 2000, vol. 19, no. 2, p. 151-152. (0.474 - IF1999). (2000 - Current Contents). ISSN 0261-8028.

Ohlasy:

[1.1] SEKIDO, Nobuaki - HOSHINO, Akinori - FUKUZAKI, Masahiro - YAMABE-MITARAI, Yoko - MARUKO, Tomohiro. Steady state creep behavior of zirconia dispersion strengthened platinum alloys in medium stress regime. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 2011, vol.528, no.29-30, 8451., WOS

ADCA13 BESTERCI, Michal - IVAN, Jozef - VELGOSOVÁ, Oksana - HVIZDOŠ, Pavol. Influence of Al<sub>4</sub>C<sub>3</sub> particle volume fraction on fracture mechanism in Al-Al<sub>4</sub>C<sub>3</sub> composite. In *Journal of Materials Science*, 2004, vol. 39, no. 3, p.1071-1074. (0.826 - IF2003). (2004 - Current Contents, WOS, SCOPUS). ISSN 0022-2461.

Ohlasy:

[1.1] VOROZHTSOV, S. A. - BUYAKOVA, S. P. - KUL&APOS;KOV, S. N. Synthesis, structure, and phase composition of Al-Al<sub>4</sub>C<sub>3</sub> nanostructured materials. In RUSSIAN JOURNAL OF NON-FERROUS METALS. ISSN 1067-8212, 2012, vol. 53, no. 5, pp. 420., WOS

ADCA14 BESTERCI, Michal - IVAN, Jozef - KOVÁČ, Ladislav. Influence of Al<sub>2</sub>O<sub>3</sub> particles volume fraction on fracture mechanism in the Cu-Al<sub>2</sub>O<sub>3</sub> system. In *Materials Letters*, 2000, vol. 46, no. 2/3, p. 181-184. (0.580 - IF1999). (2000 - Current Contents). ISSN 0167-577X.

Ohlasy:

[1.1] GUO, Xiuhua - SONG, Kexing - LIANG, Shuhua - ZHENG, Cuihua. Thermal expansion behavior of MgO/Cu composite with lower MgO volume fraction. In MATERIALS RESEARCH BULLETIN. ISSN 0025-5408, 2012, vol. 47, no. 11, pp. 3211., WOS

[1.1] LARA-GUEVARA, Alberto - ROJAS-RODRIGUEZ, Ignacio - VELAZQUEZ-HERNANDEZ, Ruben - BERNAL-CORREA, Roberto A. -



SIERRA-GUTIERREZ, Antonio - HERRERA-RAMOS, Andres - RODRIGUEZ-GARCIA, Mario E. Synthesis of Copper-Alumina Composites by Mechanical Milling: An Analysis. In MATERIALS AND MANUFACTURING PROCESSES. ISSN 1042-6914, 2013, vol. 28, no. 2, pp. 157., WOS  
 [1.1] YUE, Chuan-Jun - GU, Li-Ping - SU, Yang - ZHU, Shao-Ping. Synthesis and characterization of Cu/MgO with controllable interface based on Raney Cu by wet-mixing method. In OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS. ISSN 1842-6573, 2014, vol. 8, no. 9-10, pp. 854., WOS

ADCA15 BESTERCI, Michal - IVAN, Jozef - KOVÁČ, Ladislav - WEISSGAERBER, Thomas - SAUER, Christa. Strain and fracture mechanism of Cu-TiC. In *Materials Letters*, 1999, vol. 38, p. 270-274. (1999 - Current Contents). ISSN 0167-577X.

Ohlasy:

[1.1] YUAN, Yi - IWAI, Kazuhiko - WANG, Qiang - MATSUZAKI, Toshiya - WANG, Kai - HE, Ji-cheng. Alignment of Fe-rich Primary Phase in Cu-Fe Alloy Solidified under a High Magnetic Field. In ISI INTERNATIONAL, 2011, vol.51, no.11, 1819., WOS

ADCA16 BESTERCI, Michal - VELGOSOVÁ, Oksana - IVAN, Jozef - KVAČKAJ, Tibor. The mechanism of the failure of the dispersion-strengthened Cu-Al<sub>2</sub>O<sub>3</sub> nanosystem. In *Journal of Materials Science*, 2010, vol. 45, p. 4073-4077. (1.471 - IF2009). (2010 - Current Contents). ISSN 0022-2461.

Ohlasy:

[1.1] LI, X. - SONG, G.P. - BU, F.Y. - XU, B. - LOU, B.Y. - LIN, Z. Preparation of Mo<sub>2</sub>C nanoparticles dispersion-strengthened copper-based composite by EB-PVD. In RARE METALS. ISSN 1001-0521, OCT 2014, vol. 33, no. 5, p. 568-572., WOS

ADCA17 BESTERCI, Michal - IVAN, Jozef. The mechanism of the failure of the dispersion-strengthened Cu-Al<sub>2</sub>O<sub>3</sub> system. In *Journal of Materials Science Letters*, 1998, vol. 17, no. 9, p. 773-776.

Ohlasy:

[1.1] MONSHAT, H. - SERAJZADEH, S. - AKHGAR, J. M. - KAMANKESH, A. Effect of strain path change on mechanical properties and final microstructure of Cu-Al<sub>2</sub>O<sub>3</sub> in equal channel angular pressing. In MATERIALS SCIENCE AND TECHNOLOGY. ISSN 0267-0836, 2013, vol. 29, no. 2, pp. 210., WOS

[1.2] WANG, Y. - YAN, Q. - ZHANG, X. - GE, C. - ZHAO, H. Effect of copper powders on properties of Cu-based friction material. In Cailiao Yanjiu Xuebao/Chinese Journal of Materials Research, 2013, 27, 1, pp. 37-42., SCOPUS

ADCA18 ČAČKO, Jozef - BÍLÝ, Matěj. Simulation of a non-stationary stochastic process with respect to its probability density function. In *Journal of Sound and Vibration*, 1979, vol. 62, no.2, pp.293 - 299. ISSN 0022-460 X.

Ohlasy:

[1.1] BURGAZZI, L. Performance assessment of a passive system as a non-stationary stochastic process. In NUCLEAR ENGINEERING AND DESIGN. ISSN 0029-5493, JUL 2012, vol. 248, p. 301-305., WOS

ADCA19      ČAČKO, Jozef. Simultaneous computer simulation of operational random processes and continual rainflow counting. In *International Journal of Fatigue*, 1992, vol. 14, no. 3, s. 183-188. ISSN 0142-1123.

Ohlasy:

[1.2]      CARPINTERI, Andrea - SPAGNOLI, Andrea - VANTADORI, Sabrina - BAGNI, Cristian. Structural integrity assessment of metallic components under multiaxial fatigue: The C-S criterion and its evolution. In *Fatigue and Fracture of Engineering Materials and Structures*. ISSN 8756758X, 2013-09-01, 36, 9, pp. 870-883., SCOPUS

ADCA20      ČAVOJSKÝ, Miroslav - BALOG, Martin - DVOŘÁK, Jiří - ILLEKOVÁ, Emília - ŠVEC, Peter - KRÍŽIK, Peter - JANICKOVIČ, Dušan - SIMANČÍK, František. Microstructure and properties of extruded rapidly solidified AlCr<sub>4.7</sub>Fe<sub>1.1</sub>Si<sub>0.3</sub> (at.%) alloys. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*, 2012, vol.549, p.233-241. (2.003 - IF2011). (2012 - Current Contents, SCOPUS, WOS). ISSN 0921-5093.

Ohlasy:

[1.1]      DAM, Karel - PRUSA, Filip - VOJTECH, Dalibor. Structural and mechanical characteristics of the Al-23Si-8Fe-5Mn alloy prepared by combination of centrifugal spraying and hot die forging. In *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING*. ISSN 0921-5093, JUL 29 2014, vol. 610, p. 197-202., WOS

[1.1]      DAM, Karel - VOJTECH, Dalibor - PRUSA, Filip. Powder metallurgy Al-6Cr-2Fe-1Ti alloy prepared by melt atomisation and hot ultra-high pressure compaction. In *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING*. ISSN 0921-5093, 2013, vol. 560, no., pp. 705., WOS

[1.1]      DAM, Karel - VOJTECH, Dalibor - PRUSA, Filip. PROPERTIES OF NANOCRYSTALLINE Al-Cr-Fe-Ti ALLOYS PREPARED BY POWDER METALLURGY. In *NANOCON 2012, 4TH INTERNATIONAL CONFERENCE*, 2012, vol., no., pp. 253., WOS

[1.1]      CHLUPOVA, Alice - CHLUP, Zdenek - KUBENA, Ivo. MICROSTRUCTURE EVOLUTION DURING FATIGUE LOADING OF BULK NANOSTRUCTURED ALLOY AL(93)FE(3)CR(2)TI(2). In *NANOCON 2012, 4TH INTERNATIONAL CONFERENCE*, 2012, vol., no., pp. 328., WOS

[1.1]      PRUSA, F. - VOJTECH, D. Mechanical properties and thermal stability of Al-23Si-8Fe-1Cr and Al-23Si-8Fe-5Mn alloys prepared by powder metallurgy. In *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING*. ISSN 0921-5093, 2013, vol. 565, no., pp. 13., WOS

[1.1]      PRUSA, F. - VOJTECH, D. MECHANICAL PROPERTIES AND THERMAL STABILITY OF AISi-X BASED ALLOYS PREPARED BY CENTRIFUGAL ATOMIZATION. In *METAL 2013: 22ND INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS*. 2013, p. 1189-1194., WOS

[1.1]      PRUSA, F. - VOJTECH, D. PROPERTIES OF Al-BASED ALLOYS PREPARED BY CENTRIFUGAL ATOMISATION AND HOT EXTRUSION.

In METAL 2014: 23RD INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS. 2014, p. 1345-1350., WOS  
[1.1] PRUSA, F. - VOJTECH, D. - MICHALCOVA, A. - MAREK, I. Mechanical properties and thermal stability of Al-Fe-Ni alloys prepared by centrifugal atomisation and hot extrusion. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, MAY 6 2014, vol. 603, p. 141-149., WOS

[1.1] STAN, K. - LITYNSKA-DOBRYNSKA, L. - OCHIN, P. - WIERZBICKA-MIERNIK, A. - GORAL, A. - WOJEWODA-BUDKA, J. EFFECT OF ALLOYING ELEMENTS ON MICROSTRUCTURE AND PROPERTIES OF Al-Mn-Fe RIBBON. In ARCHIVES OF METALLURGY AND MATERIALS. ISSN 1733-3490, 2013, vol. 58, no. 2, p. 341-346., WOS  
[1.1] VOJTECH, Dalibor - DAM, Karel - PRUSA, Filip. Highly Thermally Stable Light-Weight Al Based Alloys Prepared by Centrifugal Atomization and Powder Compaction. In METALLOGRAPHY XV. ISSN 0255-5476, 2014, vol. 782, p. 347-352., WOS

[1.2] VODIROVA, M. - NOVAK, P. - VOJTECH, D. Microstructure of rapidly solidified and hot-pressed Al-Fe-X alloys. In MATERIALI IN TEHNOLOGIJE. ISSN 1580-2949, 2014, vol. 48, pp. 349-353., SCOPUS

ADCA21 DANNINGER, Herbert - HAROLD, Ch. - GIERL, Ch. - PONEMAYR, H. - DAXELMUELLER, M. - SIMANČÍK, František - IŽDINSKÝ, Karol. Powder Metallurgy Manufacturing of Carbon-Free precipitation Hardened High Speed Steels. In *Acta Physica Polonica A*, 2010, vol.117, no. 5, p. 825-830. (0.433 - IF2009). (2010 - Current Contents, WOS, SCOPUS). ISSN 1898-794X.

Ohlasy:

[1.1] GALIMBERTI, P. - LAY, S. - ANTONI-ZDZIOBEK, A. Precipitation and age-hardening in the Fe-27Co-8Mo alloy. In INTERMETALLICS. ISSN 0966-9795, 2012, vol. 22, no., pp. 33., WOS

ADCA22 DIERICKX, Dirk - HOUBEN, I - LAPIN, Juraj - DELANNAY, Francis - BIEST VAN DER, O. Dense polycrystalline BaZrO<sub>3</sub> substrates for YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> melt processing. In *Journal of Materials Science Letters*, 1996, roč. 15, č. 18, s. 1573-1576.

Ohlasy:

[1.1] BISEN, Anurag - SATAPATHY, A. - PARIDA, S. - SINHA, E. - ROUT, S. K. - KAR, M. Structural, optical band gap, microwave dielectric properties and dielectric resonant antenna studies of Ba(1-x)La(2x/3)ZrO<sub>3</sub> (0 ≤ x ≤ 0.1) ceramics. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, DEC 5 2014, vol. 615, p. 1006-1012., WOS

[1.1] GANESHRAJ, C. - SANTHOSH, P. N. First-principles study of structural, electronic, vibrational, dielectric and elastic properties of tetragonal Ba<sub>2</sub>YTaO<sub>6</sub>. In JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, OCT 14 2014, vol. 116, no. 14., WOS

[1.1] WANG, Li - HABIBI, M. H. - ELDRIDGE, Jeffrey I. - GUO, S. M. Infrared radiative properties of plasma-sprayed BaZrO<sub>3</sub> coatings. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. ISSN 0955-2219, DEC 2014, vol. 34, no. 15, p. 3941-3949., WOS

ADCA23 DROZD, Zdeněk - TROJANOVÁ, Zuzanka - KÚDELA, Stanislav.

Deformation behaviour of Mg-Li-Al alloys. In *Journal of Alloys and Compounds*, 2004, vol. 378, p. 192-195. ISSN 0925-8388.

Ohlasy:

[1.1] CAO, Peng - ZHANG, Mi Lin - HAN, Wei - DE YAN, Yong - CHEN, Li Jun. Electrochemical Preparation of Mg-Li-Zn-Mn Alloys by Codeposition. In METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE. ISSN 1073-5615, AUG 2011, vol. 42, no. 4, p. 914-920., WOS

[1.1] CUI CHONGLIANG - ZHU TIANLONG - LENG ZHE - WU, Ruizhi - ZHANG, Jinghuai - ZHANG, Milin. EFFECTS OF COMBINED ADDITION OF Y AND Nd ON MICROSTRUCTURE AND TEXTURE AFTER COMPRESSION OF Mg-Li ALLOY AT ROOM TEMPERATURE. In ACTA METALLURGICA SINICA. ISSN 0412-1961, JUN 11 2012, vol. 48, no. 6, p. 725-732., WOS

[1.1] CUI, C.L. - ZHU, T.L. - SUN, J.F. - WU, R.Z. - ZHANG, M.L. Influence of Neodymium on Texture of Single-alpha Mg-Li Alloy after Hot Extrusion. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, MAY 2014, vol. 43, no. 5, p. 1177-1180., WOS

[1.1] HOU, L. - MENG, X. - WU, R. - ZHANG, M. Effect of deformation and heat treatment on microstructure and mechanical properties of Mg-8Li-1Al-0.6Ce alloy. In KOVOVE MATERIALY-METALLIC MATERIALS. ISSN 0023-432X, 2013, vol. 51, no. 1, p. 83-87., WOS

[1.1] HOU, L.G. - WU, R.Z. - LI, J.Q. - ZHANG, J.H. - ZHANG, M.L. - SHANG, Y.C. - QU, Z.K. Effects of hot extrusion on microstructure, texture and mechanical properties of Mg-5Li-3Al-2Zn alloy. In ADVANCES IN MATERIALS AND PROCESSING TECHNOLOGIES XV. ISSN 0255-5476, 2014, vol. 773-774, p. 218-225., WOS

[1.1] CHEN LIJUN - ZHANG MILIN - HAN WEI - YAN YONGDE - CAO PENG. Electrochemical study on preparation of Mg-Li-Yb alloys in LiCl-KCl-KF-MgCl<sub>2</sub>-Yb<sub>2</sub>O<sub>3</sub> melts. In JOURNAL OF RARE EARTHS. ISSN 1002-0721, FEB 2012, vol. 30, no. 2, p. 159-163., WOS

[1.1] KARAMI, M. - MAHMUDI, R. Hot shear deformation constitutive analysis of an extruded Mg-6Li-1Zn alloy. In MATERIALS LETTERS. ISSN 0167-577X, AUG 15 2012, vol. 81, p. 235-238., WOS

[1.1] KARAMI, M. - MAHMUDI, R. The Microstructural, Textural, and Mechanical Properties of Extruded and Equal Channel Angularly Pressed Mg-Li-Zn Alloys. In METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE. ISSN 1073-5623, AUG 2013, vol. 44A, no. 8, p. 3934-3946., WOS

[1.1] KARAMI, M. - MAHMUDI, R. Work hardening behavior of the extruded and equal-channel angularly pressed Mg-Li-Zn alloys under tensile and shear deformation modes. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, JUN 23 2014, vol. 607, p. 512-520., WOS

[1.1] KARAMI, M. - MAHMUDI, R. Hot shear deformation constitutive analysis and processing map of extruded Mg-12Li-1Zn bcc alloy. In MATERIALS & DESIGN. ISSN 0261-3069, JAN 2014, vol. 53, p. 534-539., WOS

[1.1] LIU, Xuhe - WU, Ruizhi - NIU, Zhongyi - ZHANG, Jinghuai -

ZHANG, Milin. Superplasticity at elevated temperature of an Mg-8%Li-2%Zn alloy. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, NOV 15 2012, vol. 541, p. 372-375., WOS

[1.1] LI, Jiqing - QU, Zhikun - WU, Ruizhi - ZHANG, Milin - ZHANG, Jinghuai. Microstructure, mechanical properties and aging behaviors of as-extruded Mg-5Li-3Al-2Zn-1.5Cu alloy. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, APR 25 2011, vol. 528, no. 10-11, p. 3915-3920., WOS

[1.1] LI, Ting-qu - LIU, Yong-bing - CAO, Zhan-yi - CHENG, Li-ren - JIANG, Dong-mei. The creep behaviour of extruded Mg-5Li-3Al-1.5Zn-2RE alloy. In ADVANCED MATERIALS RESEARCH. ISSN 1022-6680, 2011, vol. 213, p. 492-496., WOS

[1.1] LI, X. - YAN, Y.D. - ZHANG, M.L. - XUE, Y. - JI, D.B. - TANG, H. - ZHANG, Z.J. Fabrication of Yb-Rich Mg-Li-Yb Alloys via Co-Reduction of Mg, Li and Yb. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2014, vol. 161, no. 12, p. D704-D711., WOS

[1.1] LI, X. - YAN, Y.D. - ZHANG, M.L. - XUE, Y. - HAN, W. - TANG, H. - ZHOU, Z.P. - YANG, X.N. - ZHANG, Z.J. Electrochemical Preparation of Quarternary Mg-Li-Al-Yb Alloy from Yb<sub>2</sub>O<sub>3</sub> Assisted by AlCl<sub>3</sub> in LiCl-KCl-MgCl<sub>2</sub> Melt. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2014, vol. 161, no. 1, p. D48-D54., WOS

[1.1] MALLICK, Ashis - TUN, Khin Sandar - GUPTA, Manoj. Deformation behaviour of Mg/Y<sub>2</sub>O<sub>3</sub> nanocomposite at elevated temperatures. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, AUG 15 2012, vol. 551, p. 222-230., WOS

[1.1] NIU, Z.Y. - LENG, Z. - ZHANG, J.H. - WU, R.Z. - ZHANG, M.L. Microstructures and mechanical properties of Mg-6Li-6.5Gd-1Dy-2Zn alloys. In ADVANCES IN MATERIALS AND PROCESSING TECHNOLOGIES XV. ISSN 0255-5476, 2014, vol. 773-774, p. 275-280., WOS

[1.1] SHA, Guiying - SUN, Xiaoguang - LIU, Teng - ZHU, Yuhong - YU, Tao. Effects of Sc Addition and Annealing Treatment on the Microstructure and Mechanical Properties of the As-rolled Mg-3Li alloy. In JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY. ISSN 1005-0302, AUG 2011, vol. 27, no. 8, p. 753-758., WOS

[1.1] SHIN, I. - CARTER, E.A. First-principles simulations of plasticity in body-centered-cubic magnesium-lithium alloys. In ACTA MATERIALIA. ISSN 1359-6454, FEB 2014, vol. 64, p. 198-207., WOS

[1.1] SONG, Dalei - JING, Xiaoyan - WANG, Jun - LU, Shanshan - YANG, Piaoping - WANG, Yanli - ZHANG, Milin. Microwave-assisted synthesis of lanthanum conversion coating on Mg-Li alloy and its corrosion resistance. In CORROSION SCIENCE. ISSN 0010-938X, NOV 2011, vol. 53, no. 11, p. 3651-3656., WOS

[1.1] SONG, Dalei - JING, Xiaoyan - WANG, Jun - YANG, Piaoping - WANG, Yanli - ZHANG MILIN. The assembly of ZSM-5 layer on Mg-Li alloy by hot-pressing using silane coupling agent as bond and its corrosion resistance. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, JAN 5 2012, vol. 510, no. 1, p. 66-70., WOS

[1.1] WU LI-BIN - LIU XU-HE - WU RUI-ZHI - CUI CHONG-LIANG -

ZHANG JING-HUAI - ZHANG MI-LIN. Microstructure and tensile properties of Mg-Li-Al-Zn based alloys with Ce addition. In TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA. ISSN 1003-6326, APR 2012, vol. 22, no. 4, p. 779-785., WOS

[1.1] WU, S. K. - CHANG, S. H. - TSIA, W. L. - BOR, H. Y.

Low-frequency damping properties of as-extruded Mg-11.2Li-0.95Al-0.43Zn magnesium alloy. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, JUL 15 2011, vol. 528, no. 18, p. 6020-6025., WOS

[1.1] YANG YAN - PENG XIAODONG - XIE WEIDONG - WEI QUNYI - CHEN GANG - SU ZHONGHUA. Effect of Sr on microstructure and mechanical properties of Mg-9Li-3Al alloy. In ADVANCED STRUCTURAL MATERIALS. ISSN 0255-5476, 2011, vol. 686, p. 84-89., WOS

[1.1] YANG, Y. - PENG, X.D. - WEN, H.M. - WEI, G.B. - XIE, W.D. - LAVERNIA, E.J. Microstructure and mechanical behavior of Mg-10Li-3Al-2.5Sr alloy. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, AUG 12 2014, vol. 611, p. 1-8., WOS

[1.1] YANG, Y. - PENG, X.D. - XIE, W.D. - WEI, G.B. - XU, F. - WEI, Q.Y. Microstructure and Mechanical Behavior of a New alpha plus beta-Type Mg-Li-3Al-2.5Sr Alloy. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, JUN 2014, vol. 43, no. 6, p. 1281-1285., WOS

[1.1] YAO LEI - HAO HAI - JI SHOU-HUA - FANG CAN-FENG - ZHANG XING-GUO. Effects of ultrasonic vibration on solidification structure and properties of Mg-8Li-3Al alloy. In TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA. ISSN 1003-6326, JUN 2011, vol. 21, no. 6, p. 1241-1246., WOS

[1.1] ZHANG, Mi Lin - CAO, Peng - HAN, Wei - YAN, Yong De - CHEN, Li Jun. Study on the preparation of Mg-Li-Ag Alloys by electrochemical deposition from LiCl-KCl-MgCl<sub>2</sub>-AgCl Melts. In RUSSIAN JOURNAL OF ELECTROCHEMISTRY. ISSN 1023-1935, NOV 2012, vol. 48, no. 11, p. 1065-1069., WOS

[1.1] ZHOU, W.R. - ZHENG, Y.F. - LEEFLANG, M.A. - ZHOU, J. Mechanical property, biocorrosion and in vitro biocompatibility evaluations of Mg-Li-(Al)-(RE) alloys for future cardiovascular stent application. In ACTA BIOMATERIALIA. ISSN 1742-7061, NOV 2013, vol. 9, no. 10, p. 8488-8498., WOS

[1.2] BIN, J. - XU-HE, L. - RUI-ZHI, W. - MI-LIN, Z. - ZHI-KUN, Q. - JIA-JUN, Z. - CHUN-FENG, W. Microstructures and mechanical properties of various Mg-Li wrought alloys. In Journal of Shanghai Jiaotong University (Science), 2012, 17, 3, pp. 297-300., SCOPUS

[1.2] CUI, Xiaopeng - ZHANG, Xiaobin - HU, Jinghui - GUO, Buchao. Hot compressive deformation of Mg-4Al-0.29Mn-0.97Gd alloy. In Tezhong Zhuzao Ji Youse Hejin/Special Casting and Nonferrous Alloys. ISSN 10012249, 2014-01-01, 34, 6, pp. 669-672., SCOPUS

[1.2] KANG, Z. - KONG, J. - HOU, W. - LI, Y. Microstructure and mechanical properties of two-phase Mg-10.73Li-4.49Al-0.52Y alloy processed by ECAP at different routes. In Cailiao Yanjiu Xuebao/Chinese Journal of

Materials Research. ISSN 1005-3093, 2011, vol. 25, no. 5, p. 500-508., SCOPUS

[1.2] LIU, B. - ZHANG, J. - NIU, Z. - LI, J. Effect of La-rich misch metal on microstructure and mechanical properties of as-extruded Mg-14Li-3Al alloy. In Advanced Materials Research, 2012, 391-392, pp. 32-36., SCOPUS

[1.2] LIU, Mei Duo - PEI, Di - YIN, Ting Ting. The process of zinc immersion on the surface of Mg-Li alloy. In Advanced Materials Research. ISSN 10226680, 2014-01-01, 1004-1005, pp. 751-756., SCOPUS

[1.2] SONG, D. - JING, X. - WANG, J. - YANG, P. - WANG, Y. - ZHANG, M. The assembly of ZSM-5 layer on Mg-Li alloy by hot-pressing using silane coupling agent as bond and its corrosion resistance. In Journal of Alloys and Compounds. ISSN 09258388, 2011, vol. 510, no. 1, p. 66-70., SCOPUS

[1.2] YANG, Yan - PENG, Xiaodong - LI, Junchen - XIE, Weidong - WEI, Guobing - WEI, Qunyi. Microstructure and mechanical properties of extruded Mg-9Li-3Al-xSr alloys. In Chongqing Daxue Xuebao/Journal of Chongqing University. ISSN 1000582X, 2013-12-01, 36, 12, pp. 103-110., SCOPUS

[1.2] ZHANG, Kun Yu - ZHANG, Kun Yu - LIU, Xing Hai - MA, Zi Zai - WEI, Ai Li - LIANG, Wei - LIANG, Wei. Effect of heat treatment on microstructure and mechanical properties of Mg-10.83Li-2.62Al-0.34Si alloy. In Cailiao Rechuli Xuebao/Transactions of Materials and Heat Treatment. ISSN 10096264, 2014-01-01, 35, 4, pp. 96-100., SCOPUS

ADCA24 DROZD, Zdeněk - TROJANOVÁ, Zuzanka - KÚDELA, Stanislav. Degradation of the mechanical properties of a Mg-Li-Al composite at elevated temperatures studied by the stress relaxation technique. In *Materials Science and Engineering. A. Structural Materials*, 2007, vol. A462, p. 234-238. (1.490 - IF2006). (2007 - Current Contents, WOS, SCOPUS). ISSN 0921-5093.

Ohlasy:

[1.1] KIM, J.H. - BYUN, T.S. - HOELZER, D.T. Stress relaxation behavior of nanocluster-strengthened ferritic alloy at high temperatures. In JOURNAL OF NUCLEAR MATERIALS. ISSN 0022-3115, JUN 2012, vol. 425, no. 1-3, p. 147-155., WOS

[1.1] LI, X. - YAN, Y.D. - ZHANG, M.L. - XUE, Y. - HAN, W. - TANG, H. - ZHOU, Z.P. - YANG, X.N. - ZHANG, Z.J. Electrochemical Preparation of Quarternary Mg-Li-Al-Yb Alloy from Yb<sub>2</sub>O<sub>3</sub> Assisted by AlCl<sub>3</sub> in LiCl-KCl-MgCl<sub>2</sub> Melt. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2014, vol. 161, no. 1, p. D48-D54., WOS

ADCA25 DUSZA, Ján - MORGIEL, Jerzy - DUSZOVÁ, Annamária - KVETKOVÁ, Lenka - NOSKO, Martin - KUN, Péter - BALÁZSI, Csaba. Microstructure and fracture toughness of Si<sub>3</sub>N<sub>4</sub>+graphene platelet composites. In *Journal of the European Ceramic Society*, 2012, vol. 32, p. 3389-3397. (2.353 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 0955-2219.

Ohlasy:

[1.1] BARADARAN, S. - MOGHADDAM, E. - BASIRUN, W.J. - MEHRALI, M. - SOOKHAKIAN, M. - HAMDI, M. - MOGHADDAM, M.R.N. - ALIAS, Y. Mechanical properties and biomedical applications of a nanotube hydroxyapatite-reduced graphene oxide composite. In Carbon, 2014, 69, pp. 32-45., WOS

[1.1] FAN, Yuchi - ESTILI, Mehdi - IGARASHI, Ginga - JIANG, Wan - KAWASAKI, Akira. The effect of homogeneously dispersed few-layer graphene

- on microstructure and mechanical properties of Al<sub>2</sub>O<sub>3</sub> nanocomposites. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. ISSN 0955-2219, 2014, vol. 34, no. 2, pp. 443., WOS
- [1.1] CHEN, Binbin - LIU, Xia - ZHAO, Xiaoqin - WANG, Zhao - WANG, Lianjun - JIANG, Wan - LI, Jianlin. Preparation and properties of reduced graphene oxide/fused silica composites. In CARBON. ISSN 0008-6223, 2014, vol. 77, no., pp. 66., WOS
- [1.1] CHEN, Ya-Fei - BI, Jian-Qiang - WANG, Wei-Li - ZHAO, Yan - YOU, Guang-Lei - YIN, Chong-Long - BAI, Yu-Jun. Toughening in boron nitride nanotubes/silicon nitride composites. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, 2014, vol. 590, no., pp. 16., WOS
- [1.1] CHEN, Ya-Fei - BI, Jian-Qiang - YIN, Chong-Long - YOU, Guang-Lei. Microstructure and fracture toughness of graphene nanosheets/alumina composites. In CERAMICS INTERNATIONAL. ISSN 0272-8842, 2014, vol. 40, no. 9, pp. 13883., WOS
- [1.1] LI JIAN-LIN - CHEN BIN-BIN - ZHANG WEN - WANG LIAN-JUN - JIANG WAN. Recent Progress in Ceramic/Graphene Bulk Composites. In JOURNAL OF INORGANIC MATERIALS. ISSN 1000-324X, 2014, vol. 29, no. 3, pp. 225., WOS
- [1.1] LIU, Jian - YAN, Haixue - REECE, Mike J. - JIANG, Kyle. Toughening of zirconia/alumina composites by the addition of graphene platelets. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. ISSN 0955-2219, 2012, vol. 32, no. 16, pp. 4185., WOS
- [1.1] LIU, Jian - YAN, Haixue - JIANG, Kyle. Mechanical properties of graphene platelet-reinforced alumina ceramic composites. In CERAMICS INTERNATIONAL. ISSN 0272-8842, 2013, vol. 39, no. 6, pp. 6215., WOS
- [1.1] LI, Hongqing - XIE, Youtao - LI, Kai - HUANG, Liping - HUANG, Shansong - ZHAO, Bizeng - ZHENG, Xuebin. Microstructure and wear behavior of graphene nanosheets-reinforced zirconia coating. In CERAMICS INTERNATIONAL. ISSN 0272-8842, 2014, vol. 40, no. 8, pp. 12821., WOS
- [1.1] MEHRALI, Mehdi - MOGHADDAM, Ehsan - SHIRAZI, Seyed Farid Seyed - BARADARAN, Saeid - MEHRALI, Mohammad - LATIBARI, Sara Tahan - METSELAAR, Hendrik Simon Cornelis - KADRI, Nahrizul Adib - ZANDI, Keivan - ABU OSMAN, Noor Azuan. Synthesis, Mechanical Properties, and in Vitro Biocompatibility with Osteoblasts of Calcium Silicate-Reduced Graphene Oxide Composites. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2014, vol. 6, no. 6, pp. 3947., WOS
- [1.1] NIETO, Andy - KUMAR, Amit - LAHIRI, Debrupa - ZHANG, Cheng - SEAL, Sudipta - AGARWAL, Arvind. Oxidation behavior of graphene nanoplatelet reinforced tantalum carbide composites in high temperature plasma flow. In CARBON. ISSN 0008-6223, 2014, vol. 67, no., pp. 398., WOS
- [1.1] NIETO, A. - LAHIRI, D. - AGARWAL, A. Nanodynamic mechanical behavior of graphene nanoplatelet-reinforced tantalum carbide. In Scripta Materialia, 2013, 69, 9, pp. 678-681., WOS
- [1.1] NIETO, A. - LAHIRI, D. - AGARWAL, A. Graphene NanoPlatelets reinforced tantalum carbide consolidated by spark plasma sintering. In Materials Science and Engineering A, 2013, 582, pp. 338-346., WOS
- [1.1] PORWAL, Harshit - TATARKO, Peter - GRASSO, Salvatore - HU,



Chunfeng - BOCCACCINI, Aldo R. - DLOUHY, Ivo - REECE, Mike J. Toughened and machinable glass matrix composites reinforced with graphene and graphene-oxide nano platelets. In SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS. ISSN 1468-6996, 2013, vol. 14, no. 5, pp., WOS [1.1] RAMIREZ, Cristina - VEGA-DIAZ, Sofia M. - MORELOS-GOMEZ, Aaron - FIGUEIREDO, Filipe M. - TERRONES, Mauricio - OSENDI, Maria Isabel - BELMONTE, Manuel - MIRANZO, Pilar. Synthesis of conducting graphene/Si<sub>3</sub>N<sub>4</sub> composites by spark plasma sintering. In CARBON. ISSN 0008-6223, 2013, vol. 57, no., pp. 425., WOS [1.1] RAMIREZ, Cristina - OSENDI, Maria Isabel. Toughening in ceramics containing graphene fillers. In CERAMICS INTERNATIONAL. ISSN 0272-8842, 2014, vol. 40, no. 7, pp. 11187., WOS [1.1] RINCON, Acacio - MORENO, Rodrigo - CHINELATTO, Adriana S. A. - GUTIERREZ, Carlos F. - RAYON, Emilio - DOLORES SALVADOR, Maria - BORRELL, Amparo. Al<sub>2</sub>O<sub>3</sub>-3YTZP-Graphene multilayers produced by tape casting and spark plasma sintering. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. ISSN 0955-2219, 2014, vol. 34, no. 10, pp. 2427., WOS [1.1] RINCÓN, A. - CHINELATTO, A.S.A. - MORENO, R. Tape casting of alumina/zirconia suspensions containing graphene oxide. In Journal of the European Ceramic Society, 2014, 34, 7, pp. 1819-1827., WOS [1.1] SHIN, J.-H. - HONG, S.-H. Fabrication and properties of reduced graphene oxide reinforced yttria-stabilized zirconia composite ceramics. In Journal of the European Ceramic Society, 2014, 34, 5, pp. 1297-1302., WOS [1.1] ZHAO, Y. - SUN, K.-N. - WANG, W.-L. - WANG, Y.-X. - SUN, X.-L. - LIANG, Y.-J. - SUN, X.-N. - CHUI, P.-F. Microstructure and anisotropic mechanical properties of graphene nanoplatelet toughened biphasic calcium phosphate composite. In Ceramics International, 2013, 39, 7, pp. 7627-7634., WOS [1.2] LIU, Jian - LI, Zheng - YAN, Haixue - JIANG, Kyle. Spark plasma sintering of alumina composites with graphene platelets and silicon carbide nanoparticles. In Advanced Engineering Materials. ISSN 14381656, 2014-01-01, 16, 9, pp. 1111-1118., SCOPUS [1.2] ZHANG, L. - ZHANG, X. G. - CHEN, Yao - SU, J. N. - LIU, W. W. - ZHANG, Taihua - QI, F. - WANG, Y. G. Interfacial stress transfer in a graphene nanosheet toughened hydroxyapatite composite. In Applied Physics Letters. ISSN 00036951, 2014-10-20, 105, 16, pp., SCOPUS [1.2] ZHAO, Y. - BI, J.-Q. - CHENG, F.-M. - LIU, Y. - SUN, K.-N. Microstructure and mechanical properties of biphasic calcium phosphate composites toughened by graphene nanoplate with different dispersant. In Rengong Jingti Xuebao/Journal of Synthetic Crystals, 2013, 42, 5, pp. 927-932., SCOPUS

ADCA26 GRANČIČ, B. - MIKULA, Marian - HRUBÁ, L. - GREGOR, M. - ŠTEFEČKA, M. - CSUBA, Adrian - DOBROČKA, Edmund - PLECENIK, Andrej - KÚŠ, P. The influence of deposition parameters on TiB<sub>2</sub> thin films prepared by DC magnetron sputtering. In Vacuum, 2005, vol. 80, p. 174-177. ISSN 0042-207X. Ohlasy: [1.1] SILVA, F.J.G. - CASAIS, R.C.B. - MARTINHO, R.P. - BAPTISTA, A.P.M. Mechanical and Tribological Characterization of TiB<sub>2</sub> Thin Films. In JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY. ISSN

1533-4880, DEC 2012, vol. 12, no. 12, p. 9187-9194., WOS  
 [1.2] GU, Wen Cui - GU, Wen Cui - LI, Shou De - LI, Shou De - WANG, Huai Yong - CHEN, Chun Li - LI, Peng - HUANG, Feng. Influence of bias voltage on microstructure and properties of magnetron sputtering TiB<sub>2</sub> coating. In *Hangkong Cailiao Xuebao/Journal of Aeronautical Materials*. ISSN 10055053, 2014-01-01, 34, 5, pp. 37-42., SCOPUS

ADCA27 HADRY, Azhar Ali - SCHLOSSER, Peter - DURINA, Pavol - MIKULA, Marian - TOMÁŠEK, Milan - PLECENÍK, T. - ROCH, T. - PIDÍK, Andrej - ŠTEFEČKA, M. - NOSKOVIČ, Jaroslav - ZÁHORAN, Miroslav - KUS, Peter - PLECENÍK, Andrej. Hydrogen gas sensors based on nanocrystalline TiO<sub>2</sub> thin films. In *Central European Journal of Physics*, 2011, vol.9, no.5, p. 1351-1356. (0.691 - IF2010). (2011 - Current Contents). ISSN 1895-1082.

Ohlasy:

[1.1] HASHEMIAN, M.A. - KARPOV, E.G. Hydrogen sensing behavior of Pt-coated mesoporous anodic titania. In *MATERIALS CHEMISTRY AND PHYSICS*. ISSN 0254-0584, DEC 15 2014, vol. 148, no. 3, p. 579-584., WOS

[1.1] CHEONG, Y.L. - YAM, F.K. - OOI, Y.W. - HASSAN, Z. Room-temperature synthesis of nanocrystalline titanium dioxide via electrochemical anodization. In *MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING*. ISSN 1369-8001, OCT 2014, vol. 26, p. 130-136., WOS

[1.2] ANTROPOV, I.M. - DEMIDOVICH, G.B. - KOZLOV, S.N. Sensitivity of porous silicon-ferromagnetic metal composites to molecular hydrogen adsorption. In *Technical Physics Letters*, 2012, vol. 38, no. 5, p. 450-451., SCOPUS

[1.2] CHOMKITICHAI, W. - NINSONTHI, H. - LIEWHIRAN, C. - WISITSORAAT, A. - SRIWICHAI, S. - PHANICHPHANT, S. Flame-made Pt-loaded TiO<sub>2</sub> thin films and their application as H<sub>2</sub> gas sensors. In *Journal of Nanomaterials*, 2013, 2013, pp., SCOPUS

[1.2] KOSC, I. - HOTOVY, I. - REHACEK, V. - GRIESSELER, R. - PREDANOCY, M. - WILKE, M. - SPIESS, L. Sputtered TiO<sub>2</sub> thin films with NiO additives for hydrogen detection. In *Applied Surface Science*, 2013, 269, pp. 110-115., SCOPUS

[1.2] LING, Cuicui - LING, Cuicui - XUE, Qingzhong - XUE, Qingzhong - HAN, Zhide - ZHANG, Zhongyang - DU, Yonggang - DU, Yonggang - LIU, Yanmin - YAN, Zifeng. High hydrogen response of Pd/TiO<sub>2</sub>/SiO<sub>2</sub>/Si multilayers at room temperature. In *Sensors and Actuators, B: Chemical*. ISSN 09254005, 2014-12-15, 205, pp. 255-260., SCOPUS

[1.2] ROSU, M.-C. - SUCIU, R.-C. - MIHET, M. - BRATU, I. Physical-chemical characterization of titanium dioxide layers sensitized with the natural dyes carmine and morin. In *Materials Science in Semiconductor Processing*, 2013, 16, 6, pp. 1551-1557., SCOPUS

[1.2] ZHANG, Mao Lin - NING, Tao - ZHANG, Shuyuan - LI, Zhimin - CAO, Quanxi - YUAN, Zhanheng. Comparison of Pt and Pd modified TiO<sub>2</sub> gas sensors. In *Medziagotyra*. ISSN 13921320, 2014-01-01, 20, 4, pp. 375-380., SCOPUS

ADCA28 HALAMKA, M. - KAVECKÝ, Štefan - DOČEKAL, B. - MADEJOVÁ, Jana - ŠAJGALÍK, Pavol. Synthesis of high purity Si<sub>3</sub>N<sub>4</sub> and SiC powders by CVD method. In *Ceramics-Silikáty*, 2003, vol. 47, no. 3, p. 88-93. ISSN 0862-5468.

Ohlasy:

[1.1] CHIU, Hsien T. - SUKACHONMAKUL, Tanapon - WANG, Chen H. - WATTANAKUL, Karnthidaporn - KUO, Ming T. - WANG, Yu H. Effect of pyrolysis atmospheres on the morphology of polymer-derived silicon oxynitrocarbide ceramic films coated aluminum nitride surface and the thermal conductivity of silicone rubber composites. In *APPLIED SURFACE SCIENCE*. ISSN 0169-4332, 2014, vol. 292, no., pp. 319., WOS

[1.2] OMIDI, Zahra - BAKHSHI, Saeed Reza - GHASEMI, Ali. Evaluation of processing parameters effects on the formation of Si<sub>3</sub>N<sub>4</sub> wires synthesized by means of ball milling and nitridation route. In *Advanced Powder Technology*. ISSN 09218831, 2014-01-01, 25, 6, pp. 1667-1671., SCOPUS

[1.2] OMIDI, Z. - GHASEMI, A. - BAKHSHI, S.R. The influence of processing parameters on the fabrication of Si<sub>3</sub>N<sub>4</sub> wires. In *Journal of Sol-Gel Science and Technology*, 2012, 64, 1, pp. 245-250., SCOPUS

ADCA29 HESABI, Razavi Z. - SANJARI, M. - SIMCHI, A. - REIHANI, Seyed S.M. - SIMANČÍK, František. Effect of alumina nanoparticles on hot strength and deformation behaviour of Al-5vol% Al<sub>2</sub>O<sub>3</sub> nanocomposite: Experimental study and modelling. In *Journal of Nanoscience and Nanotechnology*, 2010, vol. 10, no. 4, p.2641-2645. (1.435 - IF2009). (2010 - Current Contents). ISSN 1533-4880.

Ohlasy:

[1.2] HEIDARI, A. - HEIDARI, N. - CHEGINI, M.G. - AMIRI, R. - JAHROMI, F.K. - GHORBANI, M. - HEIDARI, A. A new method for synthesis of nanocomposite membranes for separation of gases. In *Advanced Science Letters*, 2012, 11, 1, pp. 126-134., SCOPUS

[1.2] WEN, Pengfei - MEI, Hong - ZHAI, Pengcheng - DUAN, Bo. Effects of nano- $\alpha$ -Al<sub>2</sub>O<sub>3</sub> dispersion on the thermoelectric and mechanical properties of CoSb<sub>3</sub> composites. In *Journal of Materials Engineering and Performance*. ISSN 10599495, 2013-11-01, 22, 11, pp. 3561-3565., SCOPUS

ADCA30 HLÁSNÍK, Ivan - TAKÁCS, Silvester - BURJAK, B.P. - MAJOROŠ, Milan - KRAJČÍK, Jozef - KREMPASKÝ, Ludovít - POLÁK, Milan - JERGEL, Milan - KORNEVA, A.T. - MIRONOVA, O.N. - IVAN, Jozef. Properties of superconducting NbTi superfine filament composites with d 0.1 .MU. In *Cryogenics*, 1985, vol. 25, p. 558. ISSN 0011-2275.

Ohlasy:

[1.1] CORDOBA, R. - BATURINA, T.I. - SESE, J. - MIRONOV, A.Y. - DE TERESA, J.M. - IBARRA, M.R. - NASIMOV, D.A. - GUTAKOVSKII, A.K. - LATYSHEV, A.V. - GUILLAMON, I. - SUDEROW, H. - VIEIRA, S. - BAKLANOV, M.R. - PALACIOS, J.J. - VINOKUR, V.M. In *NATURE COMMUNICATIONS*. FEB 2013, vol. 4., WOS

ADCA31 CHITU, Livia - CHUSHKIN, Jurij - LUBY, Štefan - MAJKOVÁ, Eva - ŠATKA, A. - IVAN, Jozef - SMRČOK, Ľubomír - BUCHAL, Antonín - GIERSIG, Michael - HILGENDORFF, M. Structure and self-assembling of Co nanoparticles. In *Materials Science and Engineering C - Biomimetic and Supramolecular Systems*,

2007, vol. 27, no. 1, p. 23-28. (1.325 - IF2006). (2007 - Current Contents, WOS, SCOPUS). ISSN 0928-4931.

Ohlasy:

- [1.1] ALAGIRI, M. - MUTHAMIZHCHELVAN, C. - HAMID, Sharifah Bee Abdul. Synthesis of superparamagnetic cobalt nanoparticles through solvothermal process. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, 2013, vol. 24, no. 11, pp. 4157., WOS
- [1.1] BELLIDO, Elena - DOMINGO, Neus - OJEA-JIMENEZ, Isaac - RUIZ-MOLINA, Daniel. Structuration and Integration of Magnetic Nanoparticles on Surfaces and Devices. In SMALL. ISSN 1613-6810, 2012, vol. 8, no. 10, pp. 1465., WOS
- [1.1] DERAZ, N. M. - FOUDA, Moustafa M. G. Fabrication and Magnetic Properties of Cobalt-Copper Nano-Composite. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2013, vol. 8, no. 2, pp. 2682., WOS
- [1.1] CHEN, Lei - ZHANG, Lin - QIU, Tai - CAO, Wei. Chemiluminescent Detection of DNA Hybridization Based on Signal DNA Probe Modified with Gold and Cobalt Nanoparticles. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, 2011, vol.6, no.11, 5325., WOS, SCOPUS
- [1.1] MENG, Haining - ZHAO, Fangxia - ZHANG, Zhenzhong. Preparation of cobalt nanoparticles by direct current arc plasma evaporation method. In INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS. ISSN 0263-4368, 2012, vol. 31, no., pp. 224., WOS
- [1.1] MENG, Haining - ZHAO, Fangxia - ZHANG, Zhenzhong - QIU, Tai. Dispersive action of octane for cobalt nano-particles. In INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS. ISSN 0263-4368, 2013, vol. 36, no., pp. 254., WOS
- [1.1] WON, H. I. - NERSISYAN, H. H. - WON, C. W. Cobalt powders and porous cobalt particles prepared by co-reduction of hydrazine and sodium phosphate and its formation mechanism. In MATERIALS CHEMISTRY AND PHYSICS. ISSN 0254-0584, 2012, vol. 133, no. 1, pp. 225., WOS
- [1.2] ZHANG, L. - JIAO, W.-L. Self-assembly of superstructure Ni<sub>0.5</sub>Zn<sub>0.5</sub>Fe<sub>2</sub>O<sub>4</sub>/PAA composite nanowire induced by alternating magnetic field. In Rengong Jingti Xuebao/Journal of Synthetic Crystals, 2012, 41, 2, pp. 523-527., SCOPUS

ADCA32 CHITU, L. - JERGER, Matej - MAJKOVÁ, Eva - LUBY, Štefan - CAPEK, Ignác - SATKA, A. - IVAN, Jozef - KOVÁČ, Jozef - TIMKO, Milan. Structure and magnetic properties of CoFe<sub>2</sub>O<sub>4</sub> and Fe<sub>3</sub>O<sub>4</sub> nanoparticles. In *Materials Science and Engineering C - Biomimetic and Supramolecular Systems*, 2007, vol. 27, no. 5-8, p. 1415-1417. (1.325 - IF2006). (2007 - Current Contents, WOS, SCOPUS). ISSN 0928-4931.

Ohlasy:

- [1.1] BARRETO, A.C.H. - MAIA, F.J.N. - SANTIAGO, V.R. - RIBEIRO, V.G.P. - DENARDIN, J.C. - MELE, G. - CARBONE, L. - LOMONACO, D. - MAZZETTO, S.E. - FECHINE, P.B.A. Novel ferrofluids coated with a renewable material obtained from cashew nut shell liquid. In MICROFLUIDICS AND NANOFUIDICS, 2012, vol. 12, no. 5, p. 677-686., WOS
- [1.1] CHATTOPADHYAY, S. - JANA, S. - GIRI, S. - MAJUMDAR, S. An agglomeration induced glassy magnetic state in a carbon nanotube/NiO

nanocomposite system. In JOURNAL OF PHYSICS-CONDENSED MATTER. ISSN 0953-8984, OCT 31 2012, vol. 24, no. 43., WOS

[1.1] MASEK, K. - BLUMENTRIT, P. - BERAN, J. - SKALA, T. - PIS, I. - POLASEK, J. - MATOLIN, V. Structural and electronic studies of supported Pt and Au epitaxial clusters on tungsten oxide surface. In VACUUM, 2012, vol. 86, no. 6, SI, p. 586-593., WOS

[1.1] PRASANNA, G.D. - JAYANNA, H.S. - LAMANI, A.R. - DASH, S. Polyaniline/CoFe<sub>2</sub>O<sub>4</sub> nanocomposites: A novel synthesis, characterization and magnetic properties. In SYNTHETIC METALS, 2011, vol. 161, no. 21-22, p. 2306-2311., WOS

[1.1] VLAZAN, P. - STEFANESCU, M. - BARVINSCHI, P. - STOIA, M. Study on the formation of CoFe<sub>3</sub>-xO<sub>4</sub> system using two low temperature synthesis methods. In MATERIALS RESEARCH BULLETIN. ISSN 0025-5408, DEC 2012, vol. 47, no. 12, p. 4119-4125., WOS

[1.1] WANG, X.- LI, X.- WANG, Q.- WEI, Q. Preparation and characterization of PVP/Fe<sub>3</sub>O<sub>4</sub> composite nanofibers. (2011) Advanced Materials Research, 332-334, p. 783-786., WOS

ADCA33 ILLEKOVÁ, Emília - HARNÚŠKOVÁ, Jana - FLOREK, Roman - SIMANČÍK, František - MAŤKO, Igor - ŠVEC, Peter. Peculiarities of TiH<sub>2</sub> decomposition. In *Journal of Thermal Analysis and Calorimetry*, 2011, vol. 105, p. 583-590. (1.752 - IF2010). (2011 - Current Contents). ISSN 1388-6150.

Ohlasy:

[1.1] BASSANI, P. - BASSANI, E. - TUISSI, A. - GIULIANI, P. - ZANOTTI, C. Nonequiatomic NiTi Alloy Produced by Self Propagating High Temperature Synthesis. In JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE. ISSN 1059-9495, 2014, vol. 23, no. 7, pp. 2373-2378., WOS

[1.1] KUMAR, Sanjay - TAXAK, Manju - KRISHNAMURTHY, Nagaiyar. Hydrogen absorption kinetics of V-Al alloy. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2013, vol. 112, no. 1, pp. 5., WOS

[1.1] KUMAR, Sanjay - TAXAK, Manju - KRISHNAMURTHY, Nagaiyar. Synthesis and hydrogen absorption kinetics of V<sub>4</sub>Cr<sub>4</sub>Ti alloy. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2013, vol. 112, no. 1, pp. 51., WOS

[1.1] LAZARO, J. - SOLORZANO, E. - DE SAJA, J. A. - RODRIGUEZ-PEREZ, M. A. Early anisotropic expansion of aluminium foam precursors. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, 2013, vol. 48, no. 14, pp. 5036., WOS

[1.1] PASCU, Cristina Ileana - GINGU, Oana - ROTARU, P. - VIDA-SIMITI, I. - HARABOR, Ana - LUPU, Nicoleta. Bulk titanium for structural and biomedical applications obtaining by spark plasma sintering (SPS) from titanium hydride powder. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2013, vol. 113, no. 2, pp. 849., WOS

ADCA34 JANIČKOVIČ, Dušan - ŠEBO, Pavol - DUHAJ, Pavol - ŠVEC, Peter. The rapidly quenched Ag-Cu-Ti ribbons for active joining of ceramics. In *Materials Science and Engineering A*. - Lausanne : Elsevier Science SA, 2001, vol. A304-306, p. 569-573. (0.897 - IF2000). (2001 - Current Contents, WOS, SCOPUS). ISSN 0921-5093.

Ohlasy:

- [1.1] CUI, B. - HUANG, J.H. - CAI, C. - CHEN, S.H. - ZHAO, X.K. Microstructures and mechanical properties of C-f/SiC composite and TC4 alloy joints brazed with (Ti-Zr-Cu-Ni) plus W composite filler materials. In COMPOSITES SCIENCE AND TECHNOLOGY. ISSN 0266-3538, JUN 16 2014, vol. 97, p. 19-26., WOS
- [1.1] LIN, K.L. - SINGH, M. - ASTHANA, R. Interfacial characterization of alumina-to-alumina joints fabricated using silver-copper-titanium interlayers. In MATERIALS CHARACTERIZATION. ISSN 1044-5803, APR 2014, vol. 90, p. 40-51., WOS
- [1.1] TUNCKAN, O. - YURDAKUL, H. - TURAN, S. Identification and quantification of reaction phases at Si<sub>3</sub>N<sub>4</sub>-Ti interfaces by using analytical transmission electron microscopy techniques. In CERAMICS INTERNATIONAL. ISSN 0272-8842, MAR 2013, vol. 39, no. 2, p. 1087-1095., WOS
- [1.1] WU, M. - CAO, C.Z. - RAFI-UD-DIN - HE, X.B. - QU, X.H. Brazing diamond/Cu composite to alumina using reactive Ag-Cu-Ti alloy. In TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA. ISSN 1003-6326, JUN 2013, vol. 23, no. 6, p. 1701-1708., WOS
- [1.1] ZHU, W.W. - CHEN, J.C. - JIANG, C.H. - HAO, C.Y. - ZHANG, J.S. Effects of Ti thickness on microstructure and mechanical properties of alumina-Kovar joints brazed with Ag-Pd/Ti filler. In CERAMICS INTERNATIONAL. ISSN 0272-8842, MAY 2014, vol. 40, no. 4, p. 5699-5705., WOS
- [1.2] OSENDI, Maria Isabel - MIRANZO, Pilar. Joining Methods for Hard Ceramics. In COMPREHENSIVE HARD MATERIALS. ISBN: 978-008096528-4, 2014-03-01, VOL. 2, pp. 231-261., SCOPUS
- [1.2] SETTSU, N. - MATSUSHITA, M. - TAKAHASHI, M. - TANIMOTO, M. - OHFUJI, H. Influence of brazing filler metal diffusion on the mechanical strength of SUS304/Cu/Si 3N 4 Composite. In Zairyo/Journal of the Society of Materials Science, Japan, 2012, 61, 2, pp. 197-202., SCOPUS

ADCA35 KAVECKÝ, Štefan - JANEKOVA, Beata - MADEJOVA, Jana - ŠAJGALÍK, Pavol. Silicon carbide powder synthesis by chemical vapour deposition from silane/acetylene reaction system. In *Journal of the European Ceramic Society*, 2000, vol. 20, no.12, p. 1939-1946.

Ohlasy:

- [1.1] BROCCHI, Eduardo - DONEDA, Marina - NAVARRO, Rogerio - WIMMER, Ana Cristina - SOUZA, Rodrigo - CAMPOS, Jose. Synthesis and characterization of metallic oxides. In TMS 2012 141ST ANNUAL MEETING & EXHIBITION SUPPLEMENTAL PROCEEDINGS, VOL 1: MATERIALS PROCESSING AND INTERFACES, 2012, vol., no., pp. 179., WOS, SCOPUS
- [1.1] HU, Jilin - XIAO, Hanning - GAO, Pengzhao - LI, Qing - GUO, Wenming. Synthesis of SiC-TiC composite powders by carbothermal reduction and their sintering behavior. In JOURNAL OF CERAMIC PROCESSING RESEARCH. ISSN 1229-9162, 2013, vol. 14, no. 1, pp. 77., WOS
- [1.1] KAUR, S. - RIEDEL, R. - IONESCU, E. Pressureless fabrication of dense monolithic SiC ceramics from a polycarbosilane. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. ISSN 0955-2219, DEC 2014, vol. 34, no.

15, p. 3571-3578., WOS

[1.1] LU, Y.J. - SHEN, H.F. - GUO, S.W. Microwave Synthesis of Silicon Carbide Nano Powders with Silicon and Carbon. In HIGH-PERFORMANCE CERAMICS VIII. ISSN 1013-9826, 2014, vol. 602-603, p. 118-121., WOS

[1.1] MORITO, Haruhiko - YAMANE, Hisanori. Synthesis of SiC via low-temperature heating of graphite and Si with Na flux. In JOURNAL OF THE CERAMIC SOCIETY OF JAPAN. ISSN 1882-0743, 2013, vol. 121, no. 1419, pp. 930., WOS

[1.1] MUKASYAN, Alexander S. - LIN, Ya-Cheng - ROGACHEV, Alexander S. - MOSKOVSKIKH, Dmitry O. Direct Combustion Synthesis of Silicon Carbide Nanopowder from the Elements. In JOURNAL OF THE AMERICAN CERAMIC SOCIETY. ISSN 0002-7820, 2013, vol. 96, no. 1, pp. 111., WOS, SCOPUS

[1.1] SURI, J. - SHAW, L.L. - ZAWRAH, M.F. Synthesis of carbon-free Si<sub>3</sub>N<sub>4</sub>/SiC nanopowders using silica fume. In CERAMICS INTERNATIONAL. ISSN 0272-8842, DEC 2011, vol. 37, no. 8, p. 3477-3487., WOS, SCOPUS

[1.1] VENNEKAMP, M. - BAUER, I. - GROH, M. - SPERLING, E. - UEBERLEIN, S. - MYNDYK, M. - MADER, G. - KASKEL, S. Formation of SiC nanoparticles in an atmospheric microwave plasma. In BEILSTEIN JOURNAL OF NANOTECHNOLOGY. ISSN 2190-4286, OCT 7 2011, vol. 2, p. 665-673., WOS, SCOPUS

[1.1] WANG, Lihuan - PENG, Yan - HU, Xiaobo - XU, Xiangang. Combustion synthesis of high purity SiC powder by radio-frequency heating. In CERAMICS INTERNATIONAL. ISSN 0272-8842, 2013, vol. 39, no. 6, pp. 6867., WOS

[1.2] YOUM, M.-R. - PARK, S.-W. - KIM, Y.-W. Effect of the C/Si molar ratio on the characteristics of  $\beta$ -SiC powders synthesized from TEOS and phenol resin. In Journal of the Korean Ceramic Society, 2013, 50, 1, pp. 31-36., SCOPUS

ADCA36 KLIMAN, Vladimír. Fatigue Life Estimation under Random Loading Using the Energy Criterion. In *International Journal of Fatigue*, 1985, vol.7, no. 1, p.39-44. ISSN 0142-1123.

Ohlasy:

[1.1] HU, Y.D. - HU, Z.Z. - CAO, S.Z. Theoretical study on Manson-Coffin equation for physically short cracks and lifetime prediction. In SCIENCE CHINA-TECHNOLOGICAL SCIENCES. ISSN 1674-7321, JAN 2012, vol. 55, no. 1, p. 34-42., WOS

ADCA37 KLIMAN, Vladimír. Fatigue life prediction for a material under programmable loading using cyclic stress-strain properties. In *Materials Science and Engineering. A. Structural Materials*, 1984, vol. 68, no. 1, p. 1-10. ISSN 0921-5093.

Ohlasy:

[1.1] ZHANG, L.H. - SHANG, D.G. - LIU, X.D. - SUN, Y.J. - GUO, Y.B. - LIU, F.Z. - CHEN, T. A nonlinear fatigue damage-healing model for copper film by LSP. In FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES. ISSN 8756-758X, NOV 2014, vol. 37, no. 11, p. 1232-1241., WOS

ADCA38     KLIMAN, Vladimír - BÍLÝ, Matěj. Hysteresis energy of cyclic loading. In *Materials Science and Engineering. A. Structural Materials*, 1984, vol. 68, no. 1, p. 11-18. ISSN 0921-5093.

Ohlasy:

[1.1]     BAE, K.H. - LEE, S.B. The effect of specimen geometry on the low cycle fatigue life of metallic materials. In *MATERIALS AT HIGH TEMPERATURES*. ISSN 0960-3409, 2011, vol. 28, no. 1, p. 33-39., WOS

[1.1]     SISTANINIA, M. - NIFFENEGGER, M. Prediction of damage-growth based fatigue life of polycrystalline materials using a microstructural modeling approach. In *INTERNATIONAL JOURNAL OF FATIGUE*. ISSN 0142-1123, SEP 2014, vol. 66, p. 118-126., WOS

[1.1]     SONG, M.S. - KONG, Y.Y. - RAN, M.W. - SHE, Y.C. Cyclic stress-strain behavior and low cycle fatigue life of cast A356 alloys. In *INTERNATIONAL JOURNAL OF FATIGUE*. ISSN 0142-1123, DEC 2011, vol. 33, no. 12, p. 1600-1607., WOS

[1.1]     SONG, M.S. - RAN, M.W. Plastic Strain Energy in Low-Cycle Fatigue of A356 (Al-7Si-0.4Mg) Aluminum Alloys. In *ADVANCED ENGINEERING MATERIALS, PTS 1-3*. ISSN 1022-6680, 2011, vol. 194-196, Part 1-3, p. 1210-1216., WOS

[1.2]     CHENG, P. - WANG, X. - LIN, B. - FAN, J. - ZHANG, W. Influence of pressure on the elastic strain energy of Al-5.0Cu-0.4Mn alloy in low cycle fatigue. In *Tezhong Zhuzao Ji Youse Hejin/Special Casting and Nonferrous Alloys*, 2012, vol. 32, no. 8, p. 743-746., SCOPUS

ADCA39     KLIMAN, Vladimír - BÍLÝ, Matěj - PROHÁČKA, Ján. Improvement of fatigue performance by cold hole expansion. Part 2. Experimental verification of proposed model. In *International Journal of Fatigue*, 1993, roč. 15, č. 2, s. 101-107.

Ohlasy:

[1.1]     FERDOUS, M.S. - MAKABE, C. - RANA, M.S. - MIYAZAKI, T. Improving the fatigue strength of a multiple hole specimen by applying additional holes or notches. In *ENGINEERING FAILURE ANALYSIS*. ISSN 1350-6307, JAN 2011, vol. 18, no. 1, p. 75-87., WOS

ADCA40     KLIMAN, Vladimír - BÍLÝ, Matěj. The influence of mode control, mean value and frequency of loading on the cyclic stress-strain curve. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*, 1980, vol. 44, pp.73-79. ISSN 0921-5093.

Ohlasy:

[1.1]     DE, P.S. - CHAKRABORTI, P.C. - BHATTACHARYA, B. - SHOME, M. - BHATTACHARJEE, D. Ratcheting Behavior of a Titanium-Stabilized Interstitial Free Steel. In *METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE*. ISSN 1073-5623, MAY 2013, vol. 44A, no. 5, p. 2106-2120., WOS

[1.1]     KABIR, S.M.H. - YEO, T.I. Fatigue behavior of an austenitic steel of 300-series under non-zero mean loading. In *JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY*. ISSN 1738-494X, JAN 2012, vol. 26, no. 1, p. 63-71., WOS

[1.1]     KOMORI, A. - WATANABE, E. - TODA, M. - KITAZAWA, R. - YOSHIDA, M. - HORIBE, S. Investigation of the Dominating Mechanism of Fatigue Life for Various Alloys with CSSC on R=0 and -1. In *JOURNAL OF*



THE JAPAN INSTITUTE OF METALS. ISSN 0021-4876, 2013, vol. 77, no. 8, p. 295-299., WOS

[1.1] PAUL, S.K. - SIVAPRASAD, S. - DHAR, S. - TARAFDER, S. Key issues in cyclic plastic deformation: Experimentation. In MECHANICS OF MATERIALS. ISSN 0167-6636, NOV 2011, vol. 43, no. 11, p. 705-720., WOS

[1.1] PAUL, S.K. - SIVAPRASAD, S. - DHAR, S. - TARAFDER, S. True stress-controlled ratcheting behavior of 304LN stainless steel. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, JUN 2012, vol. 47, no. 11, p. 4660-4672., WOS

ADCA41 KOLENÁK, Roman - CHACHULA, Michal - ŠEBO, Pavol - KOLENÁKOVÁ, Monika. Wettability and shear strength of active Sn2Ti solder on Al2O3 ceramics. In *Soldering & Surface Mount Technology*, 2011, vol.23, no.4, p.224-228. (0.636 - IF2010). (2011 - Current Contents). ISSN 0954-0911.

Ohlasy:

[1.1] ZOBAC, Martin - VLCEK, Ivan - ZOBACOVA, Jitka - REK, Antonin. SMALL-VOLUME REACTIVE METAL ALLOYS PREPARED BY ELECTRON BEAM MELTING. In 21ST INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS (METAL 2012). 2012, p. 1601-1606., WOS

[1.2] JI, Hongjun - CHEN, Hao - LI, Mingyu. Microstructures and properties of alumina/copper joints fabricated by ultrasonic-assisted brazing for replacing DBC in power electronics packaging. In Proceedings of the Electronic Packaging Technology Conference, EPTC, 2014-01-01, pp. 1291-1294., SCOPUS

ADCA42 KORÁB, Juraj - KORB, Georg - ŠTEFÁNIK, Pavol - DEGISCHER, Hans Peter. Effect of thermal cycling on the microstructure of continuous carbon fibre reinforced copper matrix composites. In *Composites*, 1999, roč. 30, č., s. 1023-1026.

Ohlasy:

[1.1] ARAI, S. - KANAZAWA, T. Electroless Deposition of Cu/Multiwalled Carbon Nanotube Composite Films with Improved Frictional Properties. In ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY. ISSN 2162-8769, 2014, vol. 3, no. 6, p. P201-P206., WOS

[1.1] KIMMIG, S. - ALLEN, I. - YOU, J.H. Strength and conductivity of unidirectional copper composites reinforced by continuous SiC fibers. In JOURNAL OF NUCLEAR MATERIALS. ISSN 0022-3115, SEP 2013, vol. 440, no. 1-3, p. 272-277., WOS

[1.1] LI, D.G. - CHEN, G.Q. - JIANG, L.T. - XIU, Z.Y. - ZHANG, Y.H. - WU, G.H. Effect of thermal cycling on the mechanical properties of Cf/Al composites. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, DEC 1 2013, vol. 586, p. 330-337., WOS

ADCA43 KORÁB, Juraj - ŠTEFÁNIK, Pavol - KAVECKÝ, Štefan - ŠEBO, Pavol - KORB, Georg. Thermal conductivity of unidirectional copper matrix carbon fibre composites. In *Composites : part A: applied science and manufacturing*. - Oxford : Elsevier Science, 2002, vol. 33, no. 4, p. 577-581. ISSN 1539-835X.

Ohlasy:

[1.1] ABDMOULEH, M. - JEDIDI, I. - KHITOUNI, M. - BEN SALAH, A. - KABADOU, A. LDPE PHASE COMPOSITION IN LDPE/Cu COMPOSITES

USING THERMAL ANALYSIS AND FTIR SPECTROSCOPY. In JOURNAL OF APPLIED SPECTROSCOPY. ISSN 0021-9037, MAY 2011, vol. 78, no. 2, p. 174-182., WOS

[1.1] BOUAFIA, Farida - SERIER, Boualem - BOUIADJRA, Bel Abbas Bachir. Finite element analysis of the thermal residual stresses of SiC particle reinforced aluminum composite. In COMPUTATIONAL MATERIALS SCIENCE. ISSN 0927-0256, MAR 2012, vol. 54, p. 195-203., WOS

[1.1] COUILLAUD, S. - LU, Y.F. - SILVAIN, J.F. Thermal conductivity improvement of copper-carbon fiber composite by addition of an insulator: calcium hydroxide. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, AUG 2014, vol. 49, no. 16, p. 5537-5545., WOS

[1.1] DAS, S. - DAS, S. - DAS, K. Synthesis and thermal behavior of Cu/Y2W3O12 composite. In CERAMICS INTERNATIONAL. ISSN 0272-8842, JUN 2014, vol. 40, no. 5, p. 6465-6472., WOS

[1.1] CHMIELEWSKI, M. - WEGLEWSKI, W. Comparison of experimental and modelling results of thermal properties in Cu-AlN composite materials. In BULLETIN OF THE POLISH ACADEMY OF SCIENCES-TECHNICAL SCIENCES. ISSN 0239-7528, JUN 2013, vol. 61, no. 2, p. 507-514., WOS

[1.1] KIMMIG, S. - ALLEN, I. - YOU, J.H. Strength and conductivity of unidirectional copper composites reinforced by continuous SiC fibers. In JOURNAL OF NUCLEAR MATERIALS. ISSN 0022-3115, SEP 2013, vol. 440, no. 1-3, p. 272-277., WOS

[1.1] LIU, Ke - TAKAGI, Hitoshi - OSUGI, Ryosuke - YANG, Zhimao. Effect of lumen size on the effective transverse thermal conductivity of unidirectional natural fiber composites. In COMPOSITES SCIENCE AND TECHNOLOGY. ISSN 0266-3538, MAR 8 2012, vol. 72, no. 5, p. 633-639., WOS

[1.1] LIU, K. - YANG, Z.M. - TAKAGI, H. Anisotropic thermal conductivity of unidirectional natural abaca fiber composites as a function of lumen and cell wall structure. In COMPOSITE STRUCTURES. ISSN 0263-8223, FEB 2014, vol. 108, p. 987-991., WOS

[1.1] QU, X.H. - ZHANG, L. - WU, M. - REN, S.B. Review of metal matrix composites with high thermal conductivity for thermal management applications. In PROGRESS IN NATURAL SCIENCE-MATERIALS INTERNATIONAL. ISSN 1002-0071, JUN 2011, vol. 21, no. 3, p. 189-197., WOS

[1.1] QU, Z. G. - WANG, T. S. - TAO, W. Q. - LU, T. J. A theoretical octet-truss lattice unit cell model for effective thermal conductivity of consolidated porous materials saturated with fluid. In HEAT AND MASS TRANSFER. ISSN 0947-7411, AUG 2012, vol. 48, no. 8, p. 1385-1395., WOS

[1.1] RAMESH, C.S. - ADARSHA, H. - PRAMOD, S. - KHAN, Z. Tribological characteristics of innovative Al6061-carbon fiber rod metal matrix composites. In MATERIALS & DESIGN. ISSN 0261-3069, SEP 2013, vol. 50, p. 597-605., WOS

[1.1] SCHAFER, D. - EISENMENGER-SITTNER, C. - CHIRTOC, M. - KIJAMNAJSUK, P. - KORNFEIND, N. - HUTTER, H. - NEUBAUER, E. - KITZMANTEL, M. Characterization of the mechanical and thermal interface of copper films on carbon substrates modified by boron based interlayers. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, MAR 15 2011, vol. 205, no. 12, p. 3729-3735., WOS

[1.1] TAO, Zechao - GUO, Quanguai - GAO, Xiaoqing - LIU, Lang. Graphite

fiber/copper composites with near-zero thermal expansion. In MATERIALS & DESIGN. ISSN 0261-3069, JAN 2012, vol. 33, p. 372-375., WOS

[1.1] TAO, Z.C. - GUO, Q.G. - GAO, X.Q. - LIU, L. The wettability and interface thermal resistance of copper/graphite system with an addition of chromium. In MATERIALS CHEMISTRY AND PHYSICS. ISSN 0254-0584, JUL 15 2011, vol. 128, no. 1-2, p. 228-232., WOS

[1.1] ZHU, Guoping - BAO, Yongjie - GAO, Hang. Research on the Drilling Temperature Field Model of the Unidirectional Carbon Fiber Epoxy Composites. In ADVANCES IN ABRASIVE TECHNOLOGY XV. ISSN 1022-6680, 2012, vol. 565, p. 478-483., WOS

[1.2] BAO, Yongjie - GAO, Hang - LIANG, Yande - ZHU, Guoping. Modeling and experimental research on drilling temperature field of carbon fiber/epoxy reinforced composites. In Binggong Xuebao/Acta Armamentarii. ISSN 10001093, 2013-07-01, 34, 7, pp. 846-852., SCOPUS

[1.2] GU, Wen Cui - GU, Wen Cui - LI, Shou De - LI, Shou De - WANG, Huai Yong - CHEN, Chun Li - LI, Peng - HUANG, Feng. Influence of bias voltage on microstructure and properties of magnetron sputtering TiB<sub>2</sub> coating. In Hangkong Cailiao Xuebao/Journal of Aeronautical Materials. ISSN 10055053, 2014-01-01, 34, 5, pp. 37-42., SCOPUS

[1.2] LI, Zhiqiang - TAN, Zhanqiu - FAN, Genlian - ZHANG, Di. Progress of metal matrix composites for efficient thermal management applications. In Materials China. ISSN 16743962, 2013-12-01, 32, 7, pp. 431-440., SCOPUS

[1.2] XU, Rui - MAO, Jun Kui - ZHANG, Jing Yu - LOU, De Cang - GUO, Wen. A novel model for predicting the thermal conductivity of fiber reinforced ceramic materials. In Advanced Materials Research. ISSN 10226680, 2014-01-01, 936, pp. 154-163., SCOPUS

ADCA44 KORÁB, Juraj - ŠTEFÁNIK, Pavol - KAVECKÝ, Štefan - ŠEBO, Pavol - KORB, Georg. Thermal expansion of cross-ply and woven carbon fibre-copper matrix composites. In *Composites : part A: applied science and manufacturing*. - Oxford : Elsevier Science, 2002, vol. 33, no. 1, p. 133-136. ISSN 1539-835X.

Ohlasy:

[1.1] KONG, C.Y. - SUN, Z.G. - NIU, X.M. - SONG, Y.D. Analytical model of elastic modulus and coefficient of thermal expansion for 2.5D C/SiC composite. In JOURNAL OF WUHAN UNIVERSITY OF TECHNOLOGY-MATERIALS SCIENCE EDITION. ISSN 1000-2413, JUN 2013, vol. 28, no. 3, p. 494-499., WOS

[1.1] SAFARI, J. - GANDOMI-RAVANDI, S. Microwave-accelerated three components cyclocondensation in the synthesis of 2,3-dihydroquinazolin-4(1H)-ones promoted by Cu-CNTs. In JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL. ISSN 1381-1169, MAY 2013, vol. 371, p. 135-140., WOS

ADCA45 KORB, Georg - KORÁB, Juraj - GROBOTH, Gerhard. Thermal expansion behaviour of unidirectional carbon-fibre-reinforced copper-matrix composites. In *Composites : part A: applied science and manufacturing*, 1998, vol.29, no.12, p.1563-1567. ISSN 1539-835X.

Ohlasy:

[1.1] GOLYANDIN, S. - SAPOZHNIKOV, K. - KUSTOV, S. Ultrasonic Study of Elastic and Anelastic Properties of C/Mg-2wt.%Si Composite. In

INTERNAL FRICTION AND MECHANICAL SPECTROSCOPY. ISSN 1012-0394, 2012, vol. 184, p. 191-196., WOS

[1.1] KONG, C.Y. - SUN, Z.G. - NIU, X.M. - SONG, Y.D. Analytical model of elastic modulus and coefficient of thermal expansion for 2.5D C/SiC composite. In JOURNAL OF WUHAN UNIVERSITY OF TECHNOLOGY-MATERIALS SCIENCE EDITION. ISSN 1000-2413, JUN 2013, vol. 28, no. 3, p. 494-499., WOS

[1.1] KOVACIK, J. - EMMER, S. Thermal expansion of Cu/graphite composites: effect of copper coating. In KOVOVE MATERIALY-METALLIC MATERIALS. ISSN 0023-432X, 2011, vol. 49, no. 6, p. 411-416., WOS

[1.1] LIN, J. - ZHANG, H.Y. - HONG, H.Q. - LIU, H. - ZHANG, X.B. A Thermally Conductive Composite with a Silica Gel Matrix and Carbon-Encapsulated Copper Nanoparticles as Filler. In JOURNAL OF ELECTRONIC MATERIALS. ISSN 0361-5235, JUL 2014, vol. 43, no. 7, p. 2759-2769., WOS

[1.1] LIU, X.C. - CHENG, L.F. - ZHANG, L.T. - DONG, N. - WU, S.J. - MENG, Z.X. Tensile properties and damage evolution in a 3D C/SiC composite at cryogenic temperatures. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, SEP 25 2011, vol. 528, no. 25-26, p. 7524-7528., WOS

[1.1] MAGNIEZ, K. - VIJAYAN, Arun - FINN, Niall. Apparent volumetric shrinkage study of RTM6 resin during the curing process and its effect on the residual stresses in a composite. In POLYMER ENGINEERING AND SCIENCE. ISSN 0032-3888, FEB 2012, vol. 52, no. 2, p. 346-351., WOS

[1.1] SCHAFER, D. - EISENMENGER-SITTNER, C. - CHIRTOC, M. - KIJAMNAJSUK, P. - KORNFEIND, N. - HUTTER, H. - NEUBAUER, E. - KITZMANTEL, M. Characterization of the mechanical and thermal interface of copper films on carbon substrates modified by boron based interlayers. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, MAR 15 2011, vol. 205, no. 12, p. 3729-3735., WOS

[1.1] SIDDIQUI, F. - SALEH, N. - RAHAT, A. - ISRAR, A. - ATIQU-UR-REHMAN. An Empirical Relationship to Predict Damages in Carbon Fiber Reinforced Composites under Extreme Thermal Cycling Conditions. In MATERIALS SCIENCE AND NANOTECHNOLOGY I. ISSN 1013-9826, 2013, vol. 531-532, p. 153-158., WOS

[1.1] SONG, J.L. - GUO, Q.G. - GAO, X.Q. - TAO, Z.C. - SHI, J.L. - LIU, L. Mo<sub>2</sub>C intermediate layers for the wetting and infiltration of graphite foams by liquid copper. In CARBON. ISSN 0008-6223, AUG 2011, vol. 49, no. 10, p. 3165-3170., WOS

[1.1] STEFANIK, P. - IZDINSKY, K. - SIMANCIK, F. - BERONSKA, N. Thermal Cycling of Copper Based Composite Reinforced with High Modulus Carbon Fibres. In METALLOGRAPHY XV. ISSN 0255-5476, 2014, vol. 782, p. 519-522., WOS

[1.1] YU, Q. - CHEN, P. - GAO, Y. - MU, J.J. - CHEN, Y.W. - LU, C. - LIU, D. Effects of vacuum thermal cycling on mechanical and physical properties of high performance carbon/bismaleimide composite. In MATERIALS CHEMISTRY AND PHYSICS. ISSN 0254-0584, NOV 1 2011, vol. 130, no. 3, p. 1046-1053., WOS

[1.1] ZAMRI, M.H. - AKIL, H.M. - SAFIEE, S. - ISHAK, Z.A.M. -

BAKAR, A.A. PREDICTING THE COEFFICIENT OF THERMAL EXPANSION OF PULTRUDED COMPOSITES WITH A NATURAL-FIBER REINFORCEMENT. In MECHANICS OF COMPOSITE MATERIALS. ISSN 0191-5665, NOV 2014, vol. 50, no. 5, p. 603-612., WOS

[1.1] ZHANG, C. - WANG, H. - LIU, Y. - QIAO, S. - LI, M. - HAN, D. - ZHANG, J. - GUO, Y. Thermal shock resistance of a 2D-C/SiC composite and its damage mechanisms. In ADVANCES IN APPLIED CERAMICS. ISSN 1743-6753, NOV 2013, vol. 112, no. 8, p. 499-504., WOS

[1.1] ZHANG, C.Y. - GOU, J.J. - QIAO, S.R. - WANG, X.W. - ZHANG, J. Interlaminar shear strength of SiC matrix composites reinforced by continuous fibers at 900 degrees C in air. In MATERIALS & DESIGN. ISSN 0261-3069, JAN 2014, vol. 53, p. 93-98., WOS

[1.1] ZHANG, C.Y. - LIU, Y.W. - YANG, Z.M. - CHEN, L.J. - QIAO, S.R. Cathode spot movement on a continuous carbon fiber reinforced Cu matrix composite in vacuum. In VACUUM. ISSN 0042-207X, JUL 2013, vol. 93, p. 45-49., WOS

[1.1] ZHANG, H.Y. - LIU, Y.W. - ZHAO, X.L. - LUAN, X.G. Preparation and Arc Erosion Resistance of C-f/Cu Composite by Vacuum Melting Infiltration. In JOURNAL OF WUHAN UNIVERSITY OF TECHNOLOGY-MATERIALS SCIENCE EDITION. ISSN 1000-2413, OCT 2014, vol. 29, no. 5, p. 1039-1043., WOS

[1.2] ALMEIDA JÚNIOR, J. H S - ALMEIDA JÚNIOR, J. H S - TONATTO, M. L P - FARIA, H. - MARQUES, A. T. - AMICO, S. C. Effect of environmental conditioning on burst pressure of carbon/epoxy filament wound composite pipes. In 16th European Conference on Composite Materials, ECCM 2014. ISBN: 978-000000000-2, 2014-01-01, pp., SCOPUS

[1.2] WUCHER, B. - LANI, F. - PARDOEN, T. - BAILLY, C. - DUMAS, D. - MARTINY, P. Simulation-driven tooling shape optimization for an easier assembling process of composite parts. In 16th European Conference on Composite Materials. ECCM 2014. ISBN: 978-000000000-2, 2014-01-01, pp., SCOPUS

ADCA46 KORPÁŠ, Juraj - WIDDICOMBE, John G. - VRABEC, Miroslav - KUDLIČKA, Ján. Effect of experimental lung oedema on cough sound creation. In *Respiratory medicine*, 1993, roč. 87, č. 1, s. 55-59.

Ohlasy:

[1.1] VARECHOVA, S. - DEMOULIN, B. - POUSSEL, M. - CHENUUEL, B. - MARCHAL, F. Cough threshold and reactivity to mechanical stimulation of the trachea in the rabbit Preliminary observations. In BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY. ISSN 0006-9248, 2011, vol. 112, no. 3, p. 136-139., WOS

ADCA47 KOŠÚT, Ján. History influence exponent in cumulative fatigue damage determined using two-step loading experiments. In *Fatigue and Fracture of Engineering Materials and Structures*. - Sheffield : Blackwell Publishing, 2002, vol. 25, p.575-586. ISSN 8756-758X.

Ohlasy:

[1.1] REJOVITZKY, Elisha - ALTUS, Eli. Non-commutative fatigue damage evolution by material heterogeneity. In INTERNATIONAL JOURNAL OF FATIGUE. ISSN 0142-1123, 2012, vol. 37, no., pp. 54., WOS

[1.1] ZHAO, S.C. - XIE, J.J. - ZHAO, A.G. - WU, X.L. An energy-equilibrium model for complex stress effect on fatigue crack initiation. In SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY. ISSN 1674-7348, MAY 2014, vol. 57, no. 5, p. 916-926., WOS

ADCA48 KOVÁČ, Pavol - HUŠEK, Imrich - PACHLA, W. - KULCZYK, M. - MELIŠEK, Tibor - DVORÁK, Tomáš. As-deformed filament's density and transport currents of MgB<sub>2</sub>/Ti/Glidcop wire. In *Journal of Alloys and Compounds*, 2011, vol. 509, p. 8783-8787. (2.138 - IF2010). (2011 - Current Contents). ISSN 0925-8388.

Ohlasy:

[1.1] WOZNIAK, M. - GIOWACKI, B.A. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. MAR 2014, vol. 27, no. 3., WOS

ADCA49 KOVÁČIK, Jaroslav - SIMANČÍK, František. Aluminium foam-modulus of elasticity and electrical conductivity according to percolation theory. In *Scripta Materialia*, 1998, roč. 39, č. 2, s. 239-246.

Ohlasy:

[1.1] CATRIN, R. - HORWAT, D. - PIERSON, J. -F. - MIGOT, S. - HU, Y. - MUECKLICH, F. Nano-scale and surface precipitation of metallic particles in laser interference patterned noble metal-based thin films. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, APR 1 2011, vol. 257, no. 12, p. 5223-5229., WOS

[1.1] GHERIBI, Aimen E. - GARDAREIN, Jean-Laurent - RIGOLLET, Fabrice - CHARTRAND, Patrice. Evidence of second order transition induced by the porosity in the thermal conductivity of sintered metals. In APL MATERIALS. ISSN 2166-532X, JUL 2014, vol. 2, no. 7., WOS

[1.1] CHAND, Navin - SHARMA, Janu. Influence of porosity on resistivity of polypropylene foams. In JOURNAL OF CELLULAR PLASTICS. ISSN 0021-955X, JAN 2012, vol. 48, no. 1, p. 43-52., WOS

[1.1] LI, B. Q. - LU, X. The Effect of Pore Structure on the Electrical Conductivity of Ti. In TRANSPORT IN POROUS MEDIA. ISSN 0169-3913, MAR 2011, vol. 87, no. 1, p. 179-189., WOS

[1.1] MUSTAPHA, M. - MUSTAPHA, F. - MAMAT, O. - HUSSAIN, P. Fabrication of aluminium foam through pressure assisted high frequency induction heated sintering dissolution process: an experimental observation. In POWDER METALLURGY. ISSN 0032-5899, JUL 2011, vol. 54, no. 3, p. 343-353., WOS

[1.1] WANG, Bo - MATSUMARU, Koji - YANG, Jianfeng - FU, Zhengyi - ISHIZAKI, Kozo. Mechanical behavior of cellular borosilicate glass with pressurized Ar-filled closed pores. In ACTA MATERIALIA. ISSN 1359-6454, JUN 2012, vol. 60, no. 10, p. 4185-4193., WOS

[1.1] ZHANG XIAOTIAN - JIA GUANGHUI - HUANG HAI. Numerical Investigation of Aluminum Foam Shield Based on Fractal Theory and Node-separation FEM. In CHINESE JOURNAL OF AERONAUTICS. ISSN 1000-9361, DEC 2011, vol. 24, no. 6, p. 734-740., WOS

[1.2] DOU, Long - CHEN, Bin - CHEN, Hailin. A numerical method for modeling equivalent conductivity of closed-cell aluminum foams material based on CST software. In Applied Mechanics and Materials. ISSN 16609336, 2013-11-18, 433-435, pp. 1894-1897., SCOPUS

[1.2] MORTENSEN, Andreas - CONDE, Yves - ROSSOLL, Andreas - SAN

MARCHI, Chris. Scaling of conductivity and Young's modulus in replicated microcellular materials. In *Journal of Materials Science*. ISSN 00222461, 2013-12-01, 48, 23, pp. 8140-8146., SCOPUS

[1.2] MUSTAPHA, M. - ISMAIL, F. - MAMAT, O. Empirical relationship between relative electrical conductivity and relative density of the Al-foam fabricated through pressure assisted sintering/dissolution process. In *IOP Conference Series: Materials Science and Engineering*. ISSN 1757-8981, 2011, vol. 17, no. 1, art. no. 012014., SCOPUS

[1.2] NAKAJIMA, Hideo - NAKAJIMA, Hideo. Porous metals with directional pores. In *Porous Metals with Directional Pores*, 2014-04-01, pp. 1-284., SCOPUS

[1.2] TANG, Yue - YEO, KaiLeng - CHEN, Yi - YAP, Limwei - XIONG, Wei - CHENG, Wenlong. Ultralow-density copper nanowire aerogel monoliths with tunable mechanical and electrical properties. In *Journal of Materials Chemistry A*. ISSN 20507488, 2013-06-21, 1, 23, pp. 6723-6726., SCOPUS

ADCA50 KOVÁČIK, Jaroslav. Correlation between Young's modulus and porosity in porous materials. In *Journal of Materials Science Letters*, 1999, roč. 18, č. 13, s. 1007-1010.

Ohlasy:

[1.1] BELICA, Tomasz - MALINOWSKI, Marek - MAGNUCKI, Krzysztof. Dynamic Stability of an Isotropic Metal Foam Cylindrical Shell Subjected to External Pressure and Axial Compression. In *JOURNAL OF APPLIED MECHANICS-TRANSACTIONS OF THE ASME*. ISSN 0021-8936, JUL 2011, vol. 78, no. 4., WOS

[1.1] COHEN-TANUGI, David - GROSSMAN, Jeffrey C. Mechanical Strength of Nanoporous Graphene as a Desalination Membrane. In *NANO LETTERS*. ISSN 1530-6984, NOV 2014, vol. 14, no. 11, p. 6171-6178., WOS

[1.1] DEODATI, Paolo - DONNINI, Riccardo - MONTANARI, Roberto - UCCIARDELLO, Nadia. Microstructural investigation on tungsten for applications in future nuclear fusion reactors. In *THERMEC 2011*, PTS 1-4. ISSN 0255-5476, 2012, vol. 706-709, p. 835-840., WOS

[1.1] CHIU, S. -Y. - HSU, H. L. - CHE, M. L. - LEU, J. Synthesis, Pore Morphology, and Dielectric Property of Mesoporous Low-k Material PSMSQ using a Reactive High-Temperature Porogen, TEPSS. In *SILICON NITRIDE, SILICON DIOXIDE, AND EMERGING DIELECTRICS 11*. ISSN 1938-5862, 2011, vol. 35, no. 4, p. 629-638., WOS

[1.1] CHO, Yong-Hun - WOLFENSTINE, Jeff - RANGASAMY, Ezhiylmurugan - KIM, Hyunjoong - CHOE, Heeman - SAKAMOTO, Jeff. Mechanical properties of the solid Li-ion conducting electrolyte: Li<sub>0.33</sub>La<sub>0.57</sub>TiO<sub>3</sub>. In *JOURNAL OF MATERIALS SCIENCE*. ISSN 0022-2461, AUG 2012, vol. 47, no. 16, p. 5970-5977., WOS

[1.1] KAMNIS, S. - GU, S. - VARDAMOULIAS, M. Numerical Study to Examine the Effect of Porosity on In-Flight Particle Dynamics. In *JOURNAL OF THERMAL SPRAY TECHNOLOGY*. ISSN 1059-9630, MAR 2011, vol. 20, no. 3, p. 630-637., WOS

[1.1] KESHARAJU, Manasa - NAGARAJAH, Romesh. Determination of Density Variation and Microstructure in Reaction-sintered SiC Ceramics Using Ultrasonic Time-of-Flight. In *INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY*. ISSN 1546-542X, MAR 2014, vol. 11, no. 2, p.

303-310., WOS

[1.1] KUMAR, Arvind - GU, Sai - KAMNIS, Spyros. Simulation of impact of a hollow droplet on a flat surface. In APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING. ISSN 0947-8396, OCT 2012, vol. 109, no. 1, p. 101-109., WOS

[1.1] KUMAR, A. - GU, S. - TABBARA, H. - KAMNIS, S. Study of impingement of hollow ZrO<sub>2</sub> droplets onto a substrate. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, APR 15 2013, vol. 220, p. 164-169., WOS

[1.1] MAKANI, Abdelkadir. Analytical Estimate of the Mechanical Behavior of Rock: Granitic Aggregates. In ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING. ISSN 1319-8025, MAY 2014, vol. 39, no. 5, p. 3651-3663., WOS

[1.1] MAKAROVIC, K. - BENCAN, A. - HROVAT, M. - HOLC, J. - MALIC, B. - KOSEC, M. - BERMEJO, R. - KRALEVA, I. The Effect of Phase Composition on the Mechanical Properties of LTCC Material. In INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY. ISSN 1546-542X, MAY-JUN 2013, vol. 10, no. 3, p. 449-457., WOS

[1.1] NETO, Luiz Bortolan - KOTOUSOV, Andrei - BEDRIKOVETSKY, Pavel. Elastic properties of porous media in the vicinity of the percolation limit. In JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING. ISSN 0920-4105, AUG 2011, vol. 78, no. 2, p. 328-333., WOS

[1.1] NETO, Luiz Bortolan - KOTOUSOV, Andrei - BEDRIKOVETSKY, Pavel. Application of Contact Theory to Evaluation of Elastic Properties of Low Consolidated Porous Media. In INTERNATIONAL JOURNAL OF FRACTURE. ISSN 0376-9429, APR 2011, vol. 168, no. 2, p. 267-276., WOS

[1.1] RATCHFORD, J. B. - SCHUSTER, B. E. - CRAWFORD, B. A. - LUNDGREN, C. A. - ALLEN, J. L. - WOLFENSTINE, J. Young's modulus of polycrystalline Li<sub>22</sub>Si<sub>5</sub>. In JOURNAL OF POWER SOURCES. ISSN 0378-7753, SEP 15 2011, vol. 196, no. 18, SI, p. 7747-7749., WOS

[1.1] ROBERTS, A. P. - GRAYSON, G. - CHALLIS, V. J. - ZHANG, L. C. - GROTOWSKI, J. F. - SCHAFFER, G. B. - SERCOMBE, T. B. Elastic moduli of sintered powders with application to components fabricated using selective laser melting. In ACTA MATERIALIA. ISSN 1359-6454, AUG 2011, vol. 59, no. 13, p. 5257-5265., WOS

[1.1] SHALAV, Avi - BULLOCK, James - ANDERSON, Peter - RUFFELL, Simon - WHITE, John - ELLIMAN, Robert G. The Mechanical and Photochemical Properties of Titania Coated Silica Nanowires. In ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY. ISSN 2162-8769, 2012, vol. 1, no. 5, p. Q114-Q118., WOS

[1.2] AVERY, Michael P. - KLEIN, Susanne - RICHARDSON, Robert - BARTLETT, Paul - ADAMS, Guy - DICKIN, Fraser - SIMSKE, Steve. The rheology of dense colloidal pastes used in 3D-printing. In HP Laboratories Technical Report, 2014-01-01, 29, pp., SCOPUS

[1.2] BALL, Sabrina - GUVEN, Ibrahim - SINHA, Pankaj - RASTOGI, Rajiv - MCCARSON, Brian. Computational investigation of failure in anodized aluminum. In Proceedings Electronic Components and Technology Conference. ISSN 05695503, 2014-01-01, pp. 2035-2041., SCOPUS

[1.2] MARCHELLI, G.L.S. - GANTER, M.A. - STORTI, D.W. Applicability of common young's modulus-porosity models to highly porous 3D



printed stoneware ceramic. In *Journal of Ceramic Science and Technology*, 2012, 3, 1, pp. 41-48., SCOPUS

[1.2] WON, Yoonjin - BARAKO, Michael T. - AGONAFER, Damena D. - ASHEGHI, Mehdi - GOODSON, Kenneth E. Mechanical and thermal properties of copper inverse opals for two-phase convection enhancement. In *Thermomechanical Phenomena in Electronic Systems* Proceedings of the Intersociety Conference, 2014-01-01, pp. 326-332., SCOPUS

ADCA51 KOVÁČIK, Jaroslav. Correlation between shear modulus and porosity in porous materials. In *Journal of Materials Science Letters*, 2001, roč. 20, č. 21, s. 1953-1955.

Ohlasy:

[1.1] PSAKHIE, S.G. - SHILKO, E.V. - SMOLIN, A.Y. - DIMAKI, A.V. - DMITRIEV, A.I. - KONOVALENKO, I.S. - ASTAFUROV, S.V. - ZAVSHEK, S. Approach to simulation of deformation and fracture of hierarchically organized heterogeneous media, including contrast media. In *PHYSICAL MESOMECHANICS*. ISSN 1029-9599, SEP-DEC 2011, vol. 14, no. 5-6, p. 224-248., WOS

[1.1] WANG, Bo - XU, Shao-Chun - JIN, Feng - YANG, Jian-Feng - ISHIZAKI, Kozo - NIIHARA, Koichi. Effect of LiAlSiO<sub>4</sub> particle size on the properties of LAS/SiC porous ceramics with near zero thermal expansion. In *CERAMICS INTERNATIONAL*. ISSN 0272-8842, MAR 2014, vol. 40, no. 2, p. 2853-2856., WOS

[1.1] WANG, B. - MATSUMARU, K. - YANG, J.F. - FU, Z.Y. - ISHIZAKI, K. Mechanical behavior of cellular borosilicate glass with pressurized Ar-filled closed pores. In *ACTA MATERIALIA*. ISSN 1359-6454, JUN 2012, vol. 60, no. 10, p. 4185-4193., WOS

[1.1] ZHANG, Lei - GAO, Kewei - ELIAS, Anastasia - DONG, Zigiang - CHEN, Weixing. Porosity dependence of elastic modulus of porous Cr<sub>3</sub>C<sub>2</sub> ceramics. In *CERAMICS INTERNATIONAL*. ISSN 0272-8842, JAN 2014, vol. 40, no. 1, A, p. 191-198., WOS

[1.2] LUR'E, S. A. - SOLYAEV, Yu O. Simulation of the mechanical properties of nanostructured porous ceramics. In *Russian Metallurgy (Metally)*. ISSN 00360295, 2013-04-01, 2013, 4, pp. 272-281., SCOPUS

ADCA52 KOVÁČIK, Jaroslav. Correlation Between Elastic Modulus, Shear modulus, Poisson's Ratio and Porosity in Porous Materials. In *Advanced Engineering Materials*, 2008, vol.10, no.3, p.250-252. ISSN 1438-1656.

Ohlasy:

[1.1] KRIELE, A. - WILLIAMS, O.A. - WOLFER, M. - HEES, J.J. - SMIRNOV, W. - NEBEL, C.E. Formation of nano-pores in nano-crystalline diamond films. In *CHEMICAL PHYSICS LETTERS*. ISSN 0009-2614, MAY 9 2011, vol. 507, no. 4-6, p. 253-259., WOS

[1.1] MAKANI, Abdelkadir. Analytical Estimate of the Mechanical Behavior of Rock: Granitic Aggregates. In *ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING*. ISSN 1319-8025, MAY 2014, vol. 39, no. 5, p. 3651-3663., WOS

[1.1] NASIRI, Aida - RASHIDI, Alimorad - SHARIATY-NIASAR, Mojtaba - SOLTANIAN, Hamid. Preparation and application of carbon nanotube nanofluid as a reinforcement of cement slurry. In *ADVANCES IN CEMENT*

- RESEARCH. ISSN 0951-7197, 2014, vol. 26, no. 3, p. 177-184., WOS
- [1.1] NETO, L.B. - KOTOUSOV, A. - BEDRIKOVETSKY, P. Elastic properties of porous media in the vicinity of the percolation limit. In JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING. ISSN 0920-4105, AUG 2011, vol. 78, no. 2, p. 328-333., WOS
- [1.1] NETO, L.B. - KOTOUSOV, A. - BEDRIKOVETSKY, P. Application of Contact Theory to Evaluation of Elastic Properties of Low Consolidated Porous Media. In INTERNATIONAL JOURNAL OF FRACTURE. ISSN 0376-9429, APR 2011, vol. 168, no. 2, p. 267-276., WOS
- [1.1] TSAI, Tung-Lin - JANG, Weng-Shin. Deformation effects of porosity variation on soil consolidation caused by groundwater table decline. In ENVIRONMENTAL EARTH SCIENCES. ISSN 1866-6280, AUG 2014, vol. 72, no. 3, p. 829-838., WOS
- [1.1] WANG, W.H. The elastic properties, elastic models and elastic perspectives of metallic glasses. In PROGRESS IN MATERIALS SCIENCE. ISSN 0079-6425, APR 2012, vol. 57, no. 3, p. 487-656., WOS
- [1.1] ZHANG, Lei - GAO, Kewei - ELIAS, Anastasia - DONG, Zigiang - CHEN, Weixing. Porosity dependence of elastic modulus of porous Cr<sub>3</sub>C<sub>2</sub> ceramics. In CERAMICS INTERNATIONAL. ISSN 0272-8842, JAN 2014, vol. 40, no. 1, A, p. 191-198., WOS
- [1.2] LIU, P.S. - MA, X.M. Possible failure of pore-strut for open-cell foamed metals under torsion and shearing. In Zhongguo Youse Jinshu Xuebao/Chinese Journal of Nonferrous Metals. ISSN 1004-0609, 2011, vol. 21, no. 9, p. 2209-2215., SCOPUS
- [1.2] LUR'E, S. A. - SOLYAEV, Yu O. Simulation of the mechanical properties of nanostructured porous ceramics. In Russian Metallurgy (Metally). ISSN 00360295, 2013-04-01, 2013, 4, pp. 272-281., SCOPUS

ADCA53 KOVÁČIK, Jaroslav - EMMER, Štefan - BIELEK, Jozef - KELEŠI, Jozef. Effect of composition on friction coefficient of Cu-graphite composites. In *Wear : An international journal on the science and technology of friction, lubrication and wear*, 2008, vol. 265, no.3-4, p.417-421. ISSN 0043-1648.

Ohlasy:

- [1.1] CAO, Huiquan - QIAN, Zhiyuan - ZHANG, Lei - XIAO, Jinkun - ZHOU, Kechao. Tribological Behavior of Cu Matrix Composites Containing Graphite and Tungsten Disulfide. In TRIBOLOGY TRANSACTIONS. ISSN 1040-2004, 2014, vol. 57, no. 6, p. 1037-1043., WOS
- [1.1] CUI, Gongjun - BI, Qinling - YANG, Jun - LIU, Weimin. Effect of Normal Loads on Tribological Properties of Bronze-Graphite Composite under Seawater Condition. In TRIBOLOGY TRANSACTIONS. ISSN 1040-2004, MAR 4 2014, vol. 57, no. 2, p. 308-316., WOS
- [1.1] DONG, Ruifeng - CUI, Zhenduo - ZHU, Shengli - XU, Xu - YANG, Xianjin. Preparation, Characterization and Mechanical Properties of Cu-Sn Alloy/Graphite Composites. In METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE. ISSN 1073-5623, OCT 2014, vol. 45A, no. 11, p. 5194-5200., WOS
- [1.1] EQUEY, S. - HOURIET, A. - MISCHLER, S. Wear and frictional mechanisms of copper-based bearing alloys. In WEAR. ISSN 0043-1648, NOV 1 2011, vol. 273, no. 1, SI, p. 9-16., WOS
- [1.1] HE, Xiangzhu - ZHANG, Xiaowei - ZHOU, Xinli - WANG, Yongxiu.

- Effect of Complex Agents on the Performance of Electrodeposited Ni-graphite Composites. In ADVANCED MATERIALS, PTS 1-4. ISSN 1022-6680, 2011, vol. 239-242, Part 1-4, p. 2888-2894., WOS
- [1.1] CHU, Yujiao - YU, Gang - HU, Bonian - DONG, Qizhi - ZHANG, Jun - ZHANG, Xueyuan. Effect of hypophosphite on electrodeposition of graphite@copper powders. In ADVANCED POWDER TECHNOLOGY. ISSN 0921-8831, MAR 2014, vol. 25, no. 2, p. 477-482., WOS
- [1.1] JAO, J.Y. - HAN, S. - YEN, C.C. - LIU, Y.C. - CHANG, L.S. - CHANG, C.L. - SHIH, H.C. Bias voltage effect on the structure and property of the (Ti:Cu)-DLC films fabricated by cathodic arc plasma. In DIAMOND AND RELATED MATERIALS. ISSN 0925-9635, FEB 2011, vol. 20, no. 2, p. 123-129., WOS
- [1.1] JUSZCZYK, B. - KULASA, J. - MALARA, S. - CZEPELAK, M. - MALEC, W. - CWOLEK, B. - WIERZBICKI, L. TRIBOLOGICAL PROPERTIES OF COPPER-BASED COMPOSITES WITH LUBRICATING PHASE PARTICLES. In ARCHIVES OF METALLURGY AND MATERIALS. ISSN 1733-3490, 2014, vol. 59, no. 2, p. 615-620., WOS
- [1.1] LARIONOVA, T. - KOLTSOVA, T. - FADIN, Yu. - TOLOCHKO, O. Friction and wear of copper-carbon nanofibers compact composites prepared by chemical vapor deposition. In WEAR. ISSN 0043-1648, NOV 15 2014, vol. 319, no. 1-2, p. 118-122., WOS
- [1.1] NAYAK, D. - DEBATA, M. Effect of composition and milling time on mechanical and wear performance of copper-graphite composites processed by powder metallurgy route. In POWDER METALLURGY. ISSN 0032-5899, SEP 2014, vol. 57, no. 4, p. 265-273., WOS
- [1.1] NAYAK, D. - RAY, N. - SAHOO, R. - DEBATA, M. Analysis of Tribological Performance of Cu Hybrid Composites Reinforced with Graphite and TiC Using Factorial Techniques. In TRIBOLOGY TRANSACTIONS. ISSN 1040-2004, 2014, vol. 57, no. 5, p. 908-918., WOS
- [1.1] RAJKUMAR, K. A. - SANTOSH, S. Effect of nano and micro graphite particle on tribological performance of aluminium metal matrix composites. In DYNAMICS OF MACHINES AND MECHANISMS, INDUSTRIAL RESEARCH. ISSN 1660-9336, 2014, vol. 592-594, p. 917-921., WOS
- [1.1] WANG, Xiujuan - FENG, Yi - QIAN, Gang - ZHANG, Jingcheng - ZHANG, Qiang - DING, Fei. A new core-shell Ti<sub>3</sub>AlC<sub>2</sub>/Cu composite powder prepared by electroless plating method. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, FEB 15 2014, vol. 240, p. 261-268., WOS
- [1.2] ALLABERGENOV, Bunyod - KIM, Sungjin. Investigation of electrophysical and mechanical characteristics of porous copper-carbon composite materials prepared by spark plasma sintering. In International Journal of Precision Engineering and Manufacturing. ISSN 22347593, 2013-12-01, 14, 7, pp. 1177-1183., SCOPUS
- [1.2] ALLABERGENOV, B. - TURSUNKULOV, O. - JO, S.J. - ABIDOV, A. - GOMEZ, C. - PARK, S.B. - KIM, S. Fabrication of copper-graphite composites by spark plasma sintering and its characterization. In Ceramic Transactions, 2012, 232, pp. 151-161., SCOPUS
- [1.2] CUI, Gongjun - BI, Qinling - NIU, Muye - YANG, Jun - LIU, Weimin. The tribological properties of bronze-SiC-graphite composites under sea water condition. In Tribology International. ISSN 0301679X, 2013-01-01, 60, pp. 25-35., SCOPUS

- [1.2] CUI, G. - BI, Q. - ZHU, S. - YANG, J. - LIU, W. Tribological properties of bronze-graphite composites under sea water condition. In *Tribology International*, 2012, 53, pp. 76-86., SCOPUS
- [1.2] CUI, G. - NIU, M. - ZHU, S. - YANG, J. - BI, Q. Dry-Sliding tribological properties of bronze-graphite composites. In *Tribology Letters*, 2012, 48, 2, pp. 111-122., SCOPUS
- [1.2] DUAN, L. - XU, R. Tribological properties and wear mechanism of copper-graphite composite. In *Advanced Materials Research*, 2012, 472-475, pp. 618-621., SCOPUS
- [1.2] GAO, Fei - YANG, TingTing - FU, Rong - HAN, XiaoMing. Friction surface morphology and tribological property of copper-steel-aluminum lamellar composite materials. In *Mocaxue Xuebao/Tribology*. ISSN 10040595, 2013-07-01, 33, 4, pp. 321-328., SCOPUS
- [1.2] HUO, Shengwei - LI, Changsheng - TANG, Hua - YAN, Fengyuan - LIANG, Jiaqing - HU, Zhili. Preparation and tribological properties of copper matrix solid self-lubricant composites reinforced with NbSe<sub>2</sub> sheets. In *Fuhe Cailiao Xuebao/Acta Materiae Compositae Sinica*. ISSN 10003851, 2013-08-01, 30, 4, pp. 121-127., SCOPUS
- [1.2] CHEN, Suiyuan - AN, Di - BI, Yuning - LIANG, Jing - LIU, Changsheng. Preparation of novel polytetrafluoroethylene/copper-matrix self-lubricating composite materials. In *Journal of Composite Materials*. ISSN 00219983, 2014-01-01, 48, 13, pp. 1561-1574., SCOPUS
- [1.2] KIM, Y. - LTOH, S. - LEE, C.-B. Numerical and experimental study on a large sized water container with a convex curve for shockcompaction. In *Science and Technology of Energetic Materials*, 2012, 73, 1-2, pp. 35-41., SCOPUS
- [1.2] KOVALCHENKO, A.M. - FUSHCHICH, O.I. - DANYLUK, S. The tribological properties and mechanism of wear of Cu-based sintered powder materials containing molybdenum disulfide and molybdenum diselenite under unlubricated sliding against copper. In *Wear*, 2012, 290-291, pp. 106-123., SCOPUS
- [1.2] KUMARI, S. - KUMAR, A. - SENGUPTA, P. R. - DUTTA, P. K. - MATHUR, R. B. Improving the mechanical and thermal properties of semi-coke based carbon/copper composites reinforced using carbon nanotubes. In *Advanced Materials Letters*. ISSN 09763961, 2014-05-01, 5, 5, pp. 265-271., SCOPUS
- [1.2] LUO, Y. - WANG, G.-S. The synthesis and mechanical property of the (graphite+nano-SiC p)/Cu composites. In *Yuhang Xuebao/Journal of Astronautics*, 2012, 33, 9, pp. 1322-1326., SCOPUS
- [1.2] MENEZES, P.L. - ROHATGI, P.K. - LOVELL, M.R. Self-Lubricating Behavior of Graphite Reinforced Metal Matrix Composites. In *Green Energy and Technology*, 2012, 49, pp. 445-480., SCOPUS
- [1.2] MUTERLLE, P.V. - CRISTOFOLINI, I. - PILLA, M. - PAHL, W. - MOLINARI, A. Surface durability and design criteria for graphite-bronze sintered composites in dry sliding applications. In *Materials and Design*. ISSN 0261-3069, 2011, vol. 32, no. 7, p. 3756-3764., SCOPUS
- [1.2] OH, Y.T. - KOO, B.R. - CHOI, G. - CHOI, H.B. - KIM, H.R. - SHIN, C.D. The effect of additive on tribological properties of Cu-C-Fe<sub>3</sub>O<sub>4</sub>-Sn sintered friction materials. In *International SAMPE Technical Conference*. ISBN 978-193455111-0, 2011, 12p., SCOPUS
- [1.2] OH, Y.T. - LEE, K.U. - SEO, I.H. - CHOI, H.G. - SHIN, D.C. The

effect of graphite and Cu content on tribological behavior in Cu-Sn sintered friction materials. In International SAMPE Technical Conference. ISBN 978-193455111-0, 2011, 9p., SCOPUS

[1.2] QIAN, Gang - FENG, Yi - CHEN, Fanyan - LIU, Wenhong - ZHANG, Xuebin - LIU, Yanfang. Effect of current polarity on electrical sliding wear behavior of Cu-WS<sub>2</sub>-graphite-WS<sub>2</sub> nanotube composites in air and vacuum conditions. In Science China Technological Sciences. ISSN 16747321, 2013-11-01, 56, 11, pp. 2839-2846., SCOPUS

[1.2] RAJKUMAR, Kuppusamy - ARAVINDAN, Sivanandam. Tribological behavior of microwave processed copper-nanographite composites. In Tribology International. ISSN 0301679X, 2013-01-01, 57, pp. 282-296., SCOPUS

[1.2] SARAJAN, Zohair. Tribological properties of Brass-graphite composite. In Metallurgical Research and Technology. ISSN 22713646, 2014-01-01, 111, 2, pp. 85-93., SCOPUS

[1.2] SARMADI, H. - KOKABI, Amir Hossein - SEYED REIHANI, S. M. Friction and wear performance of copper-graphite surface composites fabricated by friction stir processing (FSP). In Wear. ISSN 00431648, 2013-07-15, 304, 1-2, pp. 1-12., SCOPUS

[1.2] SATO, Hisashi - WEI, Wei - OGURI, Kazuaki - YAMADA, Motoko - WATANABE, Yoshimi. Fabrication of self-lubricating cu-based composite containing graphite particle by centrifugal mixed-powder casting. In Advanced Materials Research. ISSN 10226680, 2014-01-01, 783-786, pp. 1579-1584., SCOPUS

[1.2] SATO, T. Tribology of nanodiamond with graphite base. In Toraibarojisuto/Journal of Japanese Society of Tribologists, 2012, 57, 10, pp. 688-693., SCOPUS

[1.2] SHI, Y. - ZHANG, H. - LIU, S.Y. Laser-induced surface modification of a Cu-based powder metallurgy friction material. In Lasers in Engineering. ISSN 0898-1507, 2011, vol. 22, no. 3-4, p. 247-261., SCOPUS

[1.2] SHI, Y. - ZHANG, H. - XU, C.Y. - LIU, S.Y. Cu-based amorphous-nanocrystalline powder metallurgy friction materials prepared by laser surface modification. In Cailiao Rechuli Xuebao/Transactions of Materials and Heat Treatment. ISSN 1009-6264, 2011, vol. 32, no. 1, p. 121-127., SCOPUS

[1.2] STAPPERS, Linda - NGOY, C. Ntumba - ZHANG, Wan - TOBEN, Michael P. - FRANSAER, Jan L. Electrodeposition of Silver-Carbon coatings with low contact resistance and wear rate. In Journal of the Electrochemical Society. ISSN 00134651, 2013-04-08, 160, 4, pp. D137-D145., SCOPUS

[1.2] WALBRAN, William A. - BICKERTON, Simon - KELLY, Piaras Alphonsus. Evaluating the shear component of reinforcement compaction stress during liquid composite moulding processes. In Journal of Composite Materials. ISSN 00219983, 2013-03-01, 47, 5, pp. 513-528., SCOPUS

[1.2] WANG, Jianxin - ZHANG, Ruijun - XU, Jiang - WU, Chao - CHEN, Peng. Effect of the content of ball-milled expanded graphite on the bending and tribological properties of copper-graphite composites. In Materials and Design. ISSN 02641275, 2013-05-01, 47, pp. 667-671., SCOPUS

[1.2] WANG, X.-P. - XIAO, J.-K. - ZHANG, L. - ZHOU, K.-C. Effect of silver alloy particle size on friction and wear properties of Ag-MoS<sub>2</sub> composites. In Zhongguo Youse Jinshu Xuebao/Chinese Journal of Nonferrous Metals, 2012, 22, 10, pp. 2811-2817., SCOPUS

- [1.2] WANG, Y.-F. - XIE, F.-Q. - YAO, X.-F. - WU, X.-Q. - MA, B. Comparison on tribological properties between Cu coating and Ni-P coating on P110 oil tube steel substrate. In *Mocaxue Xuebao/Tribology*, 2012, 32, 1, pp. 64-69., SCOPUS
- [1.2] XIAO, JinKun - ZHANG, Lei - ZHOU, Kechao - WANG, Xinping. Microscratch behavior of copper-graphite composites. In *Tribology International*. ISSN 0301679X, 2013-01-01, 57, pp. 38-45., SCOPUS
- [1.2] YUN, H.-T. - LIANG, B. - JI, H. - ZHENG, X.-B. Structure and dry tribology performance of plasma sprayed copper-graphite composite coating. In *Hangkong Cailiao Xuebao/Journal of Aeronautical Materials*, 2012, 32, 5, pp. 60-65., SCOPUS
- [1.2] YU, G. - HUANG, X. - ZOU, C. - CHEN, L. - HU, B. - YE, L. Preparation of graphite@Cu powders from ultrasonic powdering technique. In *Advanced Powder Technology*, 2012, 23, 1, pp. 16-21., SCOPUS
- [1.2] YU, G. - ZOU, C. - HU, B.N. - HUANG, X.H. - YE, L.Y. Fabrication of Cu-coated graphite powders with ultrasonic flow electroplating copper. In *Hunan Daxue Xuebao/Journal of Hunan University Natural Sciences*. ISSN 1674-2974, 2011, vol. 38, no. 2, p. 60-64., SCOPUS
- [1.2] ZHANG, L. - XIAO, J. - ZHOU, K. Sliding Wear Behavior of Silver-Molybdenum Disulfide Composite. In *Tribology Transactions*, 2012, 55, 4, pp. 473-480., SCOPUS
- [1.2] ZHEN, WenZhu - LIANG, Bo. Tribological behavior of plasma sprayed MoS<sub>2</sub>/Cu composite coating under vacuum atmosphere. In *Cailiao Gongcheng/Journal of Materials Engineering*. ISSN 10014381, 2013-08-01, 8, pp. 16-22., SCOPUS

ADCA54 KOVÁČIK, Jaroslav. Electrical conductivity of two-phase composite material. In *Scripta materialia*, 1998, roč. 39, č. 2, s. 153-157.

Ohlasy:

- [1.1] SHIN, J.S. - MOON, H.K. - KIM, B.H. - KIM, K.H. - LEE, H.S. - JUNG, S.B. - KWON, H.C. Development and evaluation of a Cu composite sheet with embedded high electric conduction path for new interconnect material. In *CURRENT APPLIED PHYSICS*. ISSN 1567-1739, JAN 2011, vol. 11, no. 1, SI, p. S283-S288., WOS
- [1.1] TIAN, Liang - ANDERSON, Iver - RIEDEMANN, Trevor - RUSSELL, Alan. Modeling the electrical resistivity of deformation processed metal-metal composites. In *ACTA MATERIALIA*. ISSN 1359-6454, SEP 15 2014, vol. 77, p. 151-161., WOS
- [1.2] CHAKRABORTY, Abir - RAMAKRISHNAN, N. Prediction of electronic conductivity of a degrading electrode material using finite element method. In *Computational Materials Science*. ISSN 09270256, 2013-01-23, 69, pp. 455-465., SCOPUS
- [1.2] LIU, Zhiyong - ZHANG, Yunsheng - LIU, Laibao - JIANG, Qian. An analytical model for determining the relative electrical resistivity of cement paste and C-S-H gel. In *Construction and Building Materials*. ISSN 09500618, 2013-08-28, 48, pp. 647-655., SCOPUS
- [1.2] MORTENSEN, Andreas - CONDE, Yves - ROSSOLL, Andreas - SAN MARCHI, Chris. Scaling of conductivity and Young's modulus in replicated microcellular materials. In *Journal of Materials Science*. ISSN 00222461, 2013-12-01, 48, 23, pp. 8140-8146., SCOPUS

ADCA55      KOVÁČIK, Jaroslav - BIELEK, Jozef. Electrical conductivity of Cu/Graphite composite material as a function of structural characteristics. In *Scripta Materialia*, 1996, roč. 35, č. 2, s. 151-156.

Ohlasy:

[1.1]      JAGANNADHAM, Kasichainula. Electrical conductivity of copper graphene composite films synthesized by electrochemical deposition with exfoliated graphene platelets. In *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B*. ISSN 1071-1023, MAY-JUN 2012, vol. 30, no. 3., WOS

[1.1]      POPOV, V. V. - ORLOVA, T. S. - ENRIQUE MAGARINO, E. - BAUTISTA, M. A. - MARTINEZ FERNANDEZ, J. Specific features of electrical properties of porous biocarbons prepared from beech wood and wood artificial fiberboards. In *PHYSICS OF THE SOLID STATE*. ISSN 1063-7834, FEB 2011, vol. 53, no. 2, p. 276-283., WOS

[1.1]      ZHANG, J. - WANG, J. Y. - ZHOU, Y. C. Microstructure evolution of Zr<sub>2</sub>Al<sub>3</sub>C<sub>4</sub> in Cu matrix. In *JOURNAL OF MATERIALS RESEARCH*. ISSN 0884-2914, FEB 2011, vol. 26, no. 3, p. 372-383., WOS

[1.2]      HUSSAIN, Zuhailawati - ALMANAR, Indra Putra. Powder metallurgy of copper matrix composite: Properties and applications for spot welding electrodes. In *Powder Metallurgy of Copper Matrix Composite: Properties and Applications for Spot Welding Electrodes*, 2013-01-01, pp. 1-102., SCOPUS

[1.2]      KARDASHEV, Boris K. - ORLOVA, T. S. - SMIRNOV, B. I. - GUTIÉRREZ, Adriana Botero - RAMÍREZ-RICO, Joaquín Ramirez. Structure-mediated transition in the behavior of elastic and inelastic properties of beach tree bio-carbon. In *Physics of the Solid State*. ISSN 10637834, 2013-09-01, 55, 9, pp. 1884-1891., SCOPUS

[1.2]      LOPANOV, Alexander Nikolaevich - PRUSHKOVSKY, Igor Valentinovich - GUZEEVA, Oxana Nicolaevna - TIKHOMIROVA, Kseniya Vladimirovna. Technology of electrically conductive composites of alkaline earth metals carbonates and carbon dispersions. In *ARNP Journal of Engineering and Applied Sciences*, 2014-01-01, 9, 11, pp. 2275-2278., SCOPUS

[1.2]      LOPANOV, Alexander Nikolaevich - FANINA, Evgenia Aleksandrovna - GUZEEVA, Oxana Nicolaevna. Cement-quartz electrically conductive composites based on graphite dispersions. In *ARNP Journal of Engineering and Applied Sciences*, 2014-01-01, 9, 11, pp. 2250-2253., SCOPUS

[1.2]      MENEZES, P.L. - ROHATGI, P.K. - LOVELL, M.R. Self-Lubricating Behavior of Graphite Reinforced Metal Matrix Composites. In *Green Energy and Technology*, 2012, 49, pp. 445-480., SCOPUS

[1.2]      RAJKUMAR, Kuppusamy - ARAVINDAN, Sivanandam. Tribological behavior of microwave processed copper-nanographite composites. In *Tribology International*. ISSN 0301679X, 2013-01-01, 57, pp. 282-296., SCOPUS

[1.2]      XIE, Guoxin - XIE, Guoxin - FORSLUND, Mattias - PAN, Jinshan. Direct electrochemical synthesis of reduced graphene oxide (rGO)/copper composite films and their electrical/electroactive properties. In *ACS Applied Materials and Interfaces*. ISSN 19448244, 2014-05-28, 6, 10, pp. 7444-7455., SCOPUS

ADCA56      KOVÁČIK, Jaroslav. The tensile behaviour of porous metals made by Gasar process. In *Acta materialia*, 1998, roč. 46, č. č15, s. 5413-5422.

Ohlasy:

- [1.1] GHERIBI, Aimen E. - GARDAREIN, Jean-Laurent - RIGOLLET, Fabrice - CHARTRAND, Patrice. Evidence of second order transition induced by the porosity in the thermal conductivity of sintered metals. In APL MATERIALS. ISSN 2166-532X, JUL 2014, vol. 2, no. 7., WOS
- [1.1] CHEN LIUTAO - ZHANG HUAWEI - LIU YUAN - LI YANXIANG. EXPERIMENTAL RESEARCH ON HEAT TRANSFER PERFORMANCE OF DIRECTIONALLY SOLIDIFIED POROUS COPPER HEAT SINK. In ACTA METALLURGICA SINICA. ISSN 0412-1961, MAR 11 2012, vol. 48, no. 3, p. 329-333., WOS
- [1.1] KUMAR, A. - GU, S. - TABBARA, H. - KAMNIS, S. Study of impingement of hollow ZrO<sub>2</sub> droplets onto a substrate. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, APR 15 2013, vol. 220, p. 164-169., WOS
- [1.1] LI ZAIJIU - YANG TIANWU - JIN QINGLIN - JIANG YEHUA - ZHOU RONG. Influence of Structural Parameters on Tensile Property of Gasar Porous Copper. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, NOV 2014, vol. 43, no. 11, p. 2609-2613., WOS
- [1.1] LIU, P.S. - CHEN, G.F. - DUAN, C.Y. Prediction of Young's modulus and Poisson ratio for foamed metals using octahedron model. In MATERIALS SCIENCE AND TECHNOLOGY. ISSN 0267-0836, OCT 2011, vol. 27, no. 10, p. 1498-1501., WOS
- [1.1] LIU, Xin-Hua - LIU, Xue-Feng - XIE, Jian-Xin. The Investigation of Fabrication Processing for Lotus-type Porous Magnesium by the In-situ Reaction and Unidirectional Solidification Method. In IUMRS INTERNATIONAL CONFERENCE IN ASIA 2011. ISSN 1877-7058, 2012, vol. 36, p. 270-278., WOS
- [1.1] LI, Zaijiu - YANG, Tianwu - JIN, Qinglin - LI, Zhenhua - JIANG, Yehua - ZHOU, Rong. Compressive behaviours of lotus-type porous copper fabricated by Gasar process. In INTERNATIONAL CONFERENCE ON ADVANCES IN COMPUTATIONAL MODELING AND SIMULATION. ISSN 1877-7058, 2012, vol. 31, p. 337-342., WOS
- [1.1] LI, Z.J. - PENG, Z. - JIN, Q.L. - LI, Z.H. - JIANG, Y.H. - ZHOU, R. Tensile Properties of Lotus-Type Porous Cu Made by Gasar Process. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, NOV 2013, vol. 42, p. 508-512., WOS
- [1.1] MAKAROVIC, K. - BENCAN, A. - HROVAT, M. - HOLC, J. - MALIC, B. - KOSEC, M. - BERMEJO, R. - KRALEVA, I. The Effect of Phase Composition on the Mechanical Properties of LTCC Material. In INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY. ISSN 1546-542X, MAY-JUN 2013, vol. 10, no. 3, p. 449-457., WOS
- [1.1] MAZEL, V. - BUSIGNIES, V. - DIARRA, H. - TCHORELOFF, P. On the Links Between Elastic Constants and Effective Elastic Behavior of Pharmaceutical Compacts: Importance of Poisson's Ratio and Use of Bulk Modulus. In JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 0022-3549, NOV 2013, vol. 102, no. 11, p. 4009-4014., WOS
- [1.1] OLGA, Komissarchuk - XU ZHENGBIN - HAI, Hao - ZHANG XINGLU - KARPOV, Vladimir. Pore structure and mechanical properties of directionally solidified porous aluminum alloys. In CHINA FOUNDRY. ISSN 1672-6421, JAN 2014, vol. 11, no. 1, p. 1-7., WOS



- [1.1] WANG, Aimin - WANG, Wei - LONG, Chang - LI, Wei - GUAN, Jianguo - GU, Haoshuang - XU, Guangxin. Facile preparation, formation mechanism and microwave absorption properties of porous carbonyl iron flakes. In JOURNAL OF MATERIALS CHEMISTRY C. ISSN 2050-7526, 2014, vol. 2, no. 19, p. 3769-3776., WOS
- [1.1] ZABULIONIS, D. - KIZINIEVIC, O. - KIZINIEVIC, V. A Porosity Prediction Methodology of Building Ceramics with Burning-out Additives. In MODERN BUILDING MATERIALS, STRUCTURES AND TECHNIQUES. ISSN 1877-7058, 2013, vol. 57, p. 1278-1287., WOS
- [1.1] ZHANG, H.W. - CHEN, L.T. - LIU, Y. - LI, Y.X. Experimental study on heat transfer performance of lotus-type porous copper heat sink. In INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER. ISSN 0017-9310, JAN 1 2013, vol. 56, no. 1-2, p. 172-180., WOS
- [1.2] LI, Yugeng - JIN, Qinglin - YANG, Tianwu - LI, Zaijiu. Influence of solidification rate on pore structure of lotus-type porous metals. In Cailiao Yanjiu Xuebao/Chinese Journal of Materials Research. ISSN 10053093, 2014-01-01, 28, 6, pp. 476-480., SCOPUS
- [1.2] NAKAJIMA, Hideo - NAKAJIMA, Hideo. Porous metals with directional pores. In Porous Metals with Directional Pores, 2014-04-01, pp. 1-284., SCOPUS
- [1.2] PENG, Z. - YANG, T.W. - LI, Z.J. - LI, Z.H. - JIN, Q.L. - ZHOU, R. Tensile properties and anisotropy of ordered porous copper. In Zhongguo Youse Jinshu Xuebao/Chinese Journal of Nonferrous Metals. ISSN 1004-0609, 2011, vol. 21, no. 5, p. 1045-1051., SCOPUS
- [1.2] SHEN, F.-H. - LI, Z.-J. - YANG, T.-W. - JIN, Q.-L. - JIANG, Y.-H. - ZHOU, R. Dry tribological property of a new self-lubricating material fabricated with ordered porous copper. In Mocaxue Xuebao/Tribology, 2012, 32, 2, pp. 150-156., SCOPUS
- [1.2] YANG, T. - ZHOU, R. - JIN, Q. - LI, Z. - LI, Z. - JIANG, Y. Idea structural analysis of directional porous metal. In Tezhong Zhuzao Ji Youse Hejin/Special Casting and Nonferrous Alloys, 2012, 32, 5, pp. 400-403., SCOPUS
- [1.2] YUSOP, A.H. - BAKIR, A.A. - SHAHAROM, N.A. - ABDUL KADIR, M.R. - HERMAWAN, H. Porous biodegradable metals for hard tissue scaffolds: A review. In International Journal of Biomaterials, 2012, pp., SCOPUS

ADCA57 KOZA, Elzbieta - LEONOWICZ, M. - WOJCIECHOWSKI, S. - SIMANČÍK, František. Compressive strength of aluminium foams. In *Materials Letters*, 2004, vol.58, nos.1-2, p.132-135.

Ohlasy:

- [1.1] BASTURK, S.B. - TANOGLU, M. Mechanical and energy absorption behaviors of metal/polymer layered sandwich structures. In JOURNAL OF REINFORCED PLASTICS AND COMPOSITES. ISSN 0731-6844, SEP 2011, vol. 30, no. 18, p. 1539-1547., WOS
- [1.1] CAO, Z.K. - LIU, H. - DU, J.J. - YAO, G.C. Preparation of High Performance Aluminum Foam Using Carbon Fibers as Stabilizing Additive. In ADVANCED DESIGN TECHNOLOGY, PTS 1-3. ISSN 1022-6680, 2011, vol. 308-310, Part 1-3, p. 53-57., WOS
- [1.1] MALEKJAFARIAN, M. - SADRNEZHAAD, S. K. Closed-cell Al alloy composite foams: Production and characterization. In MATERIALS &

DESIGN. ISSN 0261-3069, DEC 2012, vol. 42, p. 8-12., WOS

[1.1] RAJ, R.E. - DANIEL, B.S.S. Customization of closed-cell aluminum foam properties using design of experiments. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, FEB 25 2011, vol. 528, no. 4-5, p. 2067-2075., WOS

[1.1] STRANO, M. A New FEM Approach for Simulation of Metal Foam Filled Tubes. In JOURNAL OF MANUFACTURING SCIENCE AND ENGINEERING-TRANSACTIONS OF THE ASME. ISSN 1087-1357, DEC 2011, vol. 133, no. 6., WOS

[1.1] STRANO, M. METAL FOAM FILLED HYDROFORMED TUBES: PRODUCTION AND FEM SIMULATION. In PROCEEDINGS OF THE ASME INTERNATIONAL MANUFACTURING SCIENCE AND ENGINEERING CONFERENCE 2010, VOL 1. 2011, p. 695-704., WOS

[1.1] TURKER, M. Production of Ceramics Reinforced Al Foams by Powder Metallurgy Techniques. In RESEARCHES IN POWDER METALLURGY. ISSN 0255-5476, 2011, vol. 672, p. 39-46., WOS

[1.1] WANG, L. - MU, Y.L. - YAO, G.C. Density Dependence of the Compressive Behaviors of Closed-Cell Al Foams Manufactured Through Powder Metallurgy Route. In JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE. ISSN 1059-9495, APR 2011, vol. 20, no. 3, p. 390-393., WOS

[1.1] ZARE, J. - MANESH, H.D. A novel method for producing of steel tubes with Al foam core. In MATERIALS & DESIGN. ISSN 0261-3069, MAR 2011, vol. 32, no. 3, p. 1325-1330., WOS

[1.1] ZU, Guoyin - YAO, Guangchun. Influence of Cell Shape Anisotropy on the Compressive Property of Closed-Cell Al-Si Alloy Foam. In JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE. ISSN 1059-9495, JUN 2012, vol. 21, no. 6, p. 985-987., WOS

[1.2] AHMADIAN, M. T. - ALKHANI, R. - GOBAL, A. - GOBAL, A. Development of empirical equations for prediction of modulus of elasticity for monodisperse metallic foams. In Scientia Iranica. ISSN 10263098, 2014-01-01, 21, 6, pp., SCOPUS

[1.2] AHMADIAN, M.T. - GOBAL, A. - ALKHANI, R. Estimation of modulus of elasticity for closed-cell aluminum foam. In ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE), 2012, 3, pARTS A, pp. 1285-1289., SCOPUS

[1.2] ALIZADEH, M. - MIRZAEI-ALIABADI, M. Compressive properties and energy absorption behavior of Al-Al<sub>2</sub>O<sub>3</sub> composite foam synthesized by space-holder technique. In Materials and Design, 2012, 35, pp. 419-424., SCOPUS

[1.2] DEQING, Wang. Relation of cell uniformity and mechanical property of a close cell aluminum foam. In Advanced Engineering Materials. ISSN 14381656, 2013-03-01, 15, 3, pp. 175-179., SCOPUS

[1.2] HASHIM, U. R. - JUMAHAT, A. - ISMAIL, M. H. - RAZALI, R. N M. Fabrication and characterisation of carbon fibre reinforced polymer rods with aluminium foam core. In Materials Research Innovations. ISSN 14328917, 2014-01-01, 18, pp. S6-204., SCOPUS

[1.2] HUANG, Y. - GONG, J. - LV, S. - LENG, J. - LI, Y. Fluxless soldering with surface abrasion for joining metal foams. In Materials Science and

Engineering A, 2012, 552, pp. 283-287., SCOPUS

[1.2] HUIMING, Z. - XIANG, C. - XUELIU, F. - YANXIANG, L. Compressive properties of aluminum foams by gas injection method. In China Foundry, 2012, 9, 3, pp. 215-220., SCOPUS

[1.2] JASION, Paweł - MAGNUCKI, Krzysztof. Global buckling of a sandwich column with metal foam core. In Journal of Sandwich Structures and Materials. ISSN 10996362, 2013-11-01, 15, 6, pp. 718-732., SCOPUS

[1.2] JASION, P. - MAGNUCKA-BLANDZI, E. - SZYC, W. - MAGNUCKI, K. Global and local buckling of sandwich circular and beam-rectangular plates with metal foam core. In Thin-Walled Structures, 2012, 61, pp. 154-161., SCOPUS

[1.2] KNAPEK, Michal - DOBRON, Patrik - CHMELÍK, František - ZIMINA, Mariia - PEŠICKA, Josef - COMBAZ, Etienne - MORTENSEN, Andreas. Deformation of Open-Cell Microcellular Pure Aluminum Investigated by the Acoustic Emission Technique. In Light Metals 2014, 2014-03-10, pp. 337-342., SCOPUS

[1.2] LÁZARO, Jaime C. - LAGUNA-GUTIÉRREZ, Ester - SOLÓRZANO, Eusebio - RODRÍGUEZ-PÉREZ, Miguel Ángel. Effect of microstructural anisotropy of PM precursors on the characteristic expansion of aluminum foams. In Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science. ISSN 10735615, 2013-08-01, 44, 4, pp. 984-991., SCOPUS

[1.2] LIU, Huan - CAO, Zhuokun - LUO, Hongjie - SHI, Jianchao - YAO, Guangchun. Performance of closed-cell aluminum foams subjected to impact loading. In Materials Science and Engineering A. ISSN 09215093, 2013-05-15, 570, pp. 27-31., SCOPUS

[1.2] LIU, H. - YAO, G. - CAO, Z. Energy absorption of aluminum foam-filled tubes under quasi-static axial loading. In TMS Light Metals, 2012, pp. 517-520., SCOPUS

[1.2] LI, A.-B. - XU, H.-Y. - GENG, L. - LI, B.-L. - TAN, Z.-B. - REN, W. Preparation and characterization of SiC p/2024Al composite foams by powder metallurgy. In Transactions of Nonferrous Metals Society of China (English Edition), 2012, 22, sUPPL. 1, pp. s33-s38., SCOPUS

[1.2] NURASHIKIN, S. - HAZIZAN, A. Preparation and properties of thermoplastic honeycomb core sandwich structure with aluminum skin. In Journal of Composite Materials, 2012, 46, 2, pp. 183-191., SCOPUS

[1.2] SOLTANI, R. - SARAJAN, Z. - SOLTANI, M. Foaming of pure aluminium by TiHinf2/inf. In Materials Research Innovations. ISSN 14328917, 2014-01-01, 18, 6, pp. 401-406., SCOPUS

[1.2] SU, Buyun - ZHOU, Zhiwei - WANG, Zhihua - LI, Zhiqiang - SHU, Xuefeng. Effect of defects on creep behavior of cellular materials. In Materials Letters. ISSN 0167577X, 2014-12-01, 136, pp. 37-40., SCOPUS

[1.2] UTSUNOMIYA, T. - TAKAHASHI, K. - KATO, H. - HANGAI, Y. - KITAHARA, S. - KUWAZURU, O. - YOSHIKAWA, N. Fabrication of ADC12 porous aluminum with graded porosities and pore structures. In Keikinzoku/Journal of Japan Institute of Light Metals, 2012, 62, 7, pp. 278-284., SCOPUS

[1.2] WAN, Z. - LIU, B. - ZHOU, W. - TANG, Y. - HUI, K.S. - HUI, K.N. Experimental study on shear properties of porous metal fiber sintered sheet. In Materials Science and Engineering A, 2012, 544, pp. 33-37., SCOPUS

[1.2] XIA, X. - ZHAO, W. - WEI, Z. - WANG, Z. Effects of specimen aspect

ratio on the compressive properties of Mg alloy foam. In *Materials and Design*, 2012, 42, pp. 32-36., SCOPUS

[1.2] YUN, Nu Ri - SHIN, Dong Hoon - JI, Sung Woong - SHIM, Chang Su. Experiments on blast protective systems using aluminum foam panels. In *KSCE Journal of Civil Engineering*. ISSN 12267988, 2014-01-01, 18, 7, pp. 2153-2161., SCOPUS

[1.2] ZHOU, W. - TANG, Y. - LIU, B. - SONG, R. - JIANG, L. - HUI, K.S. - HUI, K.N. - YAO, H. Compressive properties of porous metal fiber sintered sheet produced by solid-state sintering process. In *Materials and Design*, 2012, 35, pp. 414-418., SCOPUS

ADCA58 KROPÁČ, Oldřich - MÚČKA, Peter. Alternative single-number indicator of longitudinal road unevenness. In *Canadian Journal of Civil Engineering*, 2009, vol. 36, no.3, pp.389-401. (0.291 - IF2008). ISSN 1208-6029.

Ohlasy:

[3] ADAMS, Jordan, The Feasibility of a Road Vehicle Mounted Aerodynamic Testing Apparatus. [MSc Thesis]. University of Cape Town, Department of Mechanical Engineering, Rondebosch, Cape Town, South Africa, 2011, 138 p.

[3] BARBOSA, Roberto Spinola. Vehicle Vibration Response Subjected to Longwave Measured Pavement Irregularity. In *JOURNAL OF MECHANICAL ENGINEERING AND AUTOMATION*. ISSN 2163-2405, 2012, Vol. 2, No. 2, pp. 17-24.

[3] KAWALE, Sujay J. Implication of Terrain Topology Modelling on Ground Vehicle Reliability [Master's Thesis], Virginia Polytechnic Institute and State University, VI, USA, 2011, 97 p.

ADCA59 KROPÁČ, Oldřich - MÚČKA, Peter. Be careful when using the International Roughness Index as an indicator of road unevenness. In *Journal of Sound and Vibration*, 2005, vol. 287, p. 989-1003. ISSN 0022-460 X.

Ohlasy:

[1.1] HEYNS, T. - DE VILLIERS, J. P. - HEYNS, P. S. Consistent haul road condition monitoring by means of vehicle response normalisation with Gaussian processes. In *ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE*. ISSN 0952-1976, DEC 2012, vol. 25, no. 8, p. 1752-1760., WOS

[1.1] KAMIYA, Keizo - YAMAGUCHI, Kiyohito - KAWAMURA, Akira - TOMIYAMA, Kazuya. A study on profile improvement in pavement repair. In *ASPHALT PAVEMENTS, VOLS 1 AND 2*. 2014, p. 481-487., WOS

[1.1] LU, Pan - TOLLIVER, Denver. Pavement Treatment Short-Term Effectiveness in IRI Change Using Long-Term Pavement Program Data. In *JOURNAL OF TRANSPORTATION ENGINEERING-ASCE*. ISSN 0733-947X, NOV 2012, vol. 138, no. 11, p. 1297-1302., WOS

[1.1] MA, R. - CHEMISTRUCK, H. - FERRIS, J.B. State-of-the-art of terrain profile characterisation models. In *INTERNATIONAL JOURNAL OF VEHICLE DESIGN*. ISSN 0143-3369, 2013, vol. 61, no. 1-4, p. 285-304., WOS

[1.1] TAUTAN, M. N. - MICLOS, S. - SAVASTRU, D. - STOICA, A. Longitudinal road profile reconstruction from dual laser scans. In *OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS*. ISSN 1842-6573, JUL-AUG 2014, vol. 8, no. 7-8, p.

622-625., WOS

- [1.2] DUAN, Hu-ming – SHI, Feng – ZHAO, Yong-jie – WANG, Hong-gang - XIE, Fei. Research and practice of road surface profile measurement, In ZHENDONG YU CHONGJI/JOURNAL OF VIBRATION AND SHOCK, ISSN: 1000-3835, 2011, Vol. 30, No. 3, pp. 155-160, SCOPUS
- [1.2] LI, X. - LU, Z. - XI, X. - ZHAO, M. 3D reconstruction of transportation vehicles traveling pavement based on fractal characteristics. In Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering, 2012, 28, 2, pp. 61-65., SCOPUS
- [1.2] SEZGIN, A. - ULUS, T. - YAGIZ, N. The modeling and simulation of a half vehicle model with driver. In 18th INTERNATIONAL CONGRESS ON SOUND AND VIBRATION - ICSV 2011, Vol. 3, 10 - 14 July 2011, Rio de Janeiro, Brasil, pp. 2406-2413, ISBN: 978-161839259-6., SCOPUS
- [1.2] YANG, H. - YU, S.C. - WANG, Q.S. - YUAN, H.W. - WU, Y.S. Effect of random road incentives on measurement performance of vehicle line-scan camera. In Nanjing Li Gong Daxue Xuebao/Journal of Nanjing University of Science and Technology. ISSN 1005-9830, 2011, vol. 35 (SUPPL. 2), p. 46-51., SCOPUS
- [3] ADAMS, Jordan. The Feasibility of a Road Vehicle Mounted Aerodynamic Testing Apparatus. [MSc Thesis]. University of Cape Town, Department of Mechanical Engineering, Rondebosch, Cape Town, South Africa, 2011, 138 p.
- [3] CENEK, Peter - JAMIESON, Neil. Quantification of Safety Benefits Resulting from Road Smoothing. Central Laboratories Report 12-529B39, Opus International Consultants Limited, New Zealand, 2012, 64 p.
- [3] DeWITTE, T. Study of the dynamic behaviour of the racing bicycle and interactions with road and rider. [MSc Thesis]. Faculteit Ingenieurswetenschappen en Architectuur, Universiteit Gent, Gent, Belgium, 2011, 173 p.
- [3] DUAN, H.M – XIE, F. – ZHANG, K.B. – SHI, F. – MA, Y. Key Technologies Research of Road Surface Data Management System of Chinese Typical Road (in Chinese). In PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ON SYSTEM MODELING, SIMULATION AND ENGINEERING MATHEMATICS - SMSEM 2011, 22-24 April 2011, Huazhong University of Science and Technology, China, 2011, Wuhan, China, pp. 551-556.
- [3] HEYNS, Theo. Low cost condition monitoring under time-varying operating conditions. [PhD Thesis]. Department of Electrical, Electronic & Computer Engineering, Faculty of Engineering, Built Environment and Information Technology, University of Pretoria, 2013, 163 p. Web info: <http://hdl.handle.net/2263/33371>
- [3] KAWALE, Sujay J. Implication of Terrain Topology Modelling on Ground Vehicle Reliability [Master's Thesis], Virginia Polytechnic Institute and State University, VI, USA. 2011, 97 p.
- [3] KHAVASSEFAT, Parisa. Vehicle-Pavement Interaction. [PhD Thesis]. KTH Royal Institute of Technology, Department of Transport Science, Stockholm, Sweden, 2014. ISBN 978-91-87353-57-4. Dostupné na internete: <http://kth.diva-portal.org/smash/get/diva2:764220/FULLTEXT01.pdf>
- [3] MHANNA, Mohannad. Analyse des vibrations induites par le trafic routier et étude de l'efficacité des systèmes de réduction de ces vibrations [PhD

Thesis]. Laboratoire de génie civil et géo-environnement Université Lille - Sciences et Technologies, France, 2012.

[3] OUAHI, Mohamed. Observation de systemes a entrées inconnues, applications a la dynamique automobile. [PhD Thesis]. [in French]. Université de Limoges, Limoges, France, 2011, 204 p.

[3] ROBLEDO RICARDO, Luis. Nonlinear Stochastic Analysis of Motorcycle Dynamics. [Doctoral Thesis]. Rice University, Houston, Texas, USA, 2013, 174 p. Web info: <http://hdl.handle.net/1911/72032>.

[3] SAIHI, Mostepha. Effet des sollicitations de la route sur les pièces de suspension en aluminium [MSc Thesis], ISBN 9781412318242, Université du Québec à Chicoutimi, Quebec, Canada, 110 p.

[3] SEZGIN, Aziz - ULUS, Tümer - YAGIZ, Nurkan. The Modeling and Simulation of a Half-Vehicle Model with Driver. In INT. CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING - AME 2011, Noida, India, Association of Mechanical and Aeronautical Engineers, NY, USA, 20-21 December 2011, pp. 22-26.

[3] SEZGIN, A. – YAGIZ, N. Analysis of Passenger Ride Comfort. In MATEC WEB OF CONFERENCES, CSNDD 2012 – INTERNATIONAL CONFERENCE ON STRUCTURAL NONLINEAR DYNAMICS AND DIAGNOSIS, Eds. M. Belhaq and R. Ibrahim, Marrakech, Morocco, April 30-May 2, 2012, Vol. 1, Article number 03003, 2012.

[3] SEZGİN, Aziz - ARSLAN, Yunus Ziya - YAĞIZ, Nurkan. Yol kaynaklı taşıt titreşimlerinin insan vücudu üzerindeki etkisinin kayan kipli kontrolcü ile azaltılması / Decreasing the effect of road induced vibrations on human body by sliding mode controller. In 16. ULUSAL MAKİNA TEORİSİ SEMPOZYUMU - UMTS 2013, Ed. ŞAKAR, Gürkan, Atatürk Üniversitesi, Mühendislik Fakültesi, 12-13 Eylül, 2013, pp. 34-41.

[3] WILLIAMS, David - SPENCER, Robert - RAPLEY, Francesca – ZAMANI, Khairul - SCHOFIELD, Morgan – FRAZER, Mike. Multi Disciplinary Design Project 2012/2013 - Advanced City Bus. [Report]. Faculty of Engineering and Physical Sciences, University of Surrey, Guildford, UK, 2013.

[3] XIA, Jun-zhong – MA, Zong-po – BAI, Yun-chuan – SU, Tao – LENG, Yong-gang. State of the Research on Model for Road Roughness Excitation. In NOISE AND VIBRATION CONTROL. ISSN 1006-1355, 2012, Vol. 32, No. 5, pp. 1-5. Dostupné na internete: <http://www.docin.com/p-783470795.html>

ADCA60 KROPÁČ, Oldřich - MÚČKA, Peter. Classification scheme for random longitudinal road unevenness considering road waviness and vehicle response. In *Shock and Vibration*, 2009, vol.16, p.273-289. (0.465 - IF2008). (2009 - Current Contents). ISSN 1070-9622.

Ohlasy:

[1.1] LAK, M.A. - DEGRANDE, G. - LOMBAERT, G. The effect of road unevenness on the dynamic vehicle response and ground-borne vibrations due to road traffic. In SOIL DYNAMICS AND EARTHQUAKE ENGINEERING. ISSN 0267-7261, OCT 2011, vol. 31, no. 10, p. 1357-1377., WOS

[3] SAIHI, Mostepha. Effet des sollicitations de la route sur les pièces de suspension en aluminium [MSc Thesis], ISBN 9781412318242, Université du Québec à Chicoutimi, Quebec, Canada, 110 p.

ADCA61 KROPÁČ, Oldřich - MÚČKA, Peter. Deterioration Model of Longitudinal Road Unevenness Based on its Power Spectral Density Indices. In *Road Materials and Pavement Design*, 2008, vol. 9, no. 3, p.389-420. ISSN 1468-0629.

Ohlasy:

[3.1] KHAVASSEFAT, Parisa – JELAGIN, Denis – BIRGISSON, Björn. The effect of road surface deterioration on pavement service life. In PROCEEDINGS OF THE 13TH INTERNATIONAL SYMPOSIUM ON HEAVY VEHICLE TRANSPORT TECHNOLOGY (HVTT13). International Forum for Road Transport Technology, San Luis, Argentina, 27-31 October 2014.

[3.1] KHAVASSEFAT, Parisa. Vehicle-Pavement Interaction. [PhD Thesis]. KTH Royal Institute of Technology, Department of Transport Science, Stockholm, Sweden, 2014. ISBN 978-91-87353-57-4. Dostupné na internete: <http://kth.diva-portal.org/smash/get/diva2:764220/FULLTEXT01.pdf>

ADCA62 KROPÁČ, Oldřich - MÚČKA, Peter. Effect of obstacles in the road profile on the dynamic response of a vehicle. In *Proceedings of the Institution of Mechanical Engineers Part D : Journal of Automobile Engineering*, 2008, vol. 222, p.353-370.

Ohlasy:

[1.1] WANG, Q. - MCDANIEL, J.G. - SUN, N.X. - WANG, M.L. Road profile estimation of city roads using DTPS. In SENSORS AND SMART STRUCTURES TECHNOLOGIES FOR CIVIL, MECHANICAL, AND AEROSPACE SYSTEMS 2013. ISSN 0277-786X, 2013, vol. 8692., WOS

[1.2] LIU, Dawei - JIANG, RongChao - YANG, Yuedong - WANG, Song. Simulation study of heavy vehicle road-friendliness under bilateral tracks' excitation. In *Advanced Materials Research*. ISSN 10226680, 2013-04-29, 680, pp. 422-428., SCOPUS

[1.2] LIU, D. - CHEN, R.J.H. - WANG, S. Simulation of dynamic load for heavy vehicle under bilateral tracks' road excitation. In *Advances in Civil Engineering and Building Materials Selected Peer Reviewed Papers from 2012 2nd International Conference on Civil Engineering and Building Materials, CEBM 2012*, 2012, pp. 883-886., SCOPUS

[1.2] LIU, D. - JIANG, R. - CHEN, H. - YAN, T. Simulation of road-friendliness of heavy vehicle on 3-D random road. In *Nongye Jixie Xuebao/Transactions of the Chinese Society of Agricultural Machinery*, 2012, 43, 12, pp. 16-21+10., SCOPUS

[1.2] SUN, G. - LI, M. - LIM, T.C. Modified filtered-x LMS algorithm for active control of vehicle road impact noise. In *41st International Congress and Exposition on Noise Control Engineering 2012, INTER-NOISE 2012*, 2012, 1, pp. 58-69., SCOPUS

[1.2] YANG, H. - YU, S.C. - WANG, Q.S. - YUAN, H.W. - WU, Y.S. Effect of random road incentives on measurement performance of vehicle line-scan camera. In *Nanjing Li Gong Daxue Xuebao/Journal of Nanjing University of Science and Technology*. ISSN 1005-9830, 2011, vol. 35 (SUPPL. 2), p. 46-51., SCOPUS

[3] DAHUNSI, Olurotimi Akintunde. Neural Network-Based Controller Designs for Active Vehicle Suspension Systems. [PhD Thesis]. Faculty of Engineering and the Built Environment, University of the Witwatersrand, Johannesburg, South Africa, 2013. 227 p.

[3] JIANG, Rongchao - LIU, Dawei - WANG, Song - KANG, Zhongliang.

Simulation Analysis of Heavy-duty Vehicle Dynamic Load under Road Excitation in Time Domain and Spatial Domain, In GONGLU JIAOTONG KEJI / JOURNAL OF HIGHWAY AND TRANSPORTATION RESEARCH AND DEVELOPMENT, ISSN 1002-0268, 2012, Vol. 29, No. 5, pp. 152-158.

[3] LIU, Fei – LIANG, Shan – ZHU, Qin – XIONG, Qingyu – SUN, Yongsheng. The chaotic vibration of a nonlinear vehicle model under the consecutive speed humps. In SCIENCEPAPER ONLINE, Available at <http://www.paper.edu.cn/releasepaper/content/201206-362>.

ADCA63 KROPÁČ, Oldřich - MÚČKA, Peter. Effect of obstacles on roads with different waviness values on the vehicle response. In *Vehicle System Dynamics*, 2008, vol. 46, no.3. (0.367 - IF2007). (2008 - Current Contents). ISSN 0042-3114.

Ohlasy:

[1.1] GARCIA-POZUELO, Daniel - GAUCHIA, Antonio - OLMEDA, Ester - DIAZ, Vicente. Bump Modeling and Vehicle Vertical Dynamics Prediction. In *ADVANCES IN MECHANICAL ENGINEERING*. ISSN 1687-8132, 2014., WOS

ADCA64 KROPÁČ, Oldřich - MÚČKA, Peter. Effects of longitudinal road waviness on vehicle vibration response. In *Vehicle System Dynamics*, 2009, vol. 47, no.2, p.135-153. (0.724 - IF2008). (2009 - Current Contents). ISSN 0042-3114.

Ohlasy:

[1.1] OLIVA, J. - ASTIZ, M.A. - GOICOLEA, J.M. - ANTOLIN, P. Fully three-dimensional vehicle dynamics over rough pavement. In *PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-TRANSPORT*. ISSN 0965-092X, JUN 2013, vol. 166, no. 3, p. 144-157., WOS

[1.1] SEZGIN, Aziz - ARSLAN, Yunus Ziya. Analysis of the vertical vibration effects on ride comfort of vehicle driver. In *JOURNAL OF VIBROENGINEERING*. ISSN 1392-8716, JUN 2012, vol. 14, no. 2, SI, p. 559-571., WOS

[1.2] BAK, JeongHyeon - LEE, Kwanghee - PARK, JeongLyul - LEE, Chulhee - LEE, Eunsang - KIM, NamKyung. Development of active vibration control system for driveshafts. In *SAE Technical Papers*, 2013-06-25, 1, pp., SCOPUS

[1.2] QIN, Yechen - LANGARI, Reza - GU, Liang. The use of vehicle dynamic response to estimate road profile input in time domain. In *ASME 2014 Dynamic Systems and Control Conference, DSCC 2014*, 2014-01-01. ISBN: 978-0-7918-4619-3, 2, pp., SCOPUS

[3] BARBOSA, Roberto Spinola. Vehicle Vibration Response Subjected to Longwave Measured Pavement Irregularity. In *JOURNAL OF MECHANICAL ENGINEERING AND AUTOMATION*. ISSN 2163-2405, 2012, Vol. 2, No. 2, pp. 17-24.

[3] OLIVA QUECEDO J. - ANTOLÍN SÁNCHEZ, P. - GOICOLEA, J. M. - ASTIZ, M. Á. Dynamic analysis of road vehicle-bridge systems under turbulent wind by means of Finite Element Models. In *PROCEEDINGS OF THE 8TH INTERNATIONAL CONFERENCE ON STRUCTURAL DYNAMICS - EURODDYN 2011*, Eds. G. De Roeck, G. Degrande, G. Lombaert, G. Muller, Leuven, Belgium, 4-6 July 2011, pp. 1481-1488. ISBN 978-90-760-1931-4.

[3] OLIVA, Javier. Estudio de la estabilidad del tráfico en puentes de carretera. Influencia del viento lateral. [PhD Thesis]. Escuela de Ingenieros de



Caminos, Universitat Politecnica de Madrid, Madrid, Spain, 2011, 341 p.

[3] YAO, Ming-tao – GUAN, Ji-fu – GU, Liang. Research on Road Identification Based on Vehicle Vibration Acceleration Response. In *TRACTOR & FARM TRANSPORTER*, 2011, Vol. 38, No. 1, p. 28-31. doi: 10.3969/j.issn.1006-0006.2011.01.008. Dostupné na internete: <http://www.doc88.com/p-493189752978.html>

ADCA65 KROPÁČ, Oldřich - MÚČKA, Peter. Estimation of Waviness of the Longitudinal Road Profile from Straightedge Measurement. In *Journal of Transportation Engineering ASCE*, 2009, vol.135, no.11, p.801-812. (0.665 - IF2008). ISSN 0733-947X.

Ohlasy:

[1.2] KUO, C.-M. - TSAI, T.-Y. Guidelines of roadway undulation measurements with straightedges. In *International Journal of Pavement Research and Technology*, 2012, 5, 1, pp. 62-67., SCOPUS

[3] ADAMS, Jordan, The Feasibility of a Road Vehicle Mounted Aerodynamic Testing Apparatus. [MSc Thesis]. University of Cape Town, Department of Mechanical Engineering, Rondebosch, Cape Town, South Africa, 2011, 138 p.

ADCA66 KROPÁČ, Oldřich - MÚČKA, Peter. Indicators of longitudinal unevenness of roads in the USA. In *International Journal of Vehicle Design*, 2008, vol. 46, no.4, p.393-415. ISSN 0143-3369.

Ohlasy:

[1.1] JOHANNESSON, Par - RYCHLIK, Igor. Modelling of road profiles using roughness indicators. In *INTERNATIONAL JOURNAL OF VEHICLE DESIGN*. ISSN 0143-3369, 2014, vol. 66, no. 4, p. 317-346., WOS

[1.1] KOLLMER, H. - KUCUKAY, F. - POTTER, K. Measurement and fatigue damage evaluation of road profiles in customer operation. In *INTERNATIONAL JOURNAL OF VEHICLE DESIGN*. ISSN 0143-3369, 2011, vol. 56, no. 1-4, p. 106-124., WOS

[3] BARBOSA, Roberto Spinola. Vehicle Vibration Response Subjected to Longwave Measured Pavement Irregularity. In *JOURNAL OF MECHANICAL ENGINEERING AND AUTOMATION*, ISSN 2163-2405, 2012, Vol. 2, no. 2, pp. 17-24.

ADCA67 KROPÁČ, Oldřich - MÚČKA, Peter. Indicators of Longitudinal Road Unevenness and their Mutual Relationships. In *Road Materials and Pavement Design*. ISSN 1468-0629.

Ohlasy:

[1.1] JOHANNESSON, Par - RYCHLIK, Igor. Modelling of road profiles using roughness indicators. In *INTERNATIONAL JOURNAL OF VEHICLE DESIGN*. ISSN 0143-3369, 2014, vol. 66, no. 4, p. 317-346., WOS

[1.1] JOHANNESSON, P. - RYCHLIK, I. Laplace processes for describing road profiles. In *FATIGUE DESIGN 2013, INTERNATIONAL CONFERENCE PROCEEDINGS*. ISSN 1877-7058, 2013, vol. 66, p. 464-473., WOS

[1.2] LOPRENCIPE, Giuseppe - CANTISANI, Giuseppe. Unified analysis of road pavement profiles for evaluation of surface characteristics. In *Modern Applied Science*. ISSN 19131844, 2013-08-21, 7, 8, pp. 1-14., SCOPUS

- ADCA68 KROPÁČ, Oldřich - MÚČKA, Peter. Non-standard longitudinal profiles of roads and indicators for their characterisation. In *International Journal of Vehicle Design*. - Geneve : International association for vehicle design, 2004, vol. 36, nos. 2/3, p.149-172. ISSN 0143-3369.
- Ohlasy:
- [1.1] JOHANNESSON, Par - RYCHLIK, Igor. Modelling of road profiles using roughness indicators. In INTERNATIONAL JOURNAL OF VEHICLE DESIGN. ISSN 0143-3369, 2014, vol. 66, no. 4, p. 317-346., WOS
  - [1.1] JOHANNESSON, P. - RYCHLIK, I. Laplace processes for describing road profiles. In FATIGUE DESIGN 2013, INTERNATIONAL CONFERENCE PROCEEDINGS. ISSN 1877-7058, 2013, vol. 66, p. 464-473., WOS
  - [1.1] KOLLMER, H. - KUCUKAY, F. - POTTER, K. Measurement and fatigue damage evaluation of road profiles in customer operation. In INTERNATIONAL JOURNAL OF VEHICLE DESIGN. ISSN 0143-3369, 2011, vol. 56, no. 1-4, p. 106-124., WOS
  - [1.1] MA, R. - CHEMISTRUCK, H. - FERRIS, J.B. State-of-the-art of terrain profile characterisation models. In INTERNATIONAL JOURNAL OF VEHICLE DESIGN. ISSN 0143-3369, 2013, vol. 61, no. 1-4, p. 285-304., WOS
- ADCA69 KROPÁČ, Oldřich - MÚČKA, Peter. Non-uniqueness of single-number indicators of longitudinal road profiles. In *Road Materials and Pavement Design*, 2009, vol. 10, no. 4, p.747-766. (0.162 - IF2008). (2009 - Current Contents). ISSN 1468-0629.
- Ohlasy:
- [1.1] PRATICO, F.G. - VAIANA, R. A study on volumetric versus surface properties of wearing courses. In CONSTRUCTION AND BUILDING MATERIALS. ISSN 0950-0618, JAN 2013, vol. 38, p. 766-775., WOS
- ADCA70 KROPÁČ, Oldřich - MÚČKA, Peter. Specification of Obstacles in the Longitudinal Road Profile by Median Filtering. In *Journal of Transportation Engineering ASCE*, 2011, vol.137, no. 3, p.214-226. (0.460 - IF2010). (2011 - Current Contents). ISSN 0733-947X.
- Ohlasy:
- [3] FRANTA, Daniel Paul. Computational Analysis of Rigid Pavement Profiles. Faculty of the Graduate School, University of Minnesota, Minnesota, USA, 2012, 111 p.
- ADCA71 KÚDELA, Stanislav. Magnesium-lithium matrix composites - an overview. In *International Journal of Materials and Product Technology*, 2003, vol. 18, nos. 1, p. 91-115. ISSN 0268-1900.
- Ohlasy:
- [1.1] KIM, Y.M. - JUNG, I.H. - LEE, B.J. Atomistic modeling of pure Li and Mg-Li system. In MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING. ISSN 0965-0393, APR 2012, vol. 20, no. 3., WOS
  - [1.1] ZHANG, Q.Q. - WU, G.Q. - HUANG, Z. - TAO, Y. Effects of particle/matrix interfaces on the mechanical properties for SiCp or YAl2p reinforced Mg-Li composites. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, MAR 5 2014, vol. 588, p. 1-6., WOS
  - [1.1] ZHANG, X. - WU, G.Q. - LING, Z.H. - HUANG, Z. A novel method

to control agglomeration of ultrafine YAl<sub>2</sub> particles in YAl<sub>2</sub>p/MgLiAl composite. In MATERIALS LETTERS. ISSN 0167-577X, JAN 15 2011, vol. 65, no. 1, p. 104-106., WOS

[1.2] DONG, Qi Duo - LIU, Zhi Jian - LIANG, Xi - TAO, Yu Qiang. Effect of hot extrusion on microstructure and mechanical properties of Mg-Li based composite materials reinforced by boron compound. In Fenmo Yejin Cailiao Kexue yu Gongcheng/Materials Science and Engineering of Powder Metallurgy. ISSN 16730224, 2014-02-01, 19, 1, pp. 60-65., SCOPUS

[1.2] HUANG, Mingfu - WU, Jicai - LIU, Yong - ZENG, Xiaoshu. Effects of carbon nanotube on die casting ZM5 magnesium matrix composites. In Tezhong Zhuzao Ji Youse Hejin/Special Casting and Nonferrous Alloys. ISSN 10012249, 2014-01-01, 34, 3, pp. 299-302., SCOPUS

[1.2] WU, Guoqing - ZHANG, Qingqing - HUANG, Zheng. Progress in research of ultrafine intermetallic compound particles reinforced Mg-Li matrix composites. In Materials China. ISSN 16743962, 2013-12-01, 32, 3, pp. 172-178., SCOPUS

[1.2] WU, L.B. - MENG, X.R. - WU, R.Z. - CUI, C.L. - ZHANG, M.L. - ZHANG, J.H. Solid-state composite technology for B 4C p reinforced magnesium-lithium alloy. In Transactions of Nonferrous Metals Society of China (English Edition). ISSN 1003-6326, 2011, vol. 21, no. 4, p. 820-824., SCOPUS

[1.2] ZHANG, X. - WU, G. - LING, Z. - HUANG, Z. Effect of mix milling on the microstructure and surface modification of YAl<sub>2</sub> particles. In Beijing Hangkong Hangtian Daxue Xuebao/Journal of Beijing University of Aeronautics and Astronautics. ISSN 1001-5965, 2011, vol. 37, no. 11, p. 1425-1428., SCOPUS

ADCA72 KÚDELA, Stanislav - OSWALD, Steffen - KÚDELA, Stanislav, Jr. - BAUNACK, S - WETZIG, Klaus. The ion exchange promoted interfacial strength in magnesium based composites. In *Journal of Alloys and Compounds*, 2004, vol. 378, p.127-131. ISSN 0925-8388.

Ohlasy:

[1.2] CHEN, S.H. - HE, X.M. - JIN, P.P. - SCHUMACHER, G. Interface structure and its formation mechanism in Mg<sub>2</sub>B<sub>2</sub>O<sub>5</sub>w/AZ91D magnesium matrix composite. In Cailiao Rechuli Xuebao/Transactions of Materials and Heat Treatment. ISSN 1009-6264, 2011, vol. 32, no. 2, p. 16-20., SCOPUS

ADCA73 KÚDELA, Stanislav, Jr. - RUDAJEVOVÁ, A. - KÚDELA, Stanislav. Anisotropy of thermal expansion in Mg- and Mg<sub>4</sub>Li-matrix composites reinforced by short alumina fibres. In *Materials Science and Engineering. A. Structural Materials*, 2007, vol. A 462, no.1-2, p. 239-242. (1.490 - IF2006). (2007 - Current Contents, WOS, SCOPUS). ISSN 0921-5093.

Ohlasy:

[1.1] ROY, S. - ALBRECHT, P. - PRZYBILLA, L. - WEIDENMANN, K.A. - HEILMAIER, M. - WANNER, A. EFFECT OF PHASE ARCHITECTURE ON THE THERMAL EXPANSION BEHAVIOR OF INTERPENETRATING METAL/CERAMIC COMPOSITES. In PROCESSING AND PROPERTIES OF ADVANCED CERAMICS AND COMPOSITES V. ISSN 1042-1122, 2013, vol. 240, p. 33-43., WOS

[1.1] STEFANIK, P. - IZDINSKY, K. - SIMANCIK, F. - BERONSKA, N. Thermal Cycling of Copper Based Composite Reinforced with High Modulus

Carbon Fibres. In METALLOGRAPHY XV. ISSN 0255-5476, 2014, vol. 782, p. 519-522., WOS

[1.1] ZAMRI, M.H. - AKIL, H.M. - SAFIEE, S. - ISHAK, Z.A.M. - BAKAR, A.A. PREDICTING THE COEFFICIENT OF THERMAL EXPANSION OF PULTRUDED COMPOSITES WITH A NATURAL-FIBER REINFORCEMENT. In MECHANICS OF COMPOSITE MATERIALS. ISSN 0191-5665, NOV 2014, vol. 50, no. 5, p. 603-612., WOS

ADCA74 KÚDELA, Stanislav, Jr. - OSWALD, S. - KÚDELA, Stanislav - WETZIG, K. Application of FTIR spectra for evaluating interfacial reactions in metal matrix composites. In *Analytical and Bioanalytical Chemistry*, 2008, vol. 390, no.6, p.1477-1486. ISSN 1618-2642.

Ohlasy:

[1.1] MIRJALILI, F. - CHUAH, L. - DANAFAR, F. - SOLTANI, M. - CHEN, P. The effect of dispersant on toughening mechanism and structure behaviors of Polypropylene Nanocomposites reinforced with nano alpha-alumina particles. In JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS. ISSN 0892-7057, NOV 2013, vol. 26, no. 10, p. 1377-1392., WOS

[1.1] POLONSKYI, O. - KYLIAN, O. - DRABIK, M. - KOUSAL, J. - SOLAR, P. - ARTEMENKO, A. - CECVALA, J. - CHOUKOUROV, A. - SLAVINSKA, D. - BIEDERMAN, H. Deposition of Al nanoparticles and their nanocomposites using a gas aggregation cluster source. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, MAY 2014, vol. 49, no. 9, p. 3352-3360., WOS

[1.1] REN, M. - YIN, H.B. - HANG, Y. - GE, C.Q. - ZHANG, Y.S. - WANG, A.L. - YU, L.B. - JIANG, T.S. - WU, Z.A. Deposition of colored inorganic coating layers on lamellar sericite surface and the pigmentary performances. In POWDER TECHNOLOGY. ISSN 0032-5910, NOV 25 2011, vol. 214, no. 1, p. 31-37., WOS

[1.1] THAKUR, A.D. - CHAUDHURI, M.G. - DAS, G.C. - DEY, R. - MITRA, M.K. - MUKHERJEE, S. In Situ Synthesis of Nanostructured WC-Co Within Silica Gel Matrix. In INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY. ISSN 1546-542X, MAY 2014, vol. 11, no. 3, SI, p. 582-589., WOS

ADCA75 KÚDELA, Stanislav, Jr. - WENDROCK, Horst - KÚDELA, Stanislav - PAWELEK, Andrzej - PIATKOWSKI, Andrzej - WETZIG, Klaus. Fracture behavior of Mg-Li matrix composites. In *International Journal of Materials Research*, 2009, vol. 100, no. 6, p. 910-914. (0.819 - IF2008). (2009 - Current Contents). ISSN 1862-5282.

Ohlasy:

[1.1] ZHANG, Q.Q. - WU, G.Q. - SHA, W. - HUANG, Z. - TAO, Y. Preparation and surface modification of submicron YAl<sub>2</sub> particles by mixed milling with magnesium for fabricating YAl<sub>2</sub>p/MgLiAl composites. In POWDER TECHNOLOGY. ISSN 0032-5910, AUG 2014, vol. 262, p. 209-214., WOS

[1.1] ZHANG, Q.Q. - WU, G.Q. - HUANG, Z. - TAO, Y. Effects of particle/matrix interfaces on the mechanical properties for SiCp or YAl<sub>2</sub>p reinforced Mg-Li composites. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, MAR 5 2014, vol. 588, p. 1-6., WOS

[1.1] ZHANG, Q.Q. - WU, G.Q. - HUANG, Z. - TAO, Y. Characterization of the correlation between the interfaces and failure behaviors for particle reinforced Mg-Li composites. In MATERIALS CHARACTERIZATION. ISSN 1044-5803, MAR 2014, vol. 89, p. 1-6., WOS

ADCA76 KUDLIČKA, Ján. Dispersion of torsional waves in a thick-walled transversely isotropic circular cylinder of infinite length. In *Journal of Sound and Vibration*, 2006, vol. 294, no.1-2, p. 368-373. ISSN 0022-460 X.

Ohlasy:

[1.1] HUANG, Y. - ZHANG, C. L. Magnetolectric effect in a circumferentially polarized composite cylinder. In SMART MATERIALS AND STRUCTURES. ISSN 0964-1726, 2013, vol. 22, no. 10, pp., WOS

ADCA77 LAPIN, Juraj - VAŇO, Andrej. Coarsening kinetics of  $\alpha$ - and  $\gamma'$ -precipitates in a multiphase intermetallic Ni-Al-Cr-Ti type alloy with additions of Mo and Zr. In *Scripta Materialia*. - Oxford : Elsevier Science, 2004, vol. 50, p.571-575. ISSN 1359-6462.

Ohlasy:

[1.1] CHENG, X.L. - LI, Y.S. - ZHANG, L. - ZHU, H. Phase field simulation of morphology evolution and coarsening of gamma ' intermetallic phase in Ni-Al alloy. In MATERIALS SCIENCE AND TECHNOLOGY. ISSN 0267-0836, MAR 2013, vol. 29, no. 3, p. 364-369., WOS

[1.1] CHENG, X.L. - LI, Y.S. - ZHANG, L. - ZHU, H. Precipitate Behavior and Microstructure Evolution of  $\gamma'$  phase in Ni-Al Alloys with the Internal Elastic Strain. In MATERIALS PERFORMANCE, MODELING AND SIMULATION. ISSN 0255-5476, 2013, vol. 749, p. 491-497., WOS

[1.1] OKSIUTA, Z. - KOZIKOWSKI, P. - LEWANDOWSKA, M. - OHNUMA, M. - SURESH, K. - KURZYDŁOWSKI, K.J. Microstructural changes upon annealing in ODS-strengthened ultrafine grained ferritic steel. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, JUL 2013, vol. 48, no. 13, SI, p. 4620-4625., WOS

ADCA78 LAPIN, Juraj. Creep behaviour of a cast TiAl-based alloy for industrial applications. In *Intermetallics*. - Oxford : Elsevier Science, 2006, vol. 14, no.2, p.115-122. ISSN 0966-9795.

Ohlasy:

[1.1] CHARITIDIS, C.A. - KOUMOULOS, E.P. - NIKOLAKIS, V. - DRAGATOGIANNIS, D.A. Structural and nanomechanical properties of a zeolite membrane measured using nanoindentation. In *Thin Solid Films*, 2012, 526, pp. 168-175., WOS

[1.1] CHEN, M. R. - JIANG, Y. - HE, Y. H. - LIN, L. W. - HUANG, B. Y. - LIU, C. T. Pore evolution regulation in synthesis of open pore structured Ti-Al intermetallic compounds by solid diffusion. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, 2012, vol. 521, no., pp. 12., WOS

[1.1] KIM, Seong-Woong - HONG, Jae Keun - NA, Young-Sang - YEOM, Jong-Taek - KIM, Seung Eon. Development of TiAl alloys with excellent mechanical properties and oxidation resistance. In MATERIALS & DESIGN. ISSN 0261-3069, FEB 2014, vol. 54, p. 814-819., WOS

[1.1] PENG, Y.B. - CHEN, F. - WANG, M.Z. - SU, X. - CHEN, G. RELATIONSHIP BETWEEN MECHANICAL PROPERTIES AND

LAMELLAR ORIENTATION OF PST CRYSTALS IN Ti-45Al-8Nb ALLOY. In ACTA METALLURGICA SINICA. ISSN 0412-1961, NOV 11 2013, vol. 49, no. 11, SI, p. 1457-1461., WOS

[1.1] SONG, L.W. - LI, Y. - MA, Y. - GONG, S.K. High temperature creep behavior and mechanism of a TiAl-based intermetallic. In RARE METALS. ISSN 1001-0521, MAR 2011, vol. 30, SI, p. 323-325., WOS

[1.1] XIAO, L. - TIAN, S.G. - BAO, X.Y. - CHEN, L.Q. Influence of heat treatment on microstructure and creep properties of hot continuous rolled Ti-6Al-4V alloy. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, JAN 1 2013, vol. 559, p. 401-406., WOS

[1.2] CHARITIDIS, Costas A. - DRAGATOGIANNIS, Dimitrios A. - KOUMOULOS, Elias P. A study on time dependent properties of aluminum alloy by nanoindentation technique. In International Journal of Structural Integrity. ISSN 17579864, 2013-11-28, 4, 1, pp. 33-54., SCOPUS

[1.2] SHEN, Zaoyu - HUANG, Guanghong - HE, Limin - MU, Rende - CHANG, Zhendong. Preparation and thermal stability of large-sized TiAl/Ti3Al micro-laminated thin sheets. In Cailiao Yanjiu Xuebao/Chinese Journal of Materials Research. ISSN 10053093, 2014-01-01, 28, 4, pp. 314-320., SCOPUS

[3] ČEGAN, T.: Vliv krystalizačních procesů na strukturu a vlastnosti intermetalických sloučenin na bázi Ti-Al. [Dizertačná práce]. Ostrava : VŠB-Technická univerzita Ostrava, 2013, 165 s.

ADCA79 LAPIN, Juraj. Creep behavior of a cast intermetallic Ti-45.2Al-2W-0.6Si-0.7B alloy. In *Scripta Materialia*. - Oxford : Elsevier Science, 2004, vol. 50, no. 2, p. 261-265. ISSN 1359-6462.

Ohlasy:

[1.1] YE, Xicong - ZHAO, Weiguang. The Study on TiAl Based Alloy Blade Casting Structure by Bottom Pouring Vacuum Suction Casting. In MATERIALS ENGINEERING AND MECHANICAL AUTOMATION. ISSN 1660-9336, 2014, vol. 442, p. 44-47., WOS

[1.1] YE, X.C. - SU, Y.Q. - GUO, J.J. - ZHANG, Y.H. - FU, H.Z. Numerical Simulation on Suction Casting Defects of TiAl Based Alloy Blade. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, FEB 2011, vol. 40, no. 2, p. 247-250., WOS

[1.2] YE, X.-C. - SU, Y.-Q. - GUO, J.-J. - ZHANG, L.-H. Structure of TiAl based alloy by suction casting. In Hangkong Cailiao Xuebao/Journal of Aeronautical Materials, 2012, 32, 4, pp. 15-19., SCOPUS

ADCA80 LAPIN, Juraj - PELACHOVÁ, Tatiana - DOMÁNKOVÁ, Mária. Creep behaviour of a new air-hardenable intermetallic Ti-46Al-8Ta alloy. In *Intermetallics*, 2011, vol.19, pp.814-819. (2.335 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 0966-9795.

Ohlasy:

[1.1] BONDAR, A.A. - WITUSIEWICZ, V.T. - HECHT, U. - REMEZ, M.V. - VOBLIKOV, V.M. - TSYGANENKO, N.I. - YEVICH, Y.I. - PODREZOV, Y.M. - VELIKANOVA, T.Y. STRUCTURE AND PROPERTIES OF TITANIUM-ALUMINUM ALLOYS DOPED WITH NIOBIUM AND TANTALUM. In POWDER METALLURGY AND METAL CERAMICS. ISSN 1068-1302, OCT 2011, vol. 50, no. 7-8, p. 397-415., WOS

- [1.1] IMAYEV, V. - OLENEVA, T. - IMAYEV, R. - CHRIST, H.J. - FECHT, H.J. Microstructure and mechanical properties of low and heavy alloyed gamma-TiAl + alpha(2)-Ti3Al based alloys subjected to different treatments. In INTERMETALLICS. ISSN 0966-9795, 2012, vol. 26, no., pp. 91., WOS
- [1.1] RAO, K.P. - PRASAD, Y.V.R.K. - SURESH, K. Hot working behavior and processing map of a gamma-TiAl alloy synthesized by powder metallurgy. In MATERIALS & DESIGN. ISSN 0261-3069, DEC 2011, vol. 32, no. 10, p. 4874-4881., WOS
- [1.1] TERNER, M. - BIAMINO, S. - UGUES, D. - SABBADINI, S. - FINO, P. - PAVESE, M. - BADINI, C. Phase transitions assessment on gamma-TiAl by Thermo Mechanical Analysis. In INTERMETALLICS. ISSN 0966-9795, JUN 2013, vol. 37, p. 7-10., WOS
- [1.1] ZHANG, Y. - LI, X.Z. - LIU, G.H. - SU, Y.Q. - GUO, J.J. - FU, H.Z. DEPENDENCE OF PRIMARY PHASE AND ITS GROWTH DIRECTION ON SOLIDIFICATION PROCESS IN DIRECTIONALLY SOLIDIFIED Ti-46Al-2Cr-2Nb ALLOY. In ACTA METALLURGICA SINICA. ISSN 0412-1961, SEP 11 2013, vol. 49, no. 9, p. 1061-1068., WOS
- [1.2] HASEGAWA, Makoto - NOMURA, Takuya - HAGA, Hideki - DLOUHY, Ivo - DLOUHY, Ivo - FUKUTOMI, Hiroshi. Microstructural control of Ti-46Al-7Nb-0.7Cr-0.2Ni-0.1Si alloy by heat treatment. In International Journal of Materials Research. ISSN 18625282, 2014-01-01, 105, 11, pp. 1075-1083., SCOPUS
- [4] STANEKOVÁ, H. Microstructural stability of Ti-46Al-8Ta during creep. In Materials Engineering/ Materiálové inžinierstvo. ISSN 1335-0803, 2011, vol. 18, no. 1, s. 11-15.

ADCA81 LAPIN, Juraj - ONDRŮŠ, Ľuboš - NAZMY, M. Directional solidification of intermetallic Ti-46Al-2W-0.5Si alloy in alumina moulds. In *Intermetallics*. - Oxford : Elsevier Science, 2002, vol. 10, p.1019-1031. ISSN 0966-9795.

Ohlasy:

- [1.1] AKER, A. - KAYA, H. Measurements of Microstructural, Mechanical, Electrical, and Thermal Properties of an Al-Ni Alloy. In INTERNATIONAL JOURNAL OF THERMOPHYSICS. ISSN 0195-928X, FEB 2013, vol. 34, no. 2, p. 267-283., WOS
- [1.1] CUI, R. J. - TANG, X. X. - GAO, M. - ZHANG, H. - GONG, S. K. Microstructure and composition of cast Ti-47Al-2Cr-2Nb alloys produced by yttria crucibles. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, APR 15 2012, vol. 541, p. 14-21., WOS
- [1.1] DING HONGSHENG - NIE GE - CHEN RUIRUN - GUO JINGJIE - FU HENGZHI. High temperature deformation behaviors of polysynthetically twinned (PST) Ti-47Al-2Cr-2Nb alloy. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, DEC 15 2012, vol. 558, p. 747-754., WOS
- [1.1] DING HONGSHENG - NIE GE - CHEN RUIRUN - GUO JINGJIE - FU HENGZHI. Directional solidification of TiAl-W-Si alloy by electromagnetic confinement of melt in cold crucible. In INTERMETALLICS. ISSN 0966-9795, DEC 2012, vol. 31, p. 264-273., WOS
- [1.1] DING HONGSHENG - NIE GE - CHEN RUIRUN - GUO JINGJIE -

FU HENGZHI. Influence of oxygen on microstructure and mechanical properties of directionally solidified Ti-47Al-2Cr-2Nb alloy. In MATERIALS & DESIGN. ISSN 0261-3069, OCT 2012, vol. 41, p. 108-113., WOS

[1.1] DING, H.S. - NIE, G. - WANG, Y.Z. - CHEN, R.R. - GUO, J.J. - FU, H.Z. Electromagnetic Cold Crucible Technology Applied for Producing Big-sized gamma-TiAl Based Ingots with Directional Growth Structure. In COST-AFFORDABLE TITANIUM IV. ISSN 1013-9826, 2013, vol. 551, p. 103-108., WOS

[1.1] DING, Rengen - JONES, Ian P. - CHIU, Yulung - CHEN, Ruirun. Microstructure and mechanical property of directionally solidified Ti-46Al-0.5W-0.5Si alloys with and without Gd. In INTERMETALLICS. ISSN 0966-9795, JAN 2012, vol. 20, no. 1, p. 123-134., WOS

[1.1] DING, X. F. - LIN, J. P. - ZHANG, L. Q. - SU, Y. Q. - CHEN, G. L. Microstructural control of TiAl-Nb alloys by directional solidification. In ACTA MATERIALIA. ISSN 1359-6454, JAN 2012, vol. 60, no. 2, p. 498-506., WOS

[1.1] DING, X.F. - LIN, J.P. - ZHANG, L.Q. - SU, Y.Q. - WANG, H.L. - CHEN, G.L. Lamellar orientation control in a Ti-46Al-5Nb alloy by directional solidification. In SCRIPTA MATERIALIA. ISSN 1359-6462, JUN 2011, vol. 65, no. 1, p. 61-64., WOS

[1.1] DING, X.F. - LIN, J.P. - QI, H. - ZHANG, L.Q. - SONG, X.P. - CHEN, G.L. Microstructure evolution of directionally solidified Ti-45Al-8.5Nb-(W, B, Y) alloys. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, MAR 3 2011, vol. 509, no. 9, p. 4041-4046., WOS

[1.1] DING, X.F. - LIN, J.P. - ZHANG, L.Q. - SONG, X.P. - CHEN, G.L. Microstructures and mechanical properties of directionally solidified Ti-45Al-8Nb-(W, B, Y) alloys. In MATERIALS & DESIGN. ISSN 0261-3069, JAN 2011, vol. 32, no. 1, p. 395-400., WOS

[1.1] DU, Yujun - SHEN, Jun - XIONG, Yilong - LIU, Zhenwei - ZHAO, Qian - FU, Hengzhi. Determining the Effects of Growth Velocity on Microstructure and Mechanical Properties of Ti-47Al Alloy using Electromagnetic Confinement and Directional Solidification. In JOM. ISSN 1047-4838, SEP 2014, vol. 66, no. 9, p. 1914-1922., WOS

[1.1] ENGIN, S. - BOYUK, U. - KAYA, H. - MARASLI, N. Directional solidification and physical properties measurements of the zinc-aluminum eutectic alloy. In INTERNATIONAL JOURNAL OF MINERALS METALLURGY AND MATERIALS. ISSN 1674-4799, DEC 2011, vol. 18, no. 6, p. 659-664., WOS

[1.1] FAN JIANG-LEI - LI XIN-ZHONG - SU YAN-QING - CHEN RUI-RUN - GUO JING-JIE - FU HENG-ZHI. Effect of thermal stabilization on microstructure and mechanical property of directionally solidified Ti-46Al-0.5W-0.5Si alloy. In TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA. ISSN 1003-6326, MAY 2012, vol. 22, no. 5, p. 1073-1080., WOS

[1.1] FAN, Jianglei - LI, Xinzhong - SU, Yanqing - GUO, Jingjie - FU, Hengzhi. Effect of growth rate on microstructure parameters and microhardness in directionally solidified Ti-49Al alloy. In MATERIALS & DESIGN. ISSN 0261-3069, FEB 2012, vol. 34, p. 552-558., WOS

[1.1] FAN, J. - GUO, J. - LONG, W. - SU, Y. - LI, X. - LI, F. - FU, H. Lamellar orientation control of directionally solidified Ti-46Al-0.5W-0.5Si alloy by self-seeding technology. In MATERIALS SCIENCE AND TECHNOLOGY.



ISSN 0267-0836, FEB 2014, vol. 30, no. 2, p. 183-188., WOS

[1.1] FAN, J.L. - LI, X.Z. - SU, Y.Q. - CHEN, R.R. - GUO, J.J. - FU, H.Z. Dependency of microstructure parameters and microhardness on the temperature gradient for directionally solidified Ti-49Al alloy. In MATERIALS CHEMISTRY AND PHYSICS. ISSN 0254-0584, NOV 1 2011, vol. 130, no. 3, p. 1232-1238., WOS

[1.1] FAN, J.L. - LI, X.Z. - SU, Y.Q. - CHEN, R.R. - GUO, J.J. - FU, H.Z. Directional solidification of Ti-49 at.%Al alloy. In APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING. ISSN 0947-8396, OCT 2011, vol. 105, no. 1, p. 239-248., WOS

[1.1] FAN, J.L. - LI, X.Z. - SU, Y.Q. - CHEN, R.R. - GUO, J.J. - FU, H.Z. Microstructure evolution of directionally solidified Ti-46Al-0.5W-0.5Si alloy. In JOURNAL OF CRYSTAL GROWTH. ISSN 0022-0248, DEC 15 2011, vol. 337, no. 1, p. 52-59., WOS

[1.1] HU, D. - YANG, C. - HUANG, A. - DIXON, M. - HECHT, U. Solidification and grain refinement in Ti45Al2Mn2Nb1B. In INTERMETALLICS. ISSN 0966-9795, MAR 2012, vol. 22, p. 68-76., WOS

[1.1] HU, Xiaowu - AI, Fanrong - JIANG, Fugang. Rod-like structure and microhardness during directional solidification of Sn-1wt.% Cu eutectic alloy. In INTERNATIONAL JOURNAL OF MATERIALS RESEARCH. ISSN 1862-5282, NOV 2012, vol. 103, no. 11, p. 1332-1336., WOS

[1.1] CHEN, Ruirun - DING, Hongsheng - GUO, Jingjie - SU, Yanqing - FU, Hengzhi. Microstructure and mechanical properties of a rapid directionally solidified Ti47Al alloy. In MATERIALS AND COMPUTATIONAL MECHANICS, PTS 1-3. ISSN 1660-9336, 2012, vol. 117-119, 1-3, p. 217-221., WOS

[1.1] CHEN, Y.Y. - JIA, Y. - XIAO, S.L. - TIAN, J. - XU, L.J. REVIEW OF THE INVESTMENT CASTING OF TiAl-BASED INTERMETALLIC ALLOYS. In ACTA METALLURGICA SINICA. ISSN 0412-1961, NOV 11 2013, vol. 49, no. 11, SI, p. 1281-1285., WOS

[1.1] KARTAVYKH, A.V. - CHINAROV, V.V. Bench for High-Temperature Material Testing and Its Application in Metallurgy of Refractory Intermetallides. In INORGANIC MATERIALS. ISSN 0020-1685, DEC 2011, vol. 47, no. 15, p. 1649-1654., WOS

[1.1] KAYA, H. - BOYUK, U. - CADIRLI, E. - MARASLI, N. Measurements of the microhardness, electrical and thermal properties of the Al-Ni eutectic alloy. In MATERIALS & DESIGN. ISSN 0261-3069, FEB 2012, vol. 34, p. 707-712., WOS

[1.1] LIU, D.M. - LI, X.Z. - SU, Y.Q. - GUO, J.J. - FU, H.Z. Microstructure evolution in directionally solidified Ti-(50,52) at%Al alloys. In INTERMETALLICS. ISSN 0966-9795, FEB 2011, vol. 19, no. 2, p. 175-181., WOS

[1.1] LIU, Guohuai - LI, Xinzhong - SU, Yanqing - LIU, Dongmei - GUO JINGJIE - FU HENGZHI. Microstructure, microsegregation pattern and the formation of B2 phase in directionally solidified Ti-46Al-8Nb alloy. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, NOV 15 2012, vol. 541, p. 275-282., WOS

[1.1] LIU, Guo-huai - LI, Xin-zhong - ZHANG, Yuan - CHEN, Rui-run - SU, Yan-qing - GUO, Jing-jie - FU, Heng-zhi - WANG, Zhao-dong - WANG, Guo-dong. Effect of growth rate and diameter on microstructure and hardness of

directionally solidified Ti-46Al-8Nb alloy. In TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA. ISSN 1003-6326, DEC 2014, vol. 24, no. 12, p. 4044-4052., WOS

[1.1] LI, Xinzong - FAN, Jianglei - SU, Yanqing - LIU, Dongmei - GUO, Jingjie - FU, Hengzhi. Lamellar orientation and growth direction of alpha phase in directionally solidified Ti-46Al-0.5W-0.5Si alloy. In INTERMETALLICS. ISSN 0966-9795, AUG 2012, vol. 27, SI, p. 38-45., WOS

[1.1] MA, Limin - TANG, Xiaoxia - WANG, Bin - JIA, Lina - YUAN, Sainan - ZHANG, Hu. Purification in the interaction between yttria mould and Nb-silicide-based alloy during directional solidification: A novel effect of yttrium. In SCRIPTA MATERIALIA. ISSN 1359-6462, AUG 2012, vol. 67, no. 3, p. 233-236., WOS

[1.1] MA, Shengqiang - XING, Jiandong - FU, Hanguang - HE, Yaling - BAI, Yu - LI, Yefei - BAI, Yaping. Interface characteristics and corrosion behaviour of oriented bulk Fe2B alloy in liquid zinc. In CORROSION SCIENCE. ISSN 0010-938X, JAN 2014, vol. 78, p. 71-80., WOS

[1.1] MOREIRA AFONSO, Conrado Ramos - SPINELLI, Jose Eduardo - BOLFARINI, Claudemiro - BOTTA, Walter Jose - KIMINAMI, Claudio Shyinti - GARCIA, Amauri. Rapid Solidification of an Al-5Ni Alloy Processed by Spray Forming. In MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS. ISSN 1516-1439, SEP-OCT 2012, vol. 15, no. 5, p. 779-785., WOS

[1.1] NIE, Ge - DING, Hongsheng - CHEN, Ruirun - GUO, Jingjie - FU, Hengzhi. Microstructural control and mechanical properties of Ti-47Al-2Cr-2Nb alloy by directional solidification electromagnetic cold crucible technique. In MATERIALS & DESIGN. ISSN 0261-3069, AUG 2012, vol. 39, p. 350-357., WOS

[1.1] SAHIN, M. - CADIRLI, E. Mechanical, electrical, and thermal properties of the directionally solidified Bi-Zn-Al ternary eutectic alloy. In INTERNATIONAL JOURNAL OF MINERALS METALLURGY AND MATERIALS. ISSN 1674-4799, OCT 2014, vol. 21, no. 10, p. 999-1008., WOS

[1.1] SILVA, B.L. - ARAUJO, I.J.C. - SILVA, W.S. - GOULART, P.R. - GARCIA, A. - SPINELLI, J.E. Correlation between dendrite arm spacing and microhardness during unsteady-state directional solidification of Al-Ni alloys. In PHILOSOPHICAL MAGAZINE LETTERS. ISSN 0950-0839, 2011, vol. 91, no. 5, p. 337-343., WOS

[1.1] SU YANQING - LIU TONG - LI XINZHONG - CHEN, Ruirun - DING, Hongsheng - GUO, Jingjie - FU, Hengzhi. Lamellar orientation control in directionally solidified TiAl intermetallics. In CHINA FOUNDRY. ISSN 1672-6421, JUL 2014, vol. 11, no. 4, p. 219-231., WOS

[1.1] WANG, Yongzhe - DING, Hongsheng - ZHANG, Hailong - CHEN, Ruirun - GUO, Jingjie - FU, Hengzhi. Microstructures and fracture toughness of Ti-(43-48)Al-2Cr-2Nb prepared by electromagnetic cold crucible directional solidification. In MATERIALS & DESIGN. ISSN 0261-3069, DEC 2014, vol. 64, p. 153-159., WOS

[1.1] YANG, Guang - MILENKOVIC, Srdjan. Microstructure evolution and mechanical behavior of as-cast, heat treated and directionally solidified Fe-15Al-10Nb alloys. In INTERMETALLICS. ISSN 0966-9795, DEC 2014, vol. 55, p. 129-137., WOS

[1.1] YAN, Erhu - LI XINZHONG - LIU, Dongmei - SU YANQING - GUO,

- Jingjie - FU, Hengzhi. A skull-aided technique for directional solidification of Nb-41Ni-40Ti hydrogen permeable alloy. In JOURNAL OF CRYSTAL GROWTH. ISSN 0022-0248, APR 1 2014, vol. 391, p. 78-84., WOS
- [1.1] ZHANG, H. R. - TANG, X. X. - ZHOU, L. - GAO, M. - ZHOU, C. G. - ZHANG, H. Interactions between Ni-44Ti-5Al-2Nb-Mo alloy and oxide ceramics during directional solidification process. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, SEP 2012, vol. 47, no. 17, p. 6451-6458., WOS
- [1.1] ZHANG, H.R. - TANG, X.X. - ZHOU, C.G. - ZHANG, H. - ZHANG, S.W. Comparison of directional solidification of gamma-TiAl alloys in conventional Al<sub>2</sub>O<sub>3</sub> and novel Y<sub>2</sub>O<sub>3</sub>-coated Al<sub>2</sub>O<sub>3</sub> crucibles. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. ISSN 0955-2219, MAY 2013, vol. 33, no. 5, p. 925-934., WOS
- [1.1] ZHANG, Y. - LI, X.Z. - GUO, J.J. - SU, Y.Q. - FU, H.Z. Effect of growth rate on characteristic lengths of microstructure in directionally solidified Ti-46Al-2Cr-2Nb-0.2B alloy. In CHINA FOUNDRY. ISSN 1672-6421, SEP 2013, vol. 10, no. 5, p. 304-309., WOS
- [1.1] ZOLLINGER, J. - DALOZ, D. On the sampling methodology to characterize microsegregation. In MATERIALS CHARACTERIZATION. ISSN 1044-5803, NOV 2011, vol. 62, no. 11, p. 1058-1065., WOS
- [1.2] DING, Rengen - LI, Hangyue - HU, Dawei - MARTIN, Nigel - DIXON, Mark - BOWEN, Paul. Features of fracture surface in a fully lamellar TiAl-base alloy. In Intermetallics. ISSN 09669795, 2014-01-01, 58, pp. 36-42., SCOPUS
- [1.2] DING, X. - WANG, H. - HE, J. - LIN, J. - ZHANG, L. - CHEN, G. Microstructures of directionally solidified ti-45ai-6nb-0. 3b alloys. In Ti 2011 Proceedings of the 12th World Conference on Titanium, 2012, 2, pp. 1368-1373., SCOPUS
- [1.2] FAN, J. - LI, X. - SU, Y. - CHEN, R. - GUO, J. - FU, H. Microstructure evolution of directionally solidified Ti46Al0.5W0.5Si alloy. In Journal of Crystal Growth, 2011, 337, 1, pp. 52-59., SCOPUS
- [1.2] CHEN, Y. - CHEN, Y. - XIAO, S. - TIAN, J. - XU, L. Application of zirconia ceramic moulds for investment casting of TiAl alloys. In Ti 2011 Proceedings of the 12th World Conference on Titanium, 2012, 2, pp. 1471-1474., SCOPUS
- [1.2] KARTAVYKH, Andrey V. - KALOSHKIN, Sergey Dmitrievich - CHERDYNTSEV, V. V. - GORSHENKOV, Mikhail V. - SVIRIDOVA, Tatyana A. - BORISOVA, Yu V. - SENATOV, Fedor S. - MAKSIMKIN, Aleksey V. Application of microstructured intermetallides in turbine manufacture. Part 2: Problems in development of heat-resistant alloys based on TiAl (a review). In Inorganic Materials: Applied Research. ISSN 20751133, 2013-01-01, 4, 1, pp. 36-45., SCOPUS
- [1.2] PENG, Peng - PENG, Peng - LI, Xinzhong - SU, Yanqing - LI, Jiangong - LI, Jiangong - GUO, Jingjie - FU, Hengzhi. Dependence of microhardness on solidification processing parameters and dendritic spacing in directionally solidified Sn-Ni peritectic alloys. In Journal of Alloys and Compounds. ISSN 09258388, 2014-08-27, 618, pp. 49-55., SCOPUS
- [1.2] YANG, Guang - KOU, H. C. - WANG, Jun - LI, Jinshan - FU, Hengzhi. Interactions between TiAl melt and crucibles material during casting

process. In 8th Pacific Rim International Congress on Advanced Materials and Processing 2013, PRICM 8, 2013-01-01, 3, pp. 2669-2678., SCOPUS

- ADCA82     LAPIN, Juraj - KLIMOVA, Alena - VELÍSEK, Radomír - KURSA, Miroslav. Directional solidification of Ni-Al-Cr-Fe alloy. In *Scripta Materialia*, 1997, roč. 37, č. 1, s. 85-91.

Ohlasy:

[1.1]     AKER, A. - KAYA, H. Measurements of Microstructural, Mechanical, Electrical, and Thermal Properties of an Al-Ni Alloy. In INTERNATIONAL JOURNAL OF THERMOPHYSICS. ISSN 0195-928X, FEB 2013, vol. 34, no. 2, p. 267-283., WOS

[1.1]     FAN, J.L. - LI, X.Z. - SU, Y.Q. - CHEN, R.R. - GUO, J.J. - FU, H.Z. Microstructure evolution of directionally solidified Ti-46Al-0.5W-0.5Si alloy. In JOURNAL OF CRYSTAL GROWTH. ISSN 0022-0248, DEC 15 2011, vol. 337, no. 1, p. 52-59., WOS

[1.1]     LUO LIANGSHUN - ZHANG YUMIN - SU YANQING - WANG XIN - GUO JINGJIE - FU HENGZHI. CONVECTION EFFECTS AND BANDING STRUCTURE FORMATION MECHANISM DURING DIRECTIONAL SOLIDIFICATION OF PERITECTIC ALLOYS I. Experimental Result. In ACTA METALLURGICA SINICA. ISSN 0412-1961, MAR 11 2011 2011, vol. 47, no. 3, p. 275-283., WOS

[1.1]     LUO, L.S. - ZHANG, Y.M. - SU, Y.Q. - WANG, X. - GUO, J.J. - FU, H.Z. CONVECTION EFFECTS AND BANDING STRUCTURE FORMATION MECHANISM DURING DIRECTIONAL SOLIDIFICATION OF PERITECTIC ALLOYS I. Experimental Result. In ACTA METALLURGICA SINICA. ISSN 0412-1961, MAR 11 2011, vol. 47, no. 3, p. 275-283., WOS

- ADCA83     LAPIN, Juraj - PELACHOVÁ, Tatiana - WITUSIEWICZ, V.T. - DOBROČKA, Edmund. Effect of long-term ageing on microstructure stability and lattice parameters of coexisting phases in intermetallic Ti-46Al-8Ta alloy. In *Intermetallics*, 2011, vol. 19, p.121-124. (2.335 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 0966-9795.

Ohlasy:

[1.1]     HASEGAWA, Makoto - NOMURA, Takuya - HAGA, Hideki - DLOUHY, Ivo - FUKUTOMI, Hiroshi. Microstructural control of Ti-46Al-7Nb-0.7Cr-0.2Ni-0.1Si alloy by heat treatment. In INTERNATIONAL JOURNAL OF MATERIALS RESEARCH. ISSN 1862-5282, NOV 2014, vol. 105, no. 11, p. 1075-1083., WOS

[1.1]     HUANG, Z. W. - HU, W. Thermal stability of an intermediate strength fully lamellar Ti-45Al-2Mn-2Nb-0.8 vol.% TiB<sub>2</sub> alloy. In INTERMETALLICS. ISSN 0966-9795, NOV 2014, vol. 54, p. 49-55., WOS

[1.1]     LUO YUANYUAN - XI ZHENGPING - LU YAFENG - MAO XIAONAN - YANG YI - ZENG WEIDONG. Elevated Temperature Oxidation Behavior of the New gamma-TiAl Alloy. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, JAN 2014, vol. 43, no. 1, p. 219-223., WOS

[1.1]     POPELA, T. - VOJTECH, D. HIGH-TEMPERATURE BEHAVIOUR OF Ti-Al-Nb-Ta INTERMETALLICS. In METAL 2011: 20TH ANNIVERSARY INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS. 2011, p. 986-990., WOS

[1.1]     RAGHAVAN, V. Phase Diagram Updates and Evaluations of the

Al-Fe-Ta, Al-Ge-Ni, Al-Li-Zn, Al-Sc-Si and Al-Ta-Ti Systems. In JOURNAL OF PHASE EQUILIBRIA AND DIFFUSION. ISSN 1547-7037, AUG 2013, vol. 34, no. 4, p. 328-349., WOS

[1.1] VOJTECH, D. - POPELA, T. - HAMACEK, J. - KUTZENDORFER, J. The influence of tantalum on the high temperature characteristics of lamellar gamma + alpha 2 titanium aluminide. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, NOV 15 2011, vol. 528, no. 29-30, p. 8557-8564., WOS

[4] STANEKOVÁ, H. Microstructural stability of Ti-46Al-8Ta during creep. In Materials Engineering/ Materiálové inžinierstvo. ISSN 1335-0803, 2011, vol. 18, no. 1, s. 11-15.

ADCA84 LAPIN, Juraj. Effect of lamellar structure on microhardness and yield stress of directionally solidified intermetallic Ti-46Al-2W-0.5Si alloy. In *Journal of Materials Science Letters*, 2003, vol. 22, no. 10, p. 747-749. ISSN 0261-8028.

Ohlasy:

[1.1] CORNEC, Alfred - KABIR, Mohammad Rizviul - HUBER, Norbert. Use of spherical indentation technique for measurement of property variations of gamma TiAl. In JOURNAL OF MATERIALS RESEARCH. ISSN 0884-2914, JAN 2012, vol. 27, no. 1, p. 378-388., WOS

[1.1] MENG, Fanling - QIU, Jingwen - BAKER, Ian. Effect of Al content on the microstructure and mechanical behavior of two-phase FeNiMnAl alloys. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, MAR 2014, vol. 49, no. 5, p. 1973-1983., WOS

[1.2] CORNEC, A. - KABIR, M. R. - HUBER, N. Numerical prediction of the stress-strain response of a lamellar  $\gamma$ TiAl polycrystal using a two-scale modelling approach. In Materials Science and Engineering A. ISSN 09215093, 2014-12-05, 620, pp. 273-285., SCOPUS

[1.2] PENG, Peng - PENG, Peng - LI, Xinzhong - SU, Yanqing - LI, Jiangong - LI, Jiangong - GUO, Jingjie - FU, Hengzhi. Dependence of microhardness on solidification processing parameters and dendritic spacing in directionally solidified Sn-Ni peritectic alloys. In Journal of Alloys and Compounds. ISSN 09258388, 2014-08-27, 618, pp. 49-55., SCOPUS

ADCA85 LAPIN, Juraj - MAREČEK, Juraj. Effect of growth rate on microstructure and mechanical properties of directionally solidified multiphase intermetallic Ni-Al-Cr-Ta-Mo-Zr alloy. In *Intermetallics*. - Oxford : Elsevier Science, 2006, vol. 14, nos.10-11, p.1339-1344. ISSN 0966-9795.

Ohlasy:

[1.1] SAHIN, M. - CADIRLI, E. Mechanical, electrical, and thermal properties of the directionally solidified Bi-Zn-Al ternary eutectic alloy. In INTERNATIONAL JOURNAL OF MINERALS METALLURGY AND MATERIALS. ISSN 1674-4799, OCT 2014, vol. 21, no. 10, p. 999-1008., WOS

ADCA86 LAPIN, Juraj - ONDRUŠ, Ľuboš - BAJANA, Otto. Effect of Al<sub>2</sub>O<sub>3</sub> particles on mechanical properties of directionally solidified intermetallic Ti-46Al-2W-0.5Si alloy. In *Materials Science and Engineering. A. Structural Materials*, 2003, vol. 360, no. 1-2, p. 85-95. (2003 - Current Contents, SCOPUS). ISSN 0921-5093.

Ohlasy:

- [1.1] CUI REN-JIE - ZHANG HUA-RUI - TANG XIAO-XIA - MA LI-MIN - ZHANG HU - GONG SHENG-KAI. Interactions between gamma-TiAl melt and Y(2)O(3) ceramic material during directional solidification process. In TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA. ISSN 1003-6326, NOV 2011 2011, vol. 21, no. 11, p. 2415-2420., WOS
- [1.1] DING, H.S. - NIE, G. - CHEN, R.R. - GUO, J.J. - FU, H.Z. High temperature deformation behaviors of polysynthetically twinned (PST) Ti-47Al-2Cr-2Nb alloy. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, DEC 15 2012, vol. 558, p. 747-754., WOS
- [1.1] DING, H.S. - NIE, G. - CHEN, R.R. - GUO, J.J. - FU, H.Z. Directional solidification of TiAl-W-Si alloy by electromagnetic confinement of melt in cold crucible. In INTERMETALLICS. ISSN 0966-9795, DEC 2012, vol. 31, p. 264-273., WOS
- [1.1] DING, X... .F... - LIN, J... .P... - ZHANG, L... .Q... - SONG, X... .P... - CHEN, G... .L... Microstructures and mechanical properties of directionally solidified Ti-45Al-8Nb-(W, B, Y) alloys. In MATERIALS & DESIGN. ISSN 0261-3069, JAN 2011 2011, vol. 32, no. 1, p. 395-400., WOS
- [1.1] FAN, J.i.a.n.g.l.e.i. - LI, X.i.n.z.h.o.n.g. - SU, Y.a.n.q.i.n.g. - CHEN, R.u.i.r.u.n. - GUO, J.i.n.g.j.i.e. - FU, H.e.n.g.z.h.i. Dependency of microstructure parameters and microhardness on the temperature gradient for directionally solidified Ti-49Al alloy. In MATERIALS CHEMISTRY AND PHYSICS. ISSN 0254-0584, NOV 1 2011 2011, vol. 130, no. 3, p. 1232-1238., WOS
- [1.1] FAN, J.i.a.n.g.l.e.i. - LI, X.i.n.z.h.o.n.g. - SU, Y.a.n.q.i.n.g. - CHEN, R.u.i.r.u.n. - GUO, J.i.n.g.j.i.e. - FU, H.e.n.g.z.h.i. Microstructure evolution of directionally solidified Ti-46Al-0.5W-0.5Si alloy. In JOURNAL OF CRYSTAL GROWTH. ISSN 0022-0248, DEC 15 2011 2011, vol. 337, no. 1, p. 52-59., WOS
- [1.1] FAN, J.L. - LI, X.Z. - SU, Y.Q. - CHEN, R.R. - GUO, J.J. - FU, H.Z. Effect of thermal stabilization on microstructure and mechanical property of directionally solidified Ti-46Al-0.5W-0.5Si alloy. In TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA. ISSN 1003-6326, MAY 2012, vol. 22, no. 5, p. 1073-1080., WOS
- [1.1] FAN, J.L. - LI, X.Z. - SU, Y.Q. - GUO, J.J. - FU, H.Z. Effect of growth rate on microstructure parameters and microhardness in directionally solidified Ti-49Al alloy. In MATERIALS & DESIGN. ISSN 0261-3069, FEB 2012, vol. 34, p. 552-558., WOS
- [1.1] LIU, Guo-huai - LI, Xin-zhong - ZHANG, Yuan - CHEN, Rui-run - SU, Yan-qing - GUO, Jing-jie - FU, Heng-zhi - WANG, Zhao-dong - WANG, Guo-dong. Effect of growth rate and diameter on microstructure and hardness of directionally solidified Ti-46Al-8Nb alloy. In TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA. ISSN 1003-6326, DEC 2014, vol. 24, no. 12, p. 4044-4052., WOS
- [1.1] NIE, G. - DING, H.S. - CHEN, R.R. - GUO, J.J. - FU, H.Z. Microstructural control and mechanical properties of Ti-47Al-2Cr-2Nb alloy by directional solidification electromagnetic cold crucible technique. In MATERIALS & DESIGN. ISSN 0261-3069, AUG 2012, vol. 39, p. 350-357., WOS
- [1.1] WANG, L.G. - ZHENG, L.J. - CUI, R.J. - YANG, L.L. - ZHANG, H.

Microstructure and mechanical properties of cast Ti-47Al-2Cr-2Nb alloy melted in various crucibles. In CHINA FOUNDRY. ISSN 1672-6421, FEB 2012, vol. 9, no. 1, p. 48-52., WOS

[1.1] YAN, Erhu - LI, Xinzong - LIU, Dongmei - SU, Yanqing - GUO, Jingjie - FU, Hengzhi. A skull-aided technique for directional solidification of Nb-41Ni-40Ti hydrogen permeable alloy. In JOURNAL OF CRYSTAL GROWTH. ISSN 0022-0248, APR 1 2014, vol. 391, p. 78-84., WOS

[3] ČEGAN, T.: Vliv krystalizačních procesů na strukturu a vlastnosti intermetalických sloučenin na bázi Ti-Al. [Dizertačná práce]. Ostrava : VŠB-Technická univerzita Ostrava, 2013, 165 s.

ADCA87 LAPIN, Juraj - GABALCOVÁ, Zuzana - PELACHOVÁ, Tatiana. Effect of Y2O3 crucible on contamination of directionally solidified intermetallic Ti-46Al-8Nb alloy. In *Intermetallics*, 2011, vol. 19, p.396-403. (2.335 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 0966-9795.

Ohlasy:

[1.1] BALAKRISHNAN, S. - ANANTHASIVAN, K. - KUMAR, K. C. Hari. Studies on the synthesis and sintering of nanocrystalline yttria. In CERAMICS INTERNATIONAL. ISSN 0272-8842, JUN 2014, vol. 40, no. 5, p. 6777-6785., WOS

[1.1] ČEGAN, T. - KURSA, M. DIRECTIONAL SOLIDIFICATION AND SOLIDIFICATION BEHAVIOUR OF gamma-TiAl INTERMETALLICS WITH HIGHER CARBON CONTENTS. In METAL 2013: 22ND INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS. 2013, p. 1334-1340., WOS

[1.1] CUI, R. J. - TANG, X. X. - GAO, M. - ZHANG, H. - GONG, S. K. Microstructure and composition of cast Ti-47Al-2Cr-2Nb alloys produced by yttria crucibles. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, 2012, vol. 541, no., pp. 14., WOS

[1.1] CUI, Y.S. - TANG, X.X. - GAO, M. - MA, L.M. - ZHANG, H. Interactions between TiAl Alloy and Different Oxide Moulds under High-temperature and Long-time Condition. In HIGH TEMPERATURE MATERIALS AND PROCESSES. ISSN 0334-6455, JUN 2013, vol. 32, no. 3, p. 295-302., WOS

[1.1] DING HONGSHENG - NIE GE - CHEN RUIRUN - GUO JINGJIE - FU HENGZHI. High temperature deformation behaviors of polysynthetically twinned (PST) Ti-47Al-2Cr-2Nb alloy. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, 2012, vol. 558, no., pp. 747., WOS

[1.1] FU, Bin-guo - WANG, Hong-wei - ZOU, Chun-ming - MA, Pan - WEI, Zun-jie. Interfacial reactions between Ti-1100 alloy and CaO crucible during casting process. In TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA. ISSN 1003-6326, OCT 2014, vol. 24, no. 10, p. 3118-3125., WOS

[1.1] GAO, M. - CUI, R.J. - MA, L.M. - ZHANG, H.R. - TANG, X.X. - ZHANG, H. Physical erosion of yttria crucibles in Ti-54Al alloy casting process. In JOURNAL OF MATERIALS PROCESSING TECHNOLOGY. ISSN 0924-0136, DEC 2011, vol. 211, no. 12, p. 2004-2011., WOS

[1.1] HU, D. - YANG, C. - HUANG, A. - DIXON, M. - HECHT, U. Grain

refinement in beta-solidifying Ti44Al8Nb1B. In INTERMETALLICS. ISSN 0966-9795, 2012, vol. 23, no., pp. 49., WOS

[1.1] KARTAVYKH, A. V. - GORSHENKOV, M. V. - TCHERDYNTSEV, V. V. - PODGORNY, D. A. On the state of boride precipitates in grain refined TiAl-based alloys with high Nb content. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, FEB 15 2014, vol. 586, p. S153-S158., WOS

[1.1] KARTAVYKH, A.V. - TCHERDYNTSEV, V.V. - GORSHENKOV, M.V. - PODGORNY, D.A. - BORISOVA, Y.V. Tailored microstructure creation of TiAl-based refractory alloys within VGF solidification. In MATERIALS CHEMISTRY AND PHYSICS. ISSN 0254-0584, SEP 16 2013, vol. 141, no. 2-3, p. 643-650., WOS

[1.1] LIU, G. - LI, X. - SU, Y. - LIU, D. - GUO, J. - FU, H. Microstructure, microsegregation pattern and the formation of B2 phase in directionally solidified Ti-46Al-8Nb alloy. In Journal of Alloys and Compounds, 2012, 541, pp. 275-282., WOS

[1.1] MA, Limin - TANG, Xiaoxia - WANG, Bin - JIA, Lina - YUAN, Sainan - ZHANG, Hu. Purification in the interaction between yttria mould and Nb-silicide-based alloy during directional solidification: A novel effect of yttrium. In SCRIPTA MATERIALIA. ISSN 1359-6462, 2012, vol. 67, no. 3, pp. 233., WOS

[1.1] SHULESHOVA, O. - LOESER, W. - HOLLAND-MORITZ, D. - HERLACH, D. M. - ECKERT, J. Solidification and melting of high temperature materials: in situ observations by synchrotron radiation. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, 2012, vol. 47, no. 11, pp. 4497., WOS

[1.1] TETSUI, Toshimitsu - KOBAYASHI, Toshiharu - UENO, Tsuyoshi - HARADA, Hiroshi. Consideration of the influence of contamination from oxide crucibles on TiAl cast material, and the possibility of achieving low-purity TiAl precision cast turbine wheels. In INTERMETALLICS. ISSN 0966-9795, 2012, vol. 31, no., pp. 274., WOS

[1.1] YANG, J.R. - CHEN, R.R. - DING, H.S. - GUO, J.J. - HAN, J.C. - FU, H.Z. Heat transfer and macrostructure formation of Nb containing TiAl alloy directionally solidified by square cold crucible. In INTERMETALLICS. ISSN 0966-9795, NOV 2013, vol. 42, p. 184-191., WOS

[1.1] YANG, J.R. - CHEN, R.R. - DING, H.S. - GUO, J.J. - HAN, J.C. - FU, H.Z. Mechanism and evolution of heat transfer in mushy zone during cold crucible directionally solidifying TiAl alloys. In INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER. ISSN 0017-9310, AUG 2013, vol. 63, p. 216-223., WOS

[1.1] YANG, J.R. - CHEN, R.R. - DING, H.S. - GUO, J.J. - SU, Y.Q. - FU, H.Z. Flow field and its effect on microstructure in cold crucible directional solidification of Nb containing TiAl alloy. In JOURNAL OF MATERIALS PROCESSING TECHNOLOGY. ISSN 0924-0136, AUG 2013, vol. 213, no. 8, p. 1355-1363., WOS

[1.1] YAN, Erhu - LI, Xinzong - LIU, Dongmei - SU, Yanqing - GUO, Jingjie - FU, Hengzhi. A skull-aided technique for directional solidification of Nb-41Ni-40Ti hydrogen permeable alloy. In JOURNAL OF CRYSTAL GROWTH. ISSN 0022-0248, APR 1 2014, vol. 391, p. 78-84., WOS

[1.1] ZHANG, H.R. - TANG, X.X. - PAN, Q. - ZHOU, L. - ZHOU, C.E. - ZHANG, H. Microstructure and Mechanical Property Optimization of



NiTiAl-based Alloys: Directional Solidification in Novel Ceramic Crucibles. In HIGH TEMPERATURE MATERIALS AND PROCESSES. ISSN 0334-6455, AUG 2013, vol. 32, no. 4, p. 353-358., WOS

[1.1] ZHANG, H.R. - TANG, X.X. - ZHOU, C.G. - ZHANG, H. - ZHANG, S.W. Comparison of directional solidification of gamma-TiAl alloys in conventional Al<sub>2</sub>O<sub>3</sub> and novel Y<sub>2</sub>O<sub>3</sub>-coated Al<sub>2</sub>O<sub>3</sub> crucibles. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. ISSN 0955-2219, MAY 2013, vol. 33, no. 5, p. 925-934., WOS

[1.2] CHEN, Yu Yong - CHEN, Yu Yong - HAN, Jian Chao - HAN, Jian Chao - XIAO, Shu Long - XIAO, Shu Long - XU, Li Juan - TIAN, Jing. Research progress of rare earth yttrium application in  $\gamma$ -TiAl based alloy and precision thermal forming. In Zhongguo Youse Jinshu Xuebao/Chinese Journal of Nonferrous Metals. ISSN 10040609, 2014-01-01, 24, 5, pp. 1241-1250., SCOPUS

[1.2] Xiao, Z. - Zheng, L. - Yan, J. - Yang, L. - Zhang, H. Lamellar orientations and growth directions of beta dendrites in directionally solidified Ti<sub>47</sub>Al<sub>2</sub>Cr<sub>2</sub>Nb alloy. In Journal of Crystal Growth. ISSN 0022-0248, 2011, vol. 324, no. 1, pp. 309-313., SCOPUS

[1.2] YANG, Guang - KOU, Hongchao - WANG, Jun - LI, Jinshan - FU, Hengzhi. Interactions between TiAl melt and crucibles material during casting process. In 8th Pacific Rim International Congress on Advanced Materials and Processing 2013, PRICM 8, 2013-01-01, 3, pp. 2669-2678., SCOPUS

[1.2] YONGSHUANG, Cui - XIAOXIA, Tang - MING, Gao - LIMIN, Ma - HU, Zhang. Interactions between TiAl alloy and different oxide moulds under high-temperature and long-time condition. In High Temperature Materials and Processes. ISSN 03346455, 2013-06-01, 32, 3, pp. 295-302., SCOPUS

[1.2] ZHANG, H.R. - TANG, X.X. - ZHOU, L. - GAO, M. - ZHOU, C.G. - ZHANG, H. Interactions between Ni-44Ti-5Al-2Nb-Mo alloy and oxide ceramics during directional solidification process. In Journal of Materials Science, 2012, 47, 17, pp. 6451-6458., SCOPUS

[3] ČEGAN, T.: Vliv krystalizačních procesů na strukturu a vlastnosti intermetalických sloučenin na bázi Ti-Al. [Dizertačná práce]. Ostrava : VŠB-Technická univerzita Ostrava, 2013, 165 s.

ADCA88 LAPIN, Juraj. Effect of ageing on the microstructure and mechanical behaviour of a directionally solidified Ni<sub>3</sub>Al-based alloy. In *Intermetallics*, 1997, roč. 5, č. 8, s. 615-624.

Ohlasy:

[1.1] GONG, K. - ZHOU, Z.F. - SHUM, P.W. - LUO, H.L. - TIAN, Z.L. - LI, C.H. Tribological evaluation on Ni(3)Al-based alloy and its composites under unlubricated wear condition. In WEAR. ISSN 0043-1648, JAN 12 2011, vol. 270, no. 3-4, p. 195-203., WOS

[1.1] LI, M. - SONG, J.X. - LI, S.S. - HAN, Y.F. Effects of long-term aging at 1070 degrees C on microstructure of Ni<sub>3</sub>Al-base single-crystal alloy IC6SX. In RARE METALS. ISSN 1001-0521, MAR 2011, vol. 30, SI, p. 345-348., WOS

[1.1] MALCHARCZIKOVA, J. - CHMELIK, F. - PESICKA, J. - KURSA, M. - POHLUDKA, M. NON-ALLOYED Ni<sub>3</sub>Al BASED ALLOYS - PREPARATION AND EVALUATION OF MECHANICAL PROPERTIES. In METALURGIJA. ISSN 0543-5846, JUL-SEP 2013, vol. 52, no. 3, p. 309-312., WOS

[1.1] MAUREL, V. - BUSO, E. P. - FRACHON, J. - BESSON, J. - N'GUYEN, F. A methodology to model the complex morphology of rough interfaces. In INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES. ISSN 0020-7683, OCT 1 2014, vol. 51, no. 19-20, p. 3293-3302., WOS

[1.1] ZHU, S.Y. - BI, Q.L. - YANG, J. - LIU, W.M. Influence of Cr content on tribological properties of Ni<sub>3</sub>Al matrix high temperature self-lubricating composites. In TRIBOLOGY INTERNATIONAL. ISSN 0301-679X, SEP 2011, vol. 44, no. 10, p. 1182-1187., WOS

ADCA89 LAPIN, Juraj. Effect of directional solidification and heat treatments on the microstructure and mechanical properties of multiphase intermetallic Zr-doped Ni-Al-Cr-Ta-Mo alloy. In *Intermetallics*. - Oxford : Elsevier Science, 2006, vol. 14, no.12, p.1417-1427. ISSN 0966-9795.

Ohlasy:

[1.1] MOTEJADDED, H.B. - SOLTANIEH, M. - RASTEGARI, S. Dissolution Mechanism of a Zr Rich Structure in a Ni<sub>3</sub>Al Base Alloy. In JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY. ISSN 1005-0302, OCT 2011, vol. 27, no. 10, p. 885-892., WOS

[1.1] YANG, K. - CHEN, Z. - DONG, W.P. - WANG, Y.X. - ZHANG, M.Y. Microscopic phase-field study for oriented diffusion channel effect of nickel-based alloy and phases' effect mechanism. In SCIENCE CHINA-TECHNOLOGICAL SCIENCES. ISSN 1674-7321, APR 2011, vol. 54, no. 4, p. 835-840., WOS

[1.1] YANG, K. - CHEN, Z. - WANG, Y.X. - FAN, X.L. Microscopic phase-field study on directional coarsening mechanism caused by interaction between precipitates in Ni-Al-V alloy. In TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA. ISSN 1003-6326, JAN 2013, vol. 23, no. 1, p. 193-200., WOS

[1.1] YANG, K. - WANG, Y.X. - DONG, W.P. - CHEN, Z. - ZHANG, M.Y. Influence of the Competitive Growth between Two Phases on Rafting during Early Precipitation through Microscopic Phase-Field. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, SEP 2011, vol. 40, no. 9, p. 1605-1609., WOS

[1.1] ZHANG, J.F. - SHEN, J. - SHANG, Z. - FENG, Z.R. - FU, H.Z. Effect of Growth Rate on Microstructure and Interface Morphology of Directionally Solidified NiAl-7.8Mo Hypoeutectic Alloy. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, FEB 2013, vol. 42, no. 2, p. 263-267., WOS

ADCA90 LAPIN, Juraj. Microstructure and mechanical properties of iron aluminides processed by reactive squeeze infiltration. In *Materials Letters*, 2004, vol. 58, p. 3007-3011. ISSN 0167-577X.

Ohlasy:

[1.1] KANG, X.T. - TANG, H.P. - WANG, J.Y. - CHI, Y.D. - YANG, B.J. - WANG, J. - LI, Y.N. Effect of Pressing Pressure on Performance of Fe<sub>16</sub>Al<sub>2</sub>Cr Porous Materials. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, OCT 2011, vol. 40, no. 10, p. 1732-1736., WOS

[1.1] KANG, X.T. - TANG, H.P. - WANG, J.Y. - CHI, Y.D. - YANG, B.J. - WANG, J. - LI, Y.N. - WANG, Q.B. Preparation of Fe<sub>16</sub>Al<sub>2</sub>Cr Porous

Materials. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, JUL 2011, vol. 40, p. 400-404., WOS

[1.1] ZHU, L. - ZHANG, N.N. - ZHANG, B.C. - BOLOT, R. - LIAO, H.L. - CODDET, C. In Situ Synthesis of FeAl Dense Coatings by Very Low Pressure Reactive Plasma Spraying. In JOURNAL OF THERMAL SPRAY

TECHNOLOGY. ISSN 1059-9630, MAR 2013, vol. 22, no. 2-3, p. 90-95., WOS

[1.2] PÁLENÍKOVÁ, Lucie - JAN, Vít - ČUPERA, Jan - ČÍZEK, Jan. Microstructure of Fe-Al binary cold spray thick deposit after annealing. In METAL 2014 23rd International Conference on Metallurgy and Materials, Conference Proceedings, 2014-01-01, pp. 1328-1333., SCOPUS

ADCA91 LAPIN, Juraj - PELACHOVÁ, Tatiana - BAJANA, Otto. Microstructure and mechanical properties of a directionally solidified and aged intermetallic Ni-Al-Cr-Ti alloy with beta-gamma'-gamma-alpha. In *Intermetallics*, 2000, vol.8, no.12, p.20-21/52. ISSN 0966-9795.

Ohlasy:

[1.1] REVANKAR, Goutam Devaraya - SHETTY, Raviraj - RAO, Shrikantha Srinivas - GAITONDE, Vinayak Neelakanth. Analysis of Surface Roughness and Hardness in Titanium Alloy Machining with Polycrystalline Diamond Tool under Different Lubricating Modes. In MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS. ISSN 1516-1439, JUL-AUG 2014, vol. 17, no. 4, p. 1010-1022., WOS

ADCA92 LAPIN, Juraj - PELACHOVÁ, Tatiana. Microstructural stability of a cast Ti-45.2Al-2W-0.6Si-0.7B alloy at temperatures 973-1073 K. In *Intermetallics*. - Oxford : Elsevier Science, 2006, vol. 14, p.1175-1180. ISSN 0966-9795.

Ohlasy:

[1.1] BABU, R.P. - KARTHIKEYAN, S. Effect of stress orientation on microstructural evolution during creep of near-lamellar Ti-47Al-2Cr-2Nb. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, MAR 1 2013, vol. 564, p. 218-231., WOS

[1.1] CHEN HUI - SU YANQING - LUO LIANGSHUN - LI XINZHONG - WANG ZHANTAO - GUO JINGJIE - FU HENGZHI. Influence of silicide on fracture behavior of a fully lamellar Ti-46Al-0.5W-0.5Si alloy. In CHINA FOUNDRY. ISSN 1672-6421, 2012, vol. 9, no. 2, pp. 108., WOS

[1.1] CHEN HUI - SU YANQING - LUO LIANGSHUN - LI XINZHONG - GUO JINGJIE - FU HENGZHI. Microstructure evolution and mechanical properties of homogenizing treated fully lamellar Ti-46Al-0.5W-0.5Si alloy. In CHINA FOUNDRY. ISSN 1672-6421, 2013, vol. 10, no. 2, pp. 69-73., WOS

[1.1] CHEN HUI - SU YANQING - LUO LIANGSHUN - LI XINZHONG - GUO JINGJIE - FU HENGZHI. Tensile Properties and Crack Propagation of Heat Treated TiAl(W, Si) Alloy. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, JAN 2014, vol. 43, no. 1, p. 158-161., WOS

[1.1] ZHU, J.F. - YANG, W.W. - YANG, H.B. - WANG, F. Effect of Nb2O5 on the microstructure and mechanical properties of TiAl based composites produced by hot pressing. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, AUG 15 2011, vol. 528, no. 21, p. 6642-6646., WOS

- [1.1] ZHU, J.F. - YANG, W.W. - WANG, F. Microstructures and mechanical properties of (Ti,Cr)Al/Al<sub>2</sub>O<sub>3</sub> composites fabricated by reactive hot pressing from Ti, Al and Cr<sub>2</sub>O<sub>3</sub>. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, AUG 5 2013, vol. 567, p. 15-20., WOS
- [1.2] YANG, X. - REN, C. - WANG, Y. - CHEN, G. Experimental study on surface integrity of Ti-6Al-4V in high speed side milling. In Transactions of Tianjin University, 18 (3), 2012, pp. 206-212., SCOPUS
- [3] ČEGAN, T.: Vliv krystalizačních procesů na strukturu a vlastnosti intermetalických sloučenin na bázi Ti-Al. [Dizertačná práce]. Ostrava : VŠB-Technická univerzita Ostrava, 2013, 165 s.
- [3] THOMAS, M. - BACOS, M.-P. Processing and Characterization of TiAl-based Alloys: Towards an Industrial Scale. In AerospaceLab Journal, Issue 3, High Temperature Materials (nov.), 2011, pp. 1-11.

ADCA93 LAPIN, Juraj - PELACHOVÁ, Tatiana. Microstructure and mechanical properties of wrought aluminium alloy prepared by recycling of aluminium matrix composites reinforced with Inconel 601 fibres. In *Materials Science and Engineering*, 1999, roč. A271, č., s. 266-274.

Ohlasy:

- [1.1] LIU, K. - CAO, X. - CHEN, X. -G. Tensile Properties of Al-Cu 206 Cast Alloys with Various Iron Contents. In METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE. ISSN 1073-5623, MAY 2014, vol. 45A, no. 5, p. 2498-2507., WOS
- [1.2] Bu, X. - Shan, P. - Luo, Z. - Zheng, Z. Effect of solution treatment on microstructure of Inconel 601 nickel-based superalloy weld seam. In China Welding (English Edition). ISSN 1004-5341, 2011, vol. 20, no. 2, pp. 32-35., SCOPUS

ADCA94 LAPIN, Juraj - NAZMY, M. Microstructure and creep properties of a cast intermetallic Ti-46Al-2W-0.5Si alloy for gas turbine applications. In *Materials Science and Engineering*. A.Structural Materials, 2004, vol. A380, p. 298-307. (1.363 - IF2003). (2004 - Current Contents, WOS, SCOPUS). ISSN 0921-5093.

Ohlasy:

- [1.1] CHEN HUI - SU YANQING - LUO LIANGSHUN - LI XINZHONG - WANG ZHANTAO - GUO JINGJIE - FU HENGZHI. Influence of silicide on fracture behavior of a fully lamellar Ti-46Al-0.5W-0.5Si alloy. In CHINA FOUNDRY. ISSN 1672-6421, MAY 2012, vol. 9, no. 2, p. 108-113., WOS
- [1.1] CHEN HUI - SU YANQING - LUO LIANGSHUN - LI XINZHONG - GUO JINGJIE - FU HENGZHI. Tensile Properties and Crack Propagation of Heat Treated TiAl(W, Si) Alloy. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, JAN 2014, vol. 43, no. 1, p. 158-161., WOS
- [1.1] CHEN, H. - SU, Y.Q. - LUO, L.S. - LI, X.Z. - GUO, J.J. - FU, H.Z. Microstructure evolution and mechanical properties of homogenizing treated fully lamellar Ti-46Al-0.5W-0.5Si alloy. In CHINA FOUNDRY. ISSN 1672-6421, MAR 2013, vol. 10, no. 2, p. 69-73., WOS
- [1.1] CHEN, J. - JUNG, P. - HOFFELNER, W. Irradiation creep of candidate materials for advanced nuclear plants. In JOURNAL OF NUCLEAR MATERIALS. ISSN 0022-3115, OCT 2013, vol. 441, no. 1-3, p. 688-694., WOS
- [1.1] MAGNUSSON, P. - CHEN, J.C. - HOFFELNER, W. High temperature

creep of a helium-implanted titanium aluminide alloy. In JOURNAL OF NUCLEAR MATERIALS. ISSN 0022-3115, SEP 1 2011, vol. 416, no. 1-2, p. 60-64., WOS

[1.1] MAGNUSSON, P. - CHEN, J. - JUNG, P. - SAUVAGE, T. - HOFFELNER, W. - SPATIG, P. Helium embrittlement of a lamellar titanium aluminide. In JOURNAL OF NUCLEAR MATERIALS. ISSN 0022-3115, MAR 2013, vol. 434, no. 1-3, p. 252-258., WOS

[1.1] XIAO, L. - TIAN, S.G. - BAO, X.Y. - CHEN, L.Q. Influence of heat treatment on microstructure and creep properties of hot continuous rolled Ti-6Al-4V alloy. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, JAN 1 2013, vol. 559, p. 401-406., WOS

[1.2] HOFFELNER, Wolfgang. Materials for nuclear plants: From safe design to residual life assessments. In Materials for Nuclear Plants: From Safe Design to Residual Life Assessments, 2014-03-01, pp. 1-478., SCOPUS

[4] STANEKOVÁ, H. Microstructural stability of Ti-46Al-8Ta during creep. In Materials Engineering/ Materiálové inžinierstvo. ISSN 1335-0803, 2011, vol. 18, no. 1, s. 11-15.

ADCA95 LAPIN, Juraj - TIBERGHIE, D. - DELANNAY, Francis. On the parameters affecting the formation of iron aluminides during pressure-assisted infiltration of aluminium into a preform of steel fibres. In *Intermetallics*, 2000, roč. 8, č. 12, s. 1429-1438.

Ohlasy:

[1.1] FAN, X.M. - YIN, X.W. - WANG, L. - CHENG, L.F. - ZHANG, L.T. Processing, microstructure and ablation behavior of C/SiC-Ti<sub>3</sub>SiC<sub>2</sub> composites fabricated by liquid silicon infiltration. In CORROSION SCIENCE. ISSN 0010-938X, SEP 2013, vol. 74, p. 98-105., WOS

[1.1] YANG, G.R. - SONG, W.M. - MA, Y. - HAO, Y. The Bending Behavior of Surface Composite Layer Ni/WC Fabricated through Vacuum Infiltration Casting. In MANUFACTURING PROCESS TECHNOLOGY, PTS 1-5. ISSN 1022-6680, 2011, vol. 189-193, p. 385-390., WOS

[1.2] FAN, X. - YIN, X. - ZHANG, L. - CHENG, L. Fabrication of Ti<sub>3</sub>SiC<sub>2</sub> modified C/C-SiC composites by liquid silicon infiltration. In Fuhe Cailiao Xuebao/Acta Materiae Compositae Sinica, 2012, 29, 1, pp. 104-110., SCOPUS

ADCA96 LAPIN, Juraj - GABALCOVÁ, Zuzana. Solidification behaviour of TiAl-based alloys studied by directional solidification technique. In *Intermetallics*, 2011, vol.19, pp.797-804. (2.335 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 0966-9795.

Ohlasy:

[1.1] BROTZU, A. - FELLI, F. - PILONE, D. Effect of alloying elements on the behaviour of TiAl-based alloys. In INTERMETALLICS. ISSN 0966-9795, NOV 2014, vol. 54, p. 176-180., WOS

[1.1] DING, Hongsheng - NIE, Ge - CHEN, Ruirun - GUO, Jingjie - FU, Hengzhi. Influence of oxygen on microstructure and mechanical properties of directionally solidified Ti-47Al-2Cr-2Nb alloy. In MATERIALS & DESIGN. ISSN 0261-3069, 2012, vol. 41, no., pp. 108., WOS

[1.1] DING, Hongsheng - NIE, Ge - CHEN, Ruirun - GUO, Jingjie - FU, Hengzhi. Directional solidification of TiAl-W-Si alloy by electromagnetic

confinement of melt in cold crucible. In INTERMETALLICS. ISSN 0966-9795, 2012, vol. 31, no., pp. 264., WOS

[1.1] DING, H.S. - NIE, G. - WANG, Y.Z. - CHEN, R.R. - GUO, J.J. - FU, H.Z. Electromagnetic Cold Crucible Technology Applied for Producing Big-sized gamma-TiAl Based Ingots with Directional Growth Structure. In COST-AFFORDABLE TITANIUM IV. ISSN 1013-9826, 2013, vol. 551, p. 103-108., WOS

[1.1] HU, D. - YANG, C. - HUANG, A. - DIXON, M. - HECHT, U. Solidification and grain refinement in Ti<sub>45</sub>Al<sub>2</sub>Mn<sub>2</sub>Nb<sub>1</sub>B. In INTERMETALLICS. ISSN 0966-9795, 2012, vol. 22, no., pp. 68., WOS

[1.1] CHENG, X. - YUAN, C. - GREEN, N. - WITHEY, P. Evaluation of the Inertness of Investment Casting Molds Using Both Sessile Drop and Centrifugal Casting Methods. In METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE. ISSN 1073-5623, FEB 2013, vol. 44A, no. 2, p. 888-898., WOS

[1.1] CHENG, X. - YUAN, C. - GREEN, N. R. - WITHEY, P. A. The Study of the Oxidation of a Ti-45Al-2Nb-2Mn-0.2B Alloy in the Investment Casting Using an Yttria Face Coat Mould. In OXIDATION OF METALS. ISSN 0030-770X, FEB 2014, vol. 81, no. 1-2, SI, p. 287-298., WOS

[1.1] CHEN, Z.Y. - GONG, Z.Q. - CHAI, L.H. - XIANG, Z.L. - NIE, Z.R. Microstructural evolution of cast TiAlNb intermetallics for third generation gas turbine components. In MATERIALS SCIENCE AND TECHNOLOGY. ISSN 0267-0836, AUG 2013, vol. 29, no. 8, p. 937-942., WOS

[1.1] KARTAVYKH, A. V. - GORSHENKOV, M. V. - TCHERDYNTSEV, V. V. - PODGORNYY, D. A. On the state of boride precipitates in grain refined TiAl-based alloys with high Nb content. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, FEB 15 2014, vol. 586, p. S153-S158., WOS

[1.1] KARTAVYKH, A. V. - TCHERDYNTSEV, V. V. - GORSHENKOV, M. V. - KALOSHKIN, S. D. Microstructure engineering of TiAl-based refractory intermetallics within power-down directional solidification process. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, FEB 15 2014, vol. 586, p. S180-S183., WOS

[1.1] KARTAVYKH, A.V. - TCHERDYNTSEV, V.V. - GORSHENKOV, M.V. - PODGORNYY, D.A. - BORISOVA, Y.V. Tailored microstructure creation of TiAl-based refractory alloys within VGF solidification. In MATERIALS CHEMISTRY AND PHYSICS. ISSN 0254-0584, SEP 16 2013, vol. 141, no. 2-3, p. 643-650., WOS

[1.1] LI, Xinzhong - FAN, Jianglei - SU, Yanqing - LIU, Dongmei - GUO, Jingjie - FU, Hengzhi. Lamellar orientation and growth direction of alpha phase in directionally solidified Ti-46Al-0.5W-0.5Si alloy. In INTERMETALLICS. ISSN 0966-9795, 2012, vol. 27, no., pp. 38., WOS

[1.1] MOONEY, R.P. - MCFADDEN, S. - REBOW, M. - BROWNE, D.J. A Front Tracking Model for Transient Solidification of Al-7wt%Si in a Bridgman Furnace. In TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS. ISSN 0972-2815, DEC 2012, vol. 65, no. 6, SI, p. 527-530., WOS

[1.1] NIE, Ge - DING, Hongsheng - CHEN, Ruirun - GUO, Jingjie - FU, Hengzhi. Microstructural control and mechanical properties of Ti-47Al-2Cr-2Nb alloy by directional solidification electromagnetic cold crucible technique. In MATERIALS & DESIGN. ISSN 0261-3069, 2012, vol. 39, no., pp. 350., WOS

- [1.1] PILONE, D. - FELLI, F. - BROTZU, A. High temperature oxidation behaviour of TiAl-Cr-Nb-Mo alloys. In INTERMETALLICS. ISSN 0966-9795, DEC 2013, vol. 43, p. 131-137., WOS
- [1.1] WANG, Y. S. - HAO, G. J. - ZHANG, Y. - LIN, J. P. - QIAO, J. W. Fabrication and Mechanical Characterization of Ti-Based Metallic Glass Matrix Composites by the Bridgman Solidification. In METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE. ISSN 1073-5623, MAY 2014, vol. 45A, no. 5, p. 2357-2362., WOS
- [1.1] XIE, Zhuo-Cheng - GAO, Ting-Hong - GUO, Xiao-Tian - QIN, Xin-Mao - XIE, Quan. Glass formation and icosahedral medium-range order in liquid Ti-Al alloys. In COMPUTATIONAL MATERIALS SCIENCE. ISSN 0927-0256, DEC 2014, vol. 95, p. 502-508., WOS
- [1.1] XIE, Zhuo-Cheng - GAO, Ting-Hong - GUO, Xiao-Tian - QIN, Xin-Mao - XIE, Quan. Growth of icosahedral medium-range order in liquid TiAl alloy during rapid solidification. In JOURNAL OF NON-CRYSTALLINE SOLIDS. ISSN 0022-3093, JUL 1 2014, vol. 394, p. 16-21., WOS
- [1.1] XIE, Zhuo-Cheng - GAO, Ting-Hong - GUO, Xiao-Tian - QIN, Xin-Mao - XIE, Quan. Evolution of icosahedral clusters during the rapid solidification of liquid TiAl alloy. In PHYSICA B-CONDENSED MATTER. ISSN 0921-4526, MAY 1 2014, vol. 440, p. 130-137., WOS
- [1.1] XIE, Zhuo-Cheng - GAO, Ting-Hong - GUO, Xiao-Tian - QIN, Xin-Mao - XIE, Quan. Network connectivity in icosahedral medium-range order of metallic glass: A molecular dynamics simulation. In JOURNAL OF NON-CRYSTALLINE SOLIDS. ISSN 0022-3093, DEC 15 2014, vol. 406, p. 31-36., WOS
- [1.1] YANG, C. - HU, D. - HUANG, A. - DIXON, M. Solidification and grain refinement in Ti<sub>45</sub>Al<sub>2</sub>Mn<sub>2</sub>Nb<sub>1</sub>B subjected to fast cooling. In INTERMETALLICS. ISSN 0966-9795, JAN 2013, vol. 32, p. 64-71., WOS
- [1.1] YANG, J.R. - CHEN, R.R. - DING, H.S. - GUO, J.J. - HAN, J.C. - FU, H.Z. Heat transfer and macrostructure formation of Nb containing TiAl alloy directionally solidified by square cold crucible. In INTERMETALLICS. ISSN 0966-9795, NOV 2013, vol. 42, p. 184-191., WOS
- [1.1] ZHANG, H.R. - TANG, X.X. - ZHOU, C.G. - ZHANG, H. - ZHANG, S.W. Comparison of directional solidification of gamma-TiAl alloys in conventional Al<sub>2</sub>O<sub>3</sub> and novel Y<sub>2</sub>O<sub>3</sub>-coated Al<sub>2</sub>O<sub>3</sub> crucibles. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. ISSN 0955-2219, MAY 2013, vol. 33, no. 5, p. 925-934., WOS
- [1.1] ZHANG, Y. - LI, X.Z. - GUO, J.J. - SU, Y.Q. - FU, H.Z. Effect of growth rate on characteristic lengths of microstructure in directionally solidified Ti-46Al-2Cr-2Nb-0.2B alloy. In CHINA FOUNDRY. ISSN 1672-6421, SEP 2013, vol. 10, no. 5, p. 304-309., WOS
- [1.1] ZHANG, Y. - MA, S. G. - QIAO, J. W. Morphology Transition from Dendrites to Equiaxed Grains for AlCoCrFeNi High-Entropy Alloys by Copper Mold Casting and Bridgman Solidification. In METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE. ISSN 1073-5623, 2012, vol. 43A, no. 8, pp. 2625., WOS
- [1.2] BROTZU, A. - FELLI, F. - PILONE, D. Effects of the manufacturing process on fracture behaviour of cast TiAl intermetallic alloys. In Frattura ed

Integrita Strutturale, 2014-01-01, 8, 27, pp. 66-73., SCOPUS

[1.2] CHEN, R. - YANG, J. - DING, H. - QUO, J. - FU, H. Tahe role of gd addition in the microstructure and mechanical property of directionally solidified ti46a10. 5w0. 5si alloys. In Ti 2011 Proceedings of the 12th World Conference on Titanium, 2012, 2, pp. 1294-1298., SCOPUS

[1.2] CHU, Y.D. - CHANG, H. - ZHANG, Y.J. - KOU, H.C. - ZHONG, H. - LI, J.S. Numerical simulation of counter gravity casting of TiAl blades. In Ti 2011 Proceedings of the 12th World Conference on Titanium, 2012, 3, pp. 1779-1782., SCOPUS

[1.2] YU, Ai Wu - YANG, Cheng Gang - HE, Peng - CHEN, He. Effect of Ti and Zr composite refiner on microstructure and tensile properties of pure aluminum. In Advanced Materials Research. ISSN 10226680, 2014-01-01, 1056, pp. 47-51., SCOPUS

[3] ČEGAN, T.: Vliv krystalizačních procesů na strukturu a vlastnosti intermetalických sloučenin na bázi Ti-Al. [Dizertačná práce]. Ostrava : VŠB-Technická univerzita Ostrava, 2013, 165 s.

ADCA97 LOFAJ, František - MOSKALEWICZ, Tomasz - CEMPURA, Gregorz - MIKULA, Marian - DUSZA, Ján - CZYRSKA-FILEMONOWICZ, Aleksandra. Nanohardness and tribological properties of nc-TiB<sub>2</sub> coatings. In *Journal of the European Ceramic Society*, 2013, vol.33, p.2347-2353. (2.360 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0955-2219.

Ohlasy:

[1.1] ERIKSSON, A.O. - TENGSTRAND, O. - LU, J. - JENSEN, J. - EKLUND, P. - ROSEN, J. - PETROV, I. - GREENE, J.E. - HULTMAN, L. Si incorporation in Ti<sub>1-x</sub>Si<sub>x</sub>N films grown on TiN(001) and (001)-faceted TiN(111) columns. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, OCT 25 2014, vol. 257, p. 121-128., WOS

[1.1] CHEN, H.B. - WANG, Z. - WU, Z.J. Investigation and characterization of densification, processing and mechanical properties of TiB<sub>2</sub>-SiC ceramics. In MATERIALS & DESIGN. ISSN 0261-3069, DEC 2014, vol. 64, p. 9-14., WOS

[1.1] LI, H. - CHEN, Z. - LI, K. - SHEN, Q. - CHU, Y. - FU, Q. Wear behavior of SiC nanowire-reinforced SiC coating for C/C composites at elevated temperatures. In *Journal of the European Ceramic Society*, 2013, 33, 15-16, pp. 2961-2969., WOS

[1.1] WU, S.J. - LI, H. - WU, S.Y. - GUO, Q. - GUO, B. Preparation of titanium carbide-titanium boride coatings on Ti6Al4V by PIRAC. In SURFACE ENGINEERING. ISSN 0267-0844, SEP 2014, vol. 30, no. 9, p. 693-696., WOS

[1.2] CHEN, Hongbo - WANG, Zhi - WU, Zhanjun. Investigation and characterization of densification, processing and mechanical properties of TiB<sub>2</sub>-SiC ceramics. In *Materials and Design*. ISSN 02613069, 2014-01-01, 64, pp. 9-14., SCOPUS

[1.2] WU, Shoujun - LI, H. - WU, S. Y. - GUO, Q. - GUO, B. Preparation of titanium carbide-titanium boride coatings on Ti6Al4V by PIRAC. In *Surface Engineering*. ISSN 02670844, 2014-01-01, 30, 9, pp. 693-696., SCOPUS

ADCA98 MARKUŠ, Štefan - MEAD, D.J. Axisymmetric and asymmetric wave motion in orthotropic cylinders. In *Journal of Sound and Vibration*, 1995, roč. 181, č. 1, s. 127-147.



Ohlasy:

[1.1] GRAVENKAMP, Hauke - BIRK, Carolin - SONG, Chongmin. The computation of dispersion relations for axisymmetric waveguides using the Scaled Boundary Finite Element Method. In *ULTRASONICS*. ISSN 0041-624X, JUL 2014, vol. 54, no. 5, p. 1373-1385., WOS

[1.1] KUNTE, M.V. - SARKAR, A. - SONTI, V.R. Generalized asymptotic expansions for the wavenumbers in infinite flexible in vacuo orthotropic cylindrical shells. In *JOURNAL OF SOUND AND VIBRATION*. ISSN 0022-460X, NOV 7 2011, vol. 330, no. 23, p. 5628-5643., WOS

[1.1] KUNTE, M.V. - SARKAR, A. - SONTI, V.R. Asymptotic expansions for the coupled wavenumbers in an infinite orthotropic flexible fluid-filled cylindrical shell. In *JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA*. ISSN 0001-4966, JUN 2012, vol. 131, no. 6, p. 4272-4282., WOS

[1.1] SUBHANI, M. - LI, J.C. - GRAVENKAMP, H. - SAMALI, B. Effect of elastic modulus and Poisson's ratio on guided wave dispersion using transversely isotropic material modelling. In *STRUCTURAL HEALTH ASSESSMENT OF TIMBER STRUCTURES*. ISSN 1022-6680, 2013, vol. 778, p. 303-311., WOS

[1.1] ZAKHAROV, D.D. Resonance effects of the axisymmetrical mode propagation in composite cylindrical solids with nematic coatings. In *ACOUSTICAL PHYSICS*. ISSN 1063-7710, MAR 2011, vol. 57, no. 2, p. 246-252., WOS

ADCA99     MARKUŠ, Štefan. Damping properties of layered cylindrical shells, vibrating in axially symmetric modes. In *Journal of Sound and Vibration*, 1976, vol.48, no.4, p.511-524. ISSN 0022-460 X.

Ohlasy:

[1.1] GANGEMI, P.J. - KESSISSOGLOU, N.J. - CARESTA, M. - TSO, Y. Active control of the accordion modes of a submerged hull. In *JOURNAL OF LOW FREQUENCY NOISE VIBRATION AND ACTIVE CONTROL*. ISSN 0263-0923, 2011, vol. 30, no. 3, p. 169-184., WOS

[1.1] LI, Jinqiang - NARITA, Yoshihiro. Vibration suppression for laminated cylindrical panels with arbitrary edge conditions. In *JOURNAL OF VIBRATION AND CONTROL*. ISSN 1077-5463, 2013, vol. 19, no. 4, pp. 626-640., WOS

[1.1] MEYER, M. - BIERMANN, J.W. Vibroacoustics of composite housing for electrical motors. In *PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART K-JOURNAL OF MULTI-BODY DYNAMICS*. ISSN 1464-4193, 2012, vol. 226, no. K4, p. 385-397., WOS

[1.1] YEH, J.Y. Vibration and damping analysis of orthotropic cylindrical shells with electrorheological core layer. In *AEROSPACE SCIENCE AND TECHNOLOGY*. ISSN 1270-9638, JUN 2011, vol. 15, no. 4, p. 293-303., WOS

[1.2] CARESTA, M. - KESSISSOGLOU, N. Active control of sound radiated by a submarine hull in axisymmetric vibration using inertial actuators. In *Journal of Vibration and Acoustics, Transactions of the ASME*, 2012, 134, 1, pp., SCOPUS

[1.2] KUMAR, N. - SINGH, S.P. Vibration control of curved panel using smart damping. In *Mechanical Systems and Signal Processing*, 2012, 30, pp. 232-247., SCOPUS

[1.2] YAO, X.-L. - WANG, X.-Z. - SUN, L.-Q. Acoustic transmission

analysis of cylindrical shell with viscoelastic layer coating. In Zhendong yu Chongji/Journal of Vibration and Shock, 2012, 31, 15, pp. 116-120., SCOPUS

- ADCA100    MARKUŠ, Štefan. Refined theory of damped axisymmetric vibrations of double-layered cylindrical shells. In *Proceedings of the Institution of Mechanical Engineers*. Part C.Mechanical Engineering Science, 1979, vol.21, no.1, p.33-37. ISSN 0954-4062.

Ohlasy:

[1.2]    MEYER, M. - BIERMANN, J.-W. Vibroacoustics of composite housing for electrical motors. In *Proceedings of the Institution of Mechanical Engineers*, Part K: Journal of Multi-body Dynamics, 2012, 226, 4, pp. 385-397., SCOPUS

[1.2]    YAO, X.-L. - WANG, X.-Z. - SUN, L.-Q. Acoustic transmission analysis of cylindrical shell with viscoelastic layer coating. In Zhendong yu Chongji/Journal of Vibration and Shock, 2012, 31, 15, pp. 116-120., SCOPUS

- ADCA101    MARKUŠ, Štefan - MEAD, D.J. Wave motion in a three-layered, orthotropic-isotropic-orthotropic, composite shell. In *Journal of Sound and Vibration*, 1995, roč. 181, č. 1, s. 149-167.

Ohlasy:

[1.1]    AKBAROV, S. D. - KEPCELER, T. - EGILMEZ, M. Mert. On the influence of initial strains in layers on the propagation of torsional waves in a hollow sandwich cylinder (soft core and stiff face layers). In *MECHANICS OF COMPOSITE MATERIALS*. ISSN 0191-5665, 2013, vol. 49, no. 3, pp. 297-304., WOS

[1.1]    AKBAROV, S.D. - KEPCELER, T. - EGILMEZ, M.M. Torsional wave dispersion in a finitely pre-strained hollow sandwich circular cylinder. In *JOURNAL OF SOUND AND VIBRATION*. ISSN 0022-460X, AUG-SEP 2011, vol. 330, no. 18-19, p. 4519-4537., WOS

[1.1]    AKBAROV, S.D. - KEPCELER, T. - EGILMEZ, M.M. On the Some Particularities of the Torsional Wave Dispersion in a Finitely Pre-Deformed Hollow Sandwich Cylinder. In *CMC-COMPUTERS MATERIALS & CONTINUA*. ISSN 1546-2218, JUL 2012, vol. 30, no. 1, p. 83-97., WOS

[1.2]    ELMAIMOUNI, Lahoucine - ELMAIMOUNI, Lahoucine - LEFEBVRE, Jean Etienne - LEFEBVRE, Jean Etienne - LEFEBVRE, Jean Etienne - RATOLOJANAHARY, Faniry Emilson - GRYBA, Tadeusz - GRYBA, Tadeusz - GRYBA, Tadeusz. Acoustic wave propagation in functionally graded materials cylindrically: Polynomial approach. In *2014 2nd World Conference on Complex Systems, WCCS 2014*, 2014-01-01, pp. 440-445., SCOPUS

[1.2]    GRAVENKAMP, Hauke - BIRK, Carolin - SONG, Chongmin. The computation of dispersion relations for axisymmetric waveguides using the Scaled Boundary Finite Element Method. In *Ultrasonics*. ISSN 0041624X, 2014-01-01, 54, 5, pp. 1373-1385., SCOPUS

- ADCA102    MAZÚCH, Tibor - HORÁČEK, Jaromír - TRNKA, Jan - VESELÝ, Ján. Natural modes and frequencies of a thin clamped-free steel cylindrical storage tank partially filled with water: FEM and measurement. In *Journal of Sound and Vibration*, 1996, roč. 193, č. 3, s. 669-690.

Ohlasy:

[1.1]    AMIRI, Moslem - SABBAGH-YAZDI, Saeed Reza. Influence of roof

on dynamic characteristics of dome roof tanks partially filled with liquid. In THIN-WALLED STRUCTURES. ISSN 0263-8231, JAN 2012, vol. 50, no. 1, p. 56-67., WOS

[1.1] JALALI, Hassan - PARVIZI, Fardin. Experimental and numerical investigation of modal properties for liquid-containing structures. In JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY. ISSN 1738-494X, MAY 2012, vol. 26, no. 5, p. 1449-1454., WOS

[1.1] SABRI, F. - LAKIS, A.A. Hydroelastic vibration of partially liquid-filled circular cylindrical shells under combined internal pressure and axial compression. In AEROSPACE SCIENCE AND TECHNOLOGY. ISSN 1270-9638, JUN 2011, vol. 15, no. 4, p. 237-248., WOS

[1.1] SILVA, F.M.A. - GONCALVES, P.B. - DEL PRADO, Z.J.G.N. Parametric Instability and Snap-Through of Partially Fluid-Filled Cylindrical Shells. In PROCEEDINGS OF THE TWELFTH EAST ASIA-PACIFIC CONFERENCE ON STRUCTURAL ENGINEERING AND CONSTRUCTION (EASEC12). ISSN 1877-7058, 2011, vol. 14., WOS

[1.2] BOCHKAREV, S.A. - MATVEENKO, V.P. Natural vibrations and stability of shells of revolution interacting with an internal fluid flow. In Journal of Sound and Vibration. ISSN 0022-460X, 2011, vol. 330, no. 13, p. 3084-3101., SCOPUS

[1.2] ELKHOLY, Said A. - ELKHOLY, Said A. - ELSAYED, Alaa A. - EL-ARISS, Bilal - SADEK, Safaa A. Optimal finite element modelling for modal analysis of liquid storage circular tanks. In International Journal of Structural Engineering. ISSN 17587328, 2014-01-01, 5, 3, pp. 207-241., SCOPUS

[1.2] ERGIN, A. - UGURLU, B. Hydroelasticity of marine structures. In Marine Technology and Engineering. ISBN 978-041562888-4, 2011, vol. 1, p. 391-404., SCOPUS

[1.2] MA, Juan - HUANG, Mei. Seismic analysis of lead-bismuth-cooled fast reactor vessel. In International Conference on Nuclear Engineering, Proceedings, ICONE, 2013-01-01, 2, pp., SCOPUS

[1.2] PAÏDOUSSIS, Michael P. Fluid-Structure Interactions: Second Edition. In Fluid-Structure Interactions: Second Edition, 2013-12-01, 1, pp. 1-867., SCOPUS

[1.2] UTSUMI, Masahiko - ISHIDA, Kazuo. Vibrations of pipes and their supporting beams caused by tank bulging mode. In Journal of Vibration and Acoustics, Transactions of the ASME. ISSN 10489002, 2013-05-16, 135, 3, pp., SCOPUS

[1.2] ZHONG, Y. - DI, M. - LI, X. - FAN, Y. Analyses and design of resonant cylindrical liquid density sensor. In 2012 IEEE 5th International Conference on Advanced Computational Intelligence, ICACI 2012, 2012, pp. 1089-1093., SCOPUS

ADCA103 MAZÚCH, Tibor. Wave dispersion modelling in anisotropic shells and rods by the finite element method. In *Journal of Sound and Vibration*, 1996, roč. 198, č. 4, s. 429-438.

Ohlasy:

[1.1] GALVAGNI, A. - CAWLEY, P. The reflection of guided waves from simple supports in pipes. In JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA. ISSN 0001-4966, APR 2011, vol. 129, no. 4, p. 1869-1880., WOS

[1.1] GRAVENKAMP, H. - BIRK, C. - SONG, C.M. The computation of

dispersion relations for axisymmetric waveguides using the Scaled Boundary Finite Element Method. In *ULTRASONICS*. ISSN 0041-624X, JUL 2014, vol. 54, no. 5, p. 1373-1385., WOS

[1.1] NUCERA, C. - DI SCALEA, F.L. Nonlinear Semianalytical Finite-Element Algorithm for the Analysis of Internal Resonance Conditions in Complex Waveguides. In *JOURNAL OF ENGINEERING MECHANICS*. ISSN 0733-9399, MAR 1 2014, vol. 140, no. 3, p. 502-522., WOS

[1.1] SOROHAN, S. - CONSTANTIN, N. - GAVAN, M. - ANGHEL, V. Extraction of dispersion curves for waves propagating in free complex waveguides by standard finite element codes. In *ULTRASONICS*. ISSN 0041-624X, MAY 2011, vol. 51, no. 4, p. 503-515., WOS

ADCA104 MEAD, D.J. - MARKUŠ, Štefan. Coupled flexural-longitudinal wave-motion in a periodic beam. In *Journal of Sound and Vibration*, 1983, vol.90, no.1, p.1-4. ISSN 0022-460 X.

Ohlasy:

[1.1] CHEN SHENG-BING - WEN JI-HONG - WANG GANG - WEN XI-SEN. Tunable band gaps in acoustic metamaterials with periodic arrays of resonant shunted piezos. In *CHINESE PHYSICS B*. ISSN 1674-1056, JUL 2013, vol. 22, no. 7., WOS

[1.1] CHEN, Shengbing - WANG GANG - WEN, Jihong - WEN, Xisen. Wave propagation and attenuation in plates with periodic arrays of shunted piezo-patches. In *JOURNAL OF SOUND AND VIBRATION*. ISSN 0022-460X, MAR 18 2013, vol. 332, no. 6, p. 1520-1532., WOS

[1.1] CHEN, S.B. - WEN, J.H. - WANG, G. - HAN, X.Y. - WEN, X.S. Locally Resonant Gaps of Phononic Beams Induced by Periodic Arrays of Resonant Shunts. In *CHINESE PHYSICS LETTERS*. ISSN 0256-307X, SEP 2011, vol. 28, no. 9., WOS

[1.1] CHEN, S.B. - WEN, J.H. - WANG, G. - YU, D.L. - WEN, X.S. Improved modeling of rods with periodic arrays of shunted piezoelectric patches. In *JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES*. ISSN 1045-389X, SEP 2012, vol. 23, no. 14, p. 1613-1621., WOS

[1.1] JUAREZ, Manuel - LARSEN, Ivy L. - KLASSEN, Mark - AALHUS, Jennifer L. Canadian beef tenderness survey: 2001-2011. In *CANADIAN JOURNAL OF ANIMAL SCIENCE*. ISSN 0008-3984, MAR 2013, vol. 93, no. 1, p. 89-97., WOS

[1.1] LU, Jian-Fei - YUAN, Hai-Yan. Free Vibration Analysis of a Periodic Viaduct Supported by Pile Foundations. In *JOURNAL OF BRIDGE ENGINEERING*. ISSN 1084-0702, NOV 2014, vol. 19, no. 11., WOS

[1.1] LU, J.F. - JENG, D.S. Energy bands of a periodic viaduct in out-of-plane vibration: Coupling with a half-space. In *EUROPEAN JOURNAL OF MECHANICS A-SOLIDS*. ISSN 0997-7538, JAN-FEB 2012, vol. 31, no. 1, p. 21-36., WOS

[1.1] LU, J.F. - LI, J.H. - JENG, D.S. A model for the energy bands of an "open"-type periodic structure: a periodic viaduct coupled with the half-space. In *ACTA MECHANICA*. ISSN 0001-5970, FEB 2012, vol. 223, no. 2, p. 257-277., WOS

[1.1] MANIMALA, James M. - SUN, C. T. Microstructural design studies for locally dissipative acoustic metamaterials. In *JOURNAL OF APPLIED*

PHYSICS. ISSN 0021-8979, JAN 14 2014, vol. 115, no. 2., WOS

[1.1] NOUH, M. - ALDRAIHEM, O. - BAZ, A. Vibration Characteristics of Metamaterial Beams With Periodic Local Resonances. In JOURNAL OF VIBRATION AND ACOUSTICS-TRANSACTIONS OF THE ASME. ISSN 1048-9002, DEC 2014, vol. 136, no. 6., WOS

[1.1] NOUH, M. - ALDRAIHEM, O. - BAZ, A. Metamaterial Structures with Periodic Local Resonances. In HEALTH MONITORING OF STRUCTURAL AND BIOLOGICAL SYSTEMS 2014. ISSN 0277-786X, 2014, vol. 9064., WOS

[1.1] STAROSVETSKY, Y. - VAKAKIS, A.F. Primary wave transmission in systems of elastic rods with granular interfaces. In WAVE MOTION. ISSN 0165-2125, NOV 2011, vol. 48, no. 7, p. 568-585., WOS

[1.1] YUN, Y. - MAK, C. M. A Study of Power Transmission Through a Finite Periodic Dual-layer Beam Structure with Transverse Connection. In JOURNAL OF LOW FREQUENCY NOISE VIBRATION AND ACTIVE CONTROL. ISSN 0263-0923, 2013, vol. 32, no. 3, p. 177-188., WOS

[1.1] YUN, Y. - MAK, C.M. Experimental study of coupled vibration in a finite periodic dual-layered structure with transverse connection. In APPLIED ACOUSTICS. ISSN 0003-682X, APR 2011, vol. 72, no. 5, p. 287-296., WOS

ADCA105 MEAD, D.J. - MARKUŠ, Štefan. Loss factors and resonant frequencies of encastred damped sandwich beams. In *Journal of Sound and Vibration*, 1970, vol.12, no.1, p.99-112. ISSN 0022-460 X.

Ohlasy:

[1.1] AENLLE, M. L. - PELAYO, F. Frequency Response of Laminated Glass Elements: Analytical Modeling and Effective Thickness. In APPLIED MECHANICS REVIEWS. ISSN 0003-6900, MAR 2013, vol. 65, no. 2., WOS

[1.1] ALLAHVERDIZADEH, Akbar - MAHJOOB, Mohammad J. - NASROLLAHZADEH, Naser - ESHRAGHI, Iman. Optimal parameters estimation and vibration control of a viscoelastic adaptive sandwich beam incorporating an electrorheological fluid layer. In JOURNAL OF VIBRATION AND CONTROL. ISSN 1077-5463, SEP 2014, vol. 20, no. 12, p. 1855-1868., WOS

[1.1] ALLAHVERDIZADEH, A. - MAHJOOB, M. J. - MALEKI, M. - NASROLLAHZADEH, N. - NAEI, M. H. Structural modeling, vibration analysis and optimal viscoelastic layer characterization of adaptive sandwich beams with electrorheological fluid core. In MECHANICS RESEARCH COMMUNICATIONS. ISSN 0093-6413, JUL 2013, vol. 51, p. 15-22., WOS

[1.1] ALLAHVERDIZADEH, A. - MAHJOOB, M. J. - ESHRAGHI, I. - NASROLLAHZADEH, N. On the vibration behavior of functionally graded electrorheological sandwich beams. In INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES. ISSN 0020-7403, MAY 2013, vol. 70, p. 130-139., WOS

[1.1] ALLAHVERDIZADEH, A. - ESHRAGHI, I. - MAHJOOB, M. J. - NASROLLAHZADEH, N. Nonlinear vibration analysis of FGER sandwich beams. In INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES. ISSN 0020-7403, JAN 2014, vol. 78, p. 167-176., WOS

[1.1] FOTSING, E. R. - SOLA, M. - ROSS, A. - RUIZ, Edu. Lightweight damping of composite sandwich beams: Experimental analysis. In JOURNAL OF COMPOSITE MATERIALS. ISSN 0021-9983, JUN 2013, vol. 47, no. 12, p.

1501-1511., WOS

[1.1] CHENG, Tai-Hong - LI, Zhen-Zhe - SHEN, Yun-De. Vibration Analysis of Cylindrical Sandwich Aluminum Shell with Viscoelastic Damping Treatment. In ADVANCES IN MATERIALS SCIENCE AND ENGINEERING. ISSN 1687-8434, 2013., WOS

[1.1] JUAREZ, Manuel - LARSEN, Ivy L. - KLASSEN, Mark - AALHUS, Jennifer L. Canadian beef tenderness survey: 2001-2011. In CANADIAN JOURNAL OF ANIMAL SCIENCE. ISSN 0008-3984, MAR 2013, vol. 93, no. 1, p. 89-97., WOS

[1.1] LOPEZ-AERILLE, M. - PELAYO, F. Dynamic effective thickness in laminated-glass beams and plates. In COMPOSITES PART B-ENGINEERING. ISSN 1359-8368, DEC 2014, vol. 67, p. 332-347., WOS

[1.1] MANKOUR, A. - BOUDJEMAI, A. - AMRI, R. - SALEM, H. Analysis of design parameter influence on the dynamic frequency response of CFFF honeycomb sandwich plate. In MATERIALS AND STRUCTURES. ISSN 1022-6680, 2013, vol. 682, p. 57-64., WOS

[1.1] NAYAK, B. - DWIVEDY, S.K. - MURTHY, K.S.R.K. Dynamic analysis of magnetorheological elastomer-based sandwich beam with conductive skins under various boundary conditions. In JOURNAL OF SOUND AND VIBRATION. ISSN 0022-460X, APR 25 2011, vol. 330, no. 9, p. 1837-1859., WOS

[1.1] SAIDI, I. - GAD, E.F. - WILSON, J.L. - HARITOS, N. Development of passive viscoelastic damper to attenuate excessive floor vibrations. In ENGINEERING STRUCTURES. ISSN 0141-0296, DEC 2011, vol. 33, no. 12, p. 3317-3328., WOS

[1.1] VASQUES, C.M.A. - CARDOSO, L.C. Viscoelastic Damping Technologies: Finite Element Modeling and Application to Circular Saw Blades. In VIBRATION AND STRUCTURAL ACOUSTICS ANALYSIS: CURRENT RESEARCH AND RELATED TECHNOLOGIES. 2011, p. 207-264., WOS

[1.2] NAYAK, B. - DWIVEDY, S.K. - MURTHY, K.S.R.K. Multi-frequency excitation of magnetorheological elastomer-based sandwich beam with conductive skins. In International Journal of Non-Linear Mechanics, 2012, 47, 5, pp. 448-460., SCOPUS

[1.2] NGUYEN, T.H. - SAIDI, I. - GAD, E.F. - WILSON, J.L. - HARITOS, N. Performance of distributed multiple viscoelastic tuned mass dampers for floor vibration applications. In Advances in Structural Engineering, 2012, 15, 3, pp. 547-562., SCOPUS

[1.2] ZHOU, X. Q. - YU, D. Y. - SHAO, X. Y. - WANG, S. - TIAN, Y. H. Asymptotic analysis on flexural dynamic characteristics for a sandwich plate with periodically perforated viscoelastic damping material core. In Composite Structures. ISSN 02638223, 2014-12-01, 119, pp. 487-504., SCOPUS

ADCA106 MEAD, D.J. - MARKUŠ, Štefan. The forced vibration of a three-layer, damped sandwich beam with arbitrary boundary conditions. In *Journal of Sound and Vibration*, 1969, vol.10, no.2, p.163-175. ISSN 0022-460 X.

Ohlasy:

[1.1] AENLLE, M. L. - PELAYO, F. Frequency Response of Laminated Glass Elements: Analytical Modeling and Effective Thickness. In APPLIED MECHANICS REVIEWS. ISSN 0003-6900, MAR 2013, vol. 65, no. 2., WOS

[1.1] AGNESE, Fabio - SCARPA, Fabrizio. Macro-composites with

- star-shaped inclusions for vibration damping in wind turbine blades. In COMPOSITE STRUCTURES. ISSN 0263-8223, FEB 2014, vol. 108, p. 978-986., WOS
- [1.1] AGNESE, F. - SCARPA, F. Macro composites with non-classical Inclusions for vibration damping in wind turbine. In ACTIVE AND PASSIVE SMART STRUCTURES AND INTEGRATED SYSTEMS 2012. ISSN 0277-786X, 2012, vol. 8341., WOS
- [1.1] ALHAZZA, K.A. - MAJEED, M.A. Free vibrations control of a cantilever beam using combined time delay feedback. In JOURNAL OF VIBRATION AND CONTROL. ISSN 1077-5463, APR 2012, vol. 18, no. 5, p. 609-621., WOS
- [1.1] ALLAHVERDIZADEH, A. - MAHJOOB, M.J. - ESHRAGHI, I. - ASGHARIFARD-S, P. Effects of electrorheological fluid core and functionally graded layers on the vibration behavior of a rotating composite beam. In MECCANICA. ISSN 0025-6455, NOV 2012, vol. 47, no. 8, p. 1945-1960., WOS
- [1.1] ALLAHVERDIZADEH, A. - MAHJOOB, M. J. - ESHRAGHI, I. - NASROLLAHZADEH, N. On the vibration behavior of functionally graded electrorheological sandwich beams. In INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES. ISSN 0020-7403, MAY 2013, vol. 70, p. 130-139., WOS
- [1.1] ALLAHVERDIZADEH, A. - ESHRAGHI, I. - MAHJOOB, M. J. - NASROLLAHZADEH, N. Nonlinear vibration analysis of FGER sandwich beams. In INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES. ISSN 0020-7403, JAN 2014, vol. 78, p. 167-176., WOS
- [1.1] ANSARI, M. - KHAJEPOUR, A. - ESMAILZADEH, E. Application of level set method to optimal vibration control of plate structures. In JOURNAL OF SOUND AND VIBRATION. ISSN 0022-460X, FEB 18 2013, vol. 332, no. 4, p. 687-700., WOS
- [1.1] ASSAF, S. Finite Element Vibration Analysis of Damped Composite Sandwich Beams. In INTERNATIONAL JOURNAL OF ACOUSTICS AND VIBRATION. ISSN 1027-5851, DEC 2011, vol. 16, no. 4, p. 163-172., WOS
- [1.1] ASSAF, S. - GUERICH, M. - CUVELIER, P. Vibration and Damping Analysis of Plates with Partially Covered Damping Layers. In ACTA ACUSTICA UNITED WITH ACUSTICA. ISSN 1610-1928, JUL-AUG 2011, vol. 97, no. 4, p. 553-568., WOS
- [1.1] BAE, S. H. - CHO, J. R. - BAE, S. R. - JEONG, W. B. A discrete convolutional Hilbert transform with the consistent imaginary initial conditions for the time-domain analysis of five-layered viscoelastic sandwich beam. In COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING. ISSN 0045-7825, JAN 1 2014, vol. 268, p. 245-263., WOS
- [1.1] BOLCU, D. - STANESCU, M.M. - CLUCA, I. - DEGERATU, S. - GROZEA, M.A. Study of Some Elastic Properties for Sandwich Beams Reinforced with Different Types of Fabric. In MATERIALE PLASTICE. ISSN 0025-5289, JUN 2011, vol. 48, no. 2, p. 195-201., WOS
- [1.1] CAO, Xiongtao - HUA, Hongxing - ZHANG, Zhenguo. Acoustic Radiation From Stiffened Cylindrical Shells With Constrained Layer Damping. In JOURNAL OF VIBRATION AND ACOUSTICS-TRANSACTIONS OF THE ASME. ISSN 1048-9002, FEB 2013, vol. 135, no. 1., WOS
- [1.1] CAO, X.T. - ZHANG, Z.Y. - HUA, H.X. Free vibration of circular cylindrical shell with constrained layer damping. In APPLIED MATHEMATICS

AND MECHANICS-ENGLISH EDITION. ISSN 0253-4827, APR 2011, vol. 32, no. 4, p. 495-506., WOS

[1.1] DAMANPACK, A. R. - SHAKERI, M. - AGHDAM, M. M. A new finite element model for low-velocity impact analysis of sandwich beams subjected to multiple projectiles. In COMPOSITE STRUCTURES. ISSN 0263-8223, OCT 2013, vol. 104, p. 21-33., WOS

[1.1] DAMANPACK, A.R. - KHALILI, S.M.R. High-order free vibration analysis of sandwich beams with a flexible core using dynamic stiffness method. In COMPOSITE STRUCTURES. ISSN 0263-8223, APR 2012, vol. 94, no. 5, p. 1503-1514., WOS

[1.1] EGUCHI, H. - MASUDA, H. - SOGA, E. Improvement of damping performance by splitting damping material. In MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS. ISSN 0946-7076, SEP 2011, vol. 17, no. 9, p. 1497-1503., WOS

[1.1] FARZBOD, F. - LEAMY, M.J. Analysis of Bloch's Method in Structures with Energy Dissipation. In JOURNAL OF VIBRATION AND ACOUSTICS-TRANSACTIONS OF THE ASME. ISSN 1048-9002, OCT 2011, vol. 133, no. 5., WOS

[1.1] FARZBOD, F. - LEAMY, M.J. ANALYSIS OF BLOCH'S METHOD IN STRUCTURES WITH ENERGY DISSIPATION. In PROCEEDINGS OF THE ASME INTERNATIONAL MECHANICAL ENGINEERING CONGRESS AND EXPOSITION 2010, VOL 13. 2012, p. 401-408., WOS

[1.1] FERREIRA, A. J. M. - ARAUJO, A. L. - NEVES, A. M. A. - RODRIGUES, J. D. - CARRERA, E. - CINEFRA, M. - MORA SOARES, C. M. A finite element model using a unified formulation for the analysis of viscoelastic sandwich laminates. In COMPOSITES PART B-ENGINEERING. ISSN 1359-8368, FEB 2013, vol. 45, no. 1, p. 1258-1264., WOS

[1.1] GHINET, S. - ATALLA, N. Modeling thick composite laminate and sandwich structures with linear viscoelastic damping. In COMPUTERS & STRUCTURES. ISSN 0045-7949, AUG 2011, vol. 89, no. 15-16, p. 1547-1561., WOS

[1.1] GREWAL, Jasrobin Singh - SEDAGHATI, Ramin - ESMAILZADEH, Ebrahim. Vibration analysis and design optimization of sandwich beams with constrained viscoelastic core layer. In JOURNAL OF SANDWICH STRUCTURES & MATERIALS. ISSN 1099-6362, MAR 2013, vol. 15, no. 2, p. 203-228., WOS

[1.1] HANSEN, S.W. - IMANUVILOV, O. EXACT CONTROLLABILITY OF A MULTILAYER RAO-NAKRA PLATE WITH CLAMPED BOUNDARY CONDITIONS. In ESAIM-CONTROL OPTIMISATION AND CALCULUS OF VARIATIONS. ISSN 1292-8119, OCT 2011, vol. 17, no. 4, p. 1101-1132., WOS

[1.1] HASHEMINEJAD, Seyyed M. - NEZAMI, M. - PANAH, M. E. Aryaee. FLUTTER SUPPRESSION OF AN ELASTICALLY SUPPORTED PLATE WITH ELECTRO-RHEOLOGICAL FLUID CORE UNDER YAWED SUPERSONIC FLOWS. In INTERNATIONAL JOURNAL OF STRUCTURAL STABILITY AND DYNAMICS. ISSN 0219-4554, FEB 2013, vol. 13, no. 1., WOS

[1.1] HASHEMINEJAD, S.M. - NEZAMI, M. - PANAH, M.E.A. Supersonic flutter suppression of electrorheological fluid-based adaptive panels resting on elastic foundations using sliding mode control. In SMART



MATERIALS AND STRUCTURES. ISSN 0964-1726, APR 2012, vol. 21, no. 4., WOS

[1.1] HE, Yuanchao - CHEN, Wenlin - SUN, Shiwei - HAO, Lina. Finite Element Research on Damping of Viscoelastic Free Layer Damping Sheet. In MECHANICAL SCIENCE AND ENGINEERING IV. ISSN 1660-9336, 2014, vol. 472, p. 56-61., WOS

[1.1] HOU, S.W. - JIAO, Y.H. - CHEN, Z.B. OPTIMUM LAYOUT OF PASSIVE CONSTRAINED LAYER DAMPING TREATMENT USING GENETIC ALGORITHMS. In PROCEEDINGS OF THE ASME INTERNATIONAL MECHANICAL ENGINEERING CONGRESS AND EXPOSITION 2010, VOL 13. 2012, p. 371-376., WOS

[1.1] HU, G.L. - WANG, S.L. - LONG, M. Vibration Characteristics Analysis of MRE Cantilever Sandwich Beam. In INNOVATION AND SUSTAINABILITY OF MODERN RAILWAY. 2012, p. 153-159., WOS

[1.1] CHALLAMEL, N. - GIRHAMMAR, U.A. Lateral-torsional buckling of vertically layered composite beams with interlayer slip under uniform moment. In ENGINEERING STRUCTURES. ISSN 0141-0296, JAN 2012, vol. 34, p. 505-513., WOS

[1.1] CHEN, G.D. - WANG, W.J. - KARIM, K.R. - HUANG, X. Dynamic Response Reduction of Cantilevered Columns by Anchored Constrained Viscoelastic Layer Treatments. In JOURNAL OF ENGINEERING MECHANICS-ASCE. ISSN 0733-9399, JAN 2012, vol. 138, no. 1, p. 12-21., WOS

[1.1] CHEN, Lin - XIE, Xiaozhong - LI, Zhuo - PANG, Fuzhen. Vibration Characteristics and Optimization of Variable Cross-section Cylindrical Shell Structure under Multi-point Excitation. In ADVANCED MATERIALS DESIGN AND MECHANICS II. ISSN 1660-9336, 2013, vol. 372, p. 547-551., WOS

[1.1] CHOPRA, Inderjit - SIROHI, Jayant. Applications of Active Materials in Integrated Systems. In SMART STRUCTURES THEORY. 2014, no. 35, p. 739-896., WOS

[1.1] JUAREZ, Manuel - LARSEN, Ivy L. - KLASSEN, Mark - AALHUS, Jennifer L. Canadian beef tenderness survey: 2001-2011. In CANADIAN JOURNAL OF ANIMAL SCIENCE. ISSN 0008-3984, MAR 2013, vol. 93, no. 1, p. 89-97., WOS

[1.1] KARIM, K.R. - CHEN, G.D. Surface damping effect of anchored constrained viscoelastic layers on the flexural response of simply supported structures. In MECHANICAL SYSTEMS AND SIGNAL PROCESSING. ISSN 0888-3270, FEB 2012, vol. 27, p. 419-432., WOS

[1.1] KHALILI, S. M. R. - DEHKORDI, M. Botshekanan - CARRERA, E. - SHARIYAT, M. Non-linear dynamic analysis of a sandwich beam with pseudoelastic SMA hybrid composite faces based on higher order finite element theory. In COMPOSITE STRUCTURES. ISSN 0263-8223, FEB 2013, vol. 96, p. 243-255., WOS

[1.1] KOH, B. - RUSTIGHI, E. - MACE, B. - AMABILI, M. Numerical and experimental assessment of hybrid active-passive damping treatments. In PROCEEDINGS OF INTERNATIONAL CONFERENCE ON NOISE AND VIBRATION ENGINEERING (ISMA2012) / INTERNATIONAL CONFERENCE ON UNCERTAINTY IN STRUCTURAL DYNAMICS (USD2012). 2012, p. 1897-1910., WOS

[1.1] KOLEKAR, Shreedhar. Vibration Analysis of Simply Supported

Magneto Rheological Fluid Sandwich Beam. In ADVANCED RESEARCH IN DESIGN, MANUFACTURING AND MATERIALS. ISSN 1660-9336, 2014, vol. 612, p. 23-28., WOS

[1.1] KUMAR, Sanjiv - KUMAR, Rajiv. Theoretical and experimental vibration analysis of rotating beams with combined ACLD and Stressed Layer Damping treatment. In APPLIED ACOUSTICS. ISSN 0003-682X, MAY 2013, vol. 74, no. 5, p. 675-693., WOS

[1.1] KUMAR, S. - KUMAR, R. - SEHGAL, R. Enhanced ACLD treatment using stand-off-layer: FEM based design and experimental vibration analysis. In APPLIED ACOUSTICS. ISSN 0003-682X, NOV 2011, vol. 72, no. 11, p. 856-872., WOS

[1.1] KUMAR, S. - KUMAR, R. - SEHGAL, R. Performance Analysis of Finite Element and Energy Based Analytical Methods for Modeling of PCLD Treated Beams. In JOURNAL OF VIBRATION AND ACOUSTICS-TRANSACTIONS OF THE ASME. ISSN 1048-9002, JUN 2012, vol. 134, no. 3., WOS

[1.1] KUMAR, S. - SEHGAL, R. - KUMAR, R. Active Vibration Control of Beams By Combining Precompressed Layer Damping and ACLD Treatment: Theory and Experimental Implementation. In JOURNAL OF VIBRATION AND ACOUSTICS-TRANSACTIONS OF THE ASME. ISSN 1048-9002, DEC 2011, vol. 133, no. 6., WOS

[1.1] LASOV, V. - VACIK, J. - KOTTNER, R. Investigation of Dynamic Properties of Hybrid Laminate Structure. In MODELLING OF MECHANICAL AND MECHATRONICS SYSTEMS. ISSN 1877-7058, 2012, vol. 48, p. 358-366., WOS

[1.1] LEPOITTEVIN, Gregoire - KRESS, Gerald. Effect of the Thickness and Position of Soft Layers in Composite Laminates on the Bending Stiffness. In MECHANICS OF ADVANCED MATERIALS AND STRUCTURES. ISSN 1537-6494, JUN 1 2013, vol. 20, no. 6, p. 497-503., WOS

[1.1] LEPOITTEVIN, G. - KRESS, G. Finite element model updating of vibrating structures under free-free boundary conditions for modal damping prediction. In MECHANICAL SYSTEMS AND SIGNAL PROCESSING. ISSN 0888-3270, AUG 2011, vol. 25, no. 6, p. 2203-2218., WOS

[1.1] LI, Jinqiang - NARITA, Yoshihiro. Analysis and optimal design for the damping property of laminated viscoelastic plates under general edge conditions. In COMPOSITES PART B-ENGINEERING. ISSN 1359-8368, FEB 2013, vol. 45, no. 1, p. 972-980., WOS

[1.1] LONG, R. - BARRY, O. - OGUAMANAM, D.C.D. Finite Element Free Vibration Analysis of Soft-Core Sandwich Beams. In AIAA JOURNAL. ISSN 0001-1452, JAN 2012, vol. 50, no. 1, p. 235-238., WOS

[1.1] LOREDO, A. - PLESSY, A. - EL HAFIDI, A. - HAMZAOU, N. Numerical vibroacoustic analysis of plates with constrained-layer damping patches. In JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA. ISSN 0001-4966, APR 2011, vol. 129, no. 4, p. 1905-1918., WOS

[1.1] LU, Jing. Precision Element Method for Free Vibration Analysis of Rotational Shells with Partial Viscoelastic Core. In ADVANCES IN CHEMICAL, MATERIAL AND METALLURGICAL ENGINEERING, PTS 1-5. ISSN 1022-6680, 2013, vol. 634-638, p. 3778-3781., WOS

[1.1] MOHAMMADI, F. - SEDAGHATI, R. Vibration analysis and design optimization of viscoelastic sandwich cylindrical shell. In JOURNAL OF

SOUND AND VIBRATION. ISSN 0022-460X, JUN 4 2012, vol. 331, no. 12, p. 2729-2752., WOS

[1.1] MOHAMMADI, F. - SEDAGHATI, R. Effects of pressure and temperature on the vibration behavior of sandwich cylindrical shells. In JOURNAL OF SANDWICH STRUCTURES & MATERIALS. ISSN 1099-6362, MAR 2012, vol. 14, no. 2, p. 157-180., WOS

[1.1] MOHAMMADI, F. - SEDAGHATI, R. Linear and nonlinear vibration analysis of sandwich cylindrical shell with constrained viscoelastic core layer. In INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES. ISSN 0020-7403, JAN 2012, vol. 54, no. 1, p. 156-171., WOS

[1.1] MOHANTY, S.C. Parametric Instability of a Sandwich Beam with an Electrorheological Fluid Core Subjected to Various Boundary Conditions. In INTERNATIONAL JOURNAL OF ACOUSTICS AND VIBRATION. ISSN 1027-5851, MAR 2011, vol. 16, no. 1, p. 23-34., WOS

[1.1] MOITA, J.S. - ARAUJO, A.L. - MARTINS, P. - SOARES, C.M.M. - SOARES, C.A.M. A finite element model for the analysis of viscoelastic sandwich structures. In COMPUTERS & STRUCTURES. ISSN 0045-7949, NOV 2011, vol. 89, no. 21-22, SI, p. 1874-1881., WOS

[1.1] MOITA, J.S. - ARAUJO, A.L. - MARTINS, P.G. - SOARES, C.M.M. - SOARES, C.A.M. Analysis of Active-Passive Plate Structures Using a Simple and Efficient Finite Element Model. In MECHANICS OF ADVANCED MATERIALS AND STRUCTURES. ISSN 1537-6494, 2011, vol. 18, no. 2, p. 159-169., WOS

[1.1] NAYAK, Biswajit - DWIVEDY, Santosha K. - MURTHY, K. S. R. K. Vibration analysis of a three-layer magnetorheological elastomer embedded sandwich beam with conductive skins using finite element method. In PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE. ISSN 0954-4062, 2013, vol. 227, no. C4, p. 714-729., WOS

[1.1] OEZER, A. Oezkan - HANSEN, Scott W. EXACT BOUNDARY CONTROLLABILITY RESULTS FOR A MULTILAYER RAO-NAKRA SANDWICH BEAM. In SIAM JOURNAL ON CONTROL AND OPTIMIZATION. ISSN 0363-0129, 2014, vol. 52, no. 2, p. 1314-1337., WOS

[1.1] QIU, Q. - FANG, Z. P. - WAN, H. C. - ZHENG, L. Transfer function method for frequency response and damping effect of multilayer PCLD on cylindrical shell. In 4TH SYMPOSIUM ON THE MECHANICS OF SLENDER STRUCTURES (MOSS2013). ISSN 1742-6588, 2013, vol. 448., WOS

[1.1] RAJAMOHAN, Vasudevan - SUNDARARAMAN, Venkatesh - GOVINDARAJAN, Bharathiraja. Finite Element Vibration Analysis of a Magnetorheological Fluid Sandwich Beam. In INTERNATIONAL CONFERENCE ON DESIGN AND MANUFACTURING (ICONDM2013). ISSN 1877-7058, 2013, vol. 64, p. 603-612., WOS

[1.1] REN, Z. - ZHU, G.M.G. Integrated System ID and Control Design for an IC Engine Variable Valve Timing System. In JOURNAL OF DYNAMIC SYSTEMS MEASUREMENT AND CONTROL-TRANSACTIONS OF THE ASME. ISSN 0022-0434, MAR 2011, vol. 133, no. 2., WOS

[1.1] REN, Z.Y. - ATALLA, N. - GHINET, S. Optimization Based Identification of the Dynamic Properties of Linearly Viscoelastic Materials Using Vibrating Beam Technique. In JOURNAL OF VIBRATION AND ACOUSTICS-TRANSACTIONS OF THE ASME. ISSN 1048-9002, AUG 2011,

vol. 133, no. 4., WOS

[1.1] SAIDI, I. - GAD, E.F. - WILSON, J.L. - HARITOS, N. Development of passive viscoelastic damper to attenuate excessive floor vibrations. In ENGINEERING STRUCTURES. ISSN 0141-0296, DEC 2011, vol. 33, no. 12, p. 3317-3328., WOS

[1.1] SHER, B. R. - MOREIRA, R. A. S. Dimensionless analysis of constrained damping treatments. In COMPOSITE STRUCTURES. ISSN 0263-8223, MAY 2013, vol. 99, p. 241-254., WOS

[1.1] STANESCU, M.M. - BOLCU, D. - CIUCA, I. - BUCULEI, M.E. Study of Some Elastic Properties for Sandwich Bars with Symmetrical Distribution of Layers. In MATERIALE PLASTICE. ISSN 0025-5289, DEC 2011, vol. 48, no. 4, p. 326-331., WOS

[1.1] WANG, P. W. - ZHONG, W. W. - HSU, J. F. Investigation of multi-layer sandwich beams through single degree-of-freedom transformation. In APPLIED ACOUSTICS. ISSN 0003-682X, APR 2013, vol. 74, no. 4, p. 521-525., WOS

[1.1] WANG, P. W. - ZHUANG, D. Q. An Impedance-Based Approach for Rods With Shear-Type Damping Layer Treatment. In JOURNAL OF VIBRATION AND ACOUSTICS-TRANSACTIONS OF THE ASME. ISSN 1048-9002, FEB 2013, vol. 135, no. 1., WOS

[1.1] WON, S. G. - BAE, S. H. - CHO, J. R. - BAE, S. R. - JEONG, W. B. Three-layered damped beam element for forced vibration analysis of symmetric sandwich structures with a viscoelastic core. In FINITE ELEMENTS IN ANALYSIS AND DESIGN. ISSN 0168-874X, JUN 2013, vol. 68, p. 39-51., WOS

[1.1] WON, S.G. - BAE, S.H. - JEONG, W.B. - CHO, J.R. - BAE, S.R. Forced vibration analysis of damped beam structures with composite cross-section using Timoshenko beam element. In STRUCTURAL ENGINEERING AND MECHANICS. ISSN 1225-4568, JUL 10 2012, vol. 43, no. 1, p. 15-30., WOS

[1.1] XU, Menghui - QIU, Zhiping. Free vibration analysis and optimization of composite lattice truss core sandwich beams with interval parameters. In COMPOSITE STRUCTURES. ISSN 0263-8223, DEC 2013, vol. 106, p. 85-95., WOS

[1.1] YEH, Jia-Yi. Vibration analysis of sandwich rectangular plates with magnetorheological elastomer damping treatment. In SMART MATERIALS AND STRUCTURES. ISSN 0964-1726, MAR 2013, vol. 22, no. 3., WOS

[1.1] YEH, J.Y. Free vibration analysis of rotating polar orthotropic annular plate with ER damping treatment. In COMPOSITES PART B-ENGINEERING. ISSN 1359-8368, JUN 2011, vol. 42, no. 4, p. 781-788., WOS

[1.1] YEH, J.Y. Vibration and damping analysis of orthotropic cylindrical shells with electrorheological core layer. In AEROSPACE SCIENCE AND TECHNOLOGY. ISSN 1270-9638, JUN 2011, vol. 15, no. 4, p. 293-303., WOS

[1.1] ZHENG, L. - XIE, R.L. - WANG, Y. - EL-SABBAGH, A. Topology optimization of constrained layer damping on plates using Method of Moving Asymptote (MMA) approach. In SHOCK AND VIBRATION. ISSN 1070-9622, 2011, vol. 18, no. 1-2, p. 221-244., WOS

[1.1] ZHENG, Weiguang - LEI, Yingfeng - LI, Shande - HUANG, Qibai. Topology optimization of passive constrained layer damping with partial coverage on plate. In SHOCK AND VIBRATION. ISSN 1070-9622, 2013, vol.

20, no. 2, p. 199-211., WOS

- [1.2] ALLAHVERDIZADEH, Akbar - MAHJOOB, Mohammad J. - NASROLLAHZADEH, Naser - ESHRAGHI, Iman. Optimal parameters estimation and vibration control of a viscoelastic adaptive sandwich beam incorporating an electrorheological fluid layer. In JVC/Journal of Vibration and Control. ISSN 10775463, 2014-01-01, 20, 12, pp. 1855-1868., SCOPUS
- [1.2] BAE, S. H. - CHO, J. R. - CHO, J. R. - JEONG, W. B. Time-duration extended Hilbert transform superposition for the reliable time domain analysis of five-layered damped sandwich beams. In Finite Elements in Analysis and Design. ISSN 0168874X, 2014-11-01, 90, pp. 41-49., SCOPUS
- [1.2] BORGES, F. - ROITMAN, N. - MAGLUTA, C. - CASTELLO, D.A. - FRANCISS, R. Vibration reduction in steel Catenary riser. In Proceedings of the International Offshore and Polar Engineering Conference, 2012, pp. 544-550., SCOPUS
- [1.2] DODDAMANI, M.R. - KULKARNI, S.M. Instrumented ballistic performance of jute/epoxy sandwich with functionally graded rubber core. In International Journal of Materials Engineering Innovation, 2012, 3, 2, pp. 117-138., SCOPUS
- [1.2] EL-SABBAGH, Adel - BAZ, A. Topology optimization of unconstrained damping treatments for plates. In Engineering Optimization. ISSN 0305215X, 2014-09-02, 46, 9, pp. 1153-1168., SCOPUS
- [1.2] FANG, Zhanpeng - ZHENG, Ling. Topology optimization approach of constrained layer damping layout using level set method. In 21st International Congress on Sound and Vibration 2014, ICSV 2014, 2014-01-01, 3, pp. 1903-1910., SCOPUS
- [1.2] GREWAL, J.S. - SEDAGHATI, R. - ESMAILZADEH, E. Vibration analysis and optimization of sandwiched beam structure using higher order variation of core layer displacement. In Proceedings of the ASME Design Engineering Technical Conference, 2012, 1, pARTS A AND B, pp. 903-910., SCOPUS
- [1.2] GUPTA, Sayantan Datta - RAJAMOHAN, Vasudevan. Segment optimization of a rotating multilayer sandwich beam. In Journal of Sandwich Structures and Materials. ISSN 10996362, 2014-03-01, 16, 2, pp. 148-172., SCOPUS
- [1.2] CHEN, G. - WANG, W. - KARIM, K.R. - HUANG, X. Dynamic response reduction of cantilevered columns by anchored constrained viscoelastic layer treatments. In Journal of Engineering Mechanics. ISSN 0733-9399, 2011, vol. 138, no. 1, p. 12-21., SCOPUS
- [1.2] CHEN, G.D. - KARIM, K.R. Anchored damping treatment for vibration suppression. In 20th Analysis and Computation Specialty Conference Proceedings of the Conference, 2012, pp. 49-58., SCOPUS
- [1.2] CHEN, Wenjong - LIU, Shutian. Topology optimization of microstructures of viscoelastic damping materials for a prescribed shear modulus. In Structural and Multidisciplinary Optimization. ISSN 1615147X, 2014-01-01, 50, 2, pp. 287-296., SCOPUS
- [1.2] LI, D. - LU, Q. Optimal design for partial constrained layer damping. In Qinghua Daxue Xuebao/Journal of Tsinghua University. ISSN 1000-0054, 2011, vol. 51, no. 12, p. 1877-1881., SCOPUS
- [1.2] LI, Jinqiang - NARITA, Yoshihiro. The effect of aspect ratios and edge conditions on the optimal damping design of thin soft core sandwich plates and

- beams. In JVC/Journal of Vibration and Control. ISSN 10775463, 2014-02-01, 20, 2, pp. 266-279., SCOPUS
- [1.2] LI, Z. - HUANG, X. - YUE, X. Sound analysis of forced vibration feature of discontinuous structure in semi-rigid base asphalt pavement. In Dongnan Daxue Xuebao (Ziran Kexue Ban)/Journal of Southeast University (Natural Science Edition). ISSN 10010-50541, 2011, vol. 41, no. 6, p. 1277-1282., SCOPUS
- [1.2] LÓPEZ-AENLLE, M. - PELAYO, F. Dynamic effective thickness in laminated-glass beams and plates. In Composites Part B: Engineering. ISSN 13598368, 2014-01-01, 67, pp. 332-347., SCOPUS
- [1.2] MOHAMMADI, F. - SEDAGHATI, R. Linear and nonlinear vibration analysis of sandwich cylindrical shell with constrained viscoelastic core layer. In International Journal of Mechanical Sciences, 2012, 54, 1, pp. 156-171., SCOPUS
- [1.2] MOITA, J.S. - ARAÚJO, A.L. - MOTA SOARES, C.M. - MOTA SOARES, C.A. Finite element model for damping optimization of viscoelastic sandwich plate structures. In Proceedings of the 13th International Conference on Civil, Structural and Environmental Engineering Computing. ISBN 978-190508845-4, 2011, 14p., SCOPUS
- [1.2] NAYAK, B. - NAYAK, B. - DWIVEDY, S. K. - MURTHY, K. S R K. Dynamic stability of a rotating sandwich beam with magnetorheological elastomer core. In European Journal of Mechanics, A/Solids. ISSN 09977538, 2014-01-01, 47, pp. 143-145., SCOPUS
- [1.2] ÖZKAN ÖZER, A. - HANSEN, Scott W. Exact boundary controllability results for a multilayer Rao-Nakra sandwich beam. In SIAM Journal on Control and Optimization. ISSN 03630129, 2014-01-01, 52, 2, pp. 1314-1337., SCOPUS
- [1.2] PANG, Fu Zhen - SONG, Hong Bao - MIAO, Xu Hong. Research on vibration and sound radiation characteristics of ship stiffened composite plate structure. In INTERNOISE 2014 43rd International Congress on Noise Control Engineering: Improving the World Through Noise Control, 2014-01-01, pp., SCOPUS
- [1.2] ROMASZKO, Mateusz - SNAMINA, Jacek - PAKUŁA, Sebastian. Composite beam's parameters identification based on frequency response. In Proceedings of the 2014 15th International Carpathian Control Conference, ICC 2014, 2014-01-01, pp. 485-490., SCOPUS
- [1.2] SASIKUMAR, K.S.K. - SELVAKUMAR, S. - ARULSHRI, K.P. An analysis of the effect of constraining layer modulus on the vibration control of beams treated with PCLD. In European Journal of Scientific Research. ISSN 1450-216X, 2011, vol. 66, no. 3, p. 377-391., SCOPUS
- [1.2] WANG, M. - LI, Q. Dynamic performance optimization of cylindrical shell with constrained damping layer using topology. In Advanced Materials Research, 2012, 479-481, pp. 1209-1215., SCOPUS
- [1.2] WANG, M., CHEN, G. Dynamics performance optimization of cylindrical shell with constrained damping layer using homogenization approach. In Zhongguo Jixie Gongcheng/China Mechanical Engineering. ISSN 1004-132X, 2011, vol. 22 no. 8, p. 892-896+897., SCOPUS
- [1.2] YING, Z. G. - NI, Y. Q. - YE, S. Q. Stochastic micro-vibration suppression of a sandwich plate using a magneto-rheological visco-elastomer core. In Smart Materials and Structures. ISSN 09641726, 2014-02-01, 23, 2, pp.,

## SCOPUS

- [1.2] ZHENG, Ling - QIU, Quan - WAN, Haochuan - ZHANG, Dongdong. Damping analysis of multilayer passive constrained layer damping on cylindrical shell using transfer function method. In *Journal of Vibration and Acoustics, Transactions of the ASME*. ISSN 10489002, 2014-01-01, 136, 3, pp., SCOPUS
- [1.2] ZHOU, X. Q. - YU, D. Y. - SHAO, X. Y. - WANG, S. - TIAN, Y. H. Asymptotic analysis on flexural dynamic characteristics for a sandwich plate with periodically perforated viscoelastic damping material core. In *Composite Structures*. ISSN 02638223, 2014-12-01, 119, pp. 487-504., SCOPUS
- [1.2] ZOUAGHI, A. - CHAFRA, M. - CHEVALIER, Y. Modeling of composite multilayer rubber-steel: Vibro-acoustic insulation of vehicle brake system. In *Mechanics and Industry*, 2012, 13, 3, pp. 185-195., SCOPUS

ADCA107 MIKULA, Marian - GRANČIČ, B. - BURŠÍKOVÁ, Vilma - CSUBA, Adrian - DRŽÍK, Milan - KAVECKÝ, Štefan - PLECENIK, Andrej - KÚŠ, P. Mechanical properties of superhard TiB<sub>2</sub> coatings prepared by DC magnetron sputtering. In *Vacuum*, 2008, vol. 82, p. 278-281. (2008 - Current Contents). ISSN 0042-207X.

Ohlasy:

- [1.1] BARAN, O. - BIDEV, F. - CICEK, H. - KARA, L. - EFEUGLU, I. - KUCUKOMEROGLU, T. Investigation of the friction and wear properties of Ti/TiB<sub>2</sub>/MoS<sub>2</sub> graded-composite coatings deposited by CFUBMS under air and vacuum conditions. In *SURFACE & COATINGS TECHNOLOGY*. ISSN 0257-8972, DEC 15 2014, vol. 260, p. 310-315., WOS
- [1.1] KIRYUKHANTSEV-KORNEEV, P.V. - TRUKHANOV, P.A. - BONDAREV, A.V. - SHVYNDINA, N.V. - LEVASHOV, E.A. Structure and properties of tribological coatings in Cu-B system. In *PHYSICS OF METALS AND METALLOGRAPHY*. ISSN 0031-918X, JUL 2014, vol. 115, no. 7, p. 716-722., WOS
- [1.1] KOHOUT, J. - VLCEK, J. - HOUSKA, J. - MARES, P. - CERSTVY, R. - ZEMAN, P. - ZHANG, M.H. - JIANG, J.C. - MELETIS, E.I. - ZUZJAKOVA, S. Hard multifunctional Hf-B-Si-C films prepared by pulsed magnetron sputtering. In *SURFACE & COATINGS TECHNOLOGY*. ISSN 0257-8972, OCT 25 2014, vol. 257, p. 301-307., WOS
- [1.1] MARTINHO, R.P. - SILVA, F.J.G. - ALEXANDRE, R.J.D. - BAPTISTA, A.P.M. TiB<sub>2</sub> Nanostructured Coating for GFRP Injection Moulds. In *JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY*. ISSN 1533-4880, JUN 2011, vol. 11, no. 6, p. 5374-5382., WOS
- [1.1] SILVA, F.J.G. - CASAIS, R.C.B. - MARTINHO, R.P. - BAPTISTA, A.P.M. Mechanical and Tribological Characterization of TiB<sub>2</sub> Thin Films. In *JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY*. ISSN 1533-4880, DEC 2012, vol. 12, no. 12, p. 9187-9194., WOS
- [1.1] XIN, X.L. - XU, X.J. - FAN, Z. - TIAN, K. - CHEN, D. - YU, C.H. - SHENG, X.L. Effect of Carbon-doping on Microstructure and Friction/Wear Behaviors of TiB<sub>2</sub> Films. In *FUNCTIONAL AND ELECTRONIC MATERIALS*. ISSN 0255-5476, 2011, vol. 687, p. 621-624., WOS
- [1.2] BIDEV, F. - BARAN, Ö. - ARSLAN, E. - TOTIK, Y. - EFEUGLU, I. Adhesion and fatigue properties of Ti/TiB<sub>2</sub>/MoS<sub>2</sub> graded-composite coatings deposited by closed-field unbalanced magnetron sputtering. In *Surface and Coatings Technology*, 2013, 215, pp. 266-271., SCOPUS
- [1.2] GU, Wen Cui - GU, Wen Cui - LI, Shou De - LI, Shou De - WANG,

Huai Yong - CHEN, Chun Li - LI, Peng - HUANG, Feng. Influence of bias voltage on microstructure and properties of magnetron sputtering TiB<sub>2</sub> coating. In *Hangkong Cailiao Xuebao/Journal of Aeronautical Materials*. ISSN 10055053, 2014-01-01, 34, 5, pp. 37-42., SCOPUS

[1.2] NAKAMOTO, T. - KIMURA, S. - MORITA, Y. Development of titanium boride grinding wheel by laser sintering (Analysis of sintered layer and grinding characteristics). In *Nihon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C*, 2013, 79, 797, pp. 123-132., SCOPUS

[1.2] Neto, V.F. - Santos, J.A. - Alberto, N.J. - Pinto, J.L. - Nogueira, R.N. - Grácio, J. Evaluation of diamond coatings on optical fibre sensors for biological use. In *Journal of Nanoscience and Nanotechnology*. ISSN 1533-4880, 2011, vol. 11, no. 6, pp. 5408-5412., SCOPUS

[1.2] Sanchez, C.M.T. - Plata, B.R. - da Costa, M.E.H.M. - Freire, F.L. Titanium diboride thin films produced by dc-magnetron sputtering: Structural and mechanical properties. In *Surface and Coatings Technology*. ISSN 0257-8972, 2011, vol. 205, no. 12, pp. 3698-3702., SCOPUS

[1.2] SHOVKOPLYAS, O. A. - SOBOL, O. V. Influence of thermal and radiation effects on the phase composition, structure and stress-strain state of Ti-W-B system coatings deposited from ion-atomic fluxes. In *Journal of Nano- and Electronic Physics*. ISSN 20776772, 2014-01-01, 6, 2, pp., SCOPUS

[1.2] XIA, M. - DING, H. - ZHOU, G. - ZHANG, Y. - ZHUANG, G. Effects of power on microstructure and hardness of sputtered TiB<sub>2</sub> films. In *Advanced Materials Research*, 2013, 647, pp. 697-700., SCOPUS

[1.2] XIA, M.-J. - DING, H.-Y. - ZHOU, G.-H. - ZHANG, Y. Improvement of adhesion properties of TiB<sub>2</sub> films on 316L stainless steel by Ti interlayer films. In *Transactions of Nonferrous Metals Society of China (English Edition)*, 2013, 23, 10, pp. 2957-2961., SCOPUS

[1.2] XIN, X. - XU, X. - FAN, Z. - TIAN, K. - CHEN, D. - YU, C. - SHENG, X. Surface modification of Cr12MoV steel by depositing C-doped TiB<sub>2</sub> films. In *Zhenkong Kexue yu Jishu Xuebao/Journal of Vacuum Science and Technology*, vol. 32, no. 1, p. 15-18., SCOPUS

[1.2] XU, X.J. - SHENG, X.L. - ZHANG, T.F. - LIU, M. - XIN, X.L. Raman spectrum and friction behaviors of carbon-doped TiB<sub>2</sub> films prepared by magnetron sputtering. In *Cailiao Gongcheng/Journal of Materials Engineering*, 2012, no.8, p. 30-32+38., SCOPUS

ADCA108 MIKULA, Marian - GRANČIČ, B. - ROCH, T. - PLECENIK, T. - VÁVRA, Ivo - DOBROČKA, Edmund - ŠATKA, A. - BURŠÍKOVÁ, Vilma - DRŽÍK, Milan - ZAHORAN, M. - PLECENIK, Andrej - KÚŠ, P. The influence of low-energy ion bombardment on the microstructure development and mechanical properties of TiB<sub>x</sub> coatings. In *Vacuum*, 2011, vol.85, no.9, p.866-870. (1.048 - IF2010). (2011 - Current Contents). ISSN 0042-207X.

Ohlasy:

[1.1] ERIKSSON, A.O. - TENGSTRAND, O. - LU, J. - JENSEN, J. - EKLUND, P. - ROSEN, J. - PETROV, I. - GREENE, J.E. - HULTMAN, L. Si incorporation in Ti<sub>1-x</sub>Si<sub>x</sub>N films grown on TiN(001) and (001)-faceted TiN(111) columns. In *SURFACE & COATINGS TECHNOLOGY*. ISSN 0257-8972, OCT 25 2014, vol. 257, p. 121-128., WOS

[1.1] ZHANG, T.F. - GAN, B. - PARK, S.M. - WANG, Q.M. - KIM, K.H.



Influence of negative bias voltage and deposition temperature on microstructure and properties of superhard TiB<sub>2</sub> coatings deposited by high power impulse magnetron sputtering. In *SURFACE & COATINGS TECHNOLOGY*. ISSN 0257-8972, AUG 25 2014, vol. 253, p. 115-122., WOS

ADCA109 MOSER, Zbigniew - ŠEBO, Pavol - GAŚIOR, Władisław - ŠVEC, Peter - PSTRUŚ, Janusz. Effect of indium on wettability of Sn-Ag-Cu solders. Experiment vs. modeling. In *CALPHAD: Computer Coupling of Phase Diagrams and Thermochemistry*, 2009, vol.33, no.1, pp.63-68. (1.530 - IF2008). ISSN 0364-5916.

Ohlasy:

[1.1] ALCHAGIROV, B.B. - DADASHEV, R.K. - DYSHEKOVA, F.F. - ELIMKHANOV, D.Z. The surface tension of indium: Methods and results of investigations. In *HIGH TEMPERATURE*. ISSN 0018-151X, NOV 2014, vol. 52, no. 6, p. 920-938., WOS

[1.1] YU, A.M. - KIM, M.S. - LEE, C.W. - LEE, J.H. Wetting and interfacial reaction characteristics of Sn-1.2Ag-0.5Cu-xIn quaternary solder alloys. In *METALS AND MATERIALS INTERNATIONAL*. ISSN 1598-9623, JUN 2011, vol. 17, no. 3, p. 521-526., WOS

[1.2] CHEN, Jianxun - ZHAO, Xingke - LIU, Dayong - HUANG, Jihua - ZOU, Xuchen. Research development of SnAgCu system lead-free solders in electronics packing. In *Cailiao Gongcheng/Journal of Materials Engineering*. ISSN 10014381, 2013-09-01, 9, pp. 91-98., SCOPUS

ADCA110 MÚČKA, Peter - GRANLUND, Johan. Comparison of longitudinal unevenness of old and repaired highway lanes. In *Journal of Transportation Engineering ASCE*, 2012, vol.138, no.3, p.371-380. (0.620 - IF2011). (2012 - Current Contents, SCOPUS, WOS). ISSN 0733-947X.

Ohlasy:

[3] TAUGIR, Usaaman. Developing Traffic Data Collection Software with Multi-Touch Technology. In 2011-2012 OHIO SPACE GRANT CONSORTIUM ANNUAL STUDENT RESEARCH SYMPOSIUM PROCEEDINGS XX, Ohio Aerospace Institute, Cleveland, Ohio, April 20, 2012, pp. 304-309.

ADCA111 MÚČKA, Peter. Correlation among Road Unevenness Indicators and Vehicle Vibration Response. In *Journal of Transportation Engineering ASCE*, 2013, vol.139, p.771-786. (0.863 - IF2012). (2013 - Current Contents, SCOPUS, WOS). ISSN 0733-947X.

Ohlasy:

[3] BULEVIČIUS, Matas. Influence of the properties of flexible road pavement structure on the service indices of wearing courses. [in Lithuanian]. [PhD Thesis]. ISBN 978-609-457-582-2, Vilnius Gediminas Technical University, Vilnius, Lithuania, 2013, 143 p.

ADCA112 MÚČKA, Peter. Influence of road profile obstacles on road unevenness indicators. In *Road Materials and Pavement Design*, 2013, vol.14, no.3, pp.689-702. (0.642 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 1468-0629.

Ohlasy:

[3] BULEVIČIUS, Matas. Influence of the properties of flexible road pavement structure on the service indices of wearing courses. [in Lithuanian]. [PhD Thesis]. ISBN 978-609-457-582-2, Vilnius Gediminas Technical

University, Vilnius, Lithuania, 2013, 143 p.

[3.1] KHAVASSEFAT, Parisa. Vehicle-Pavement Interaction. [PhD Thesis]. KTH Royal Institute of Technology, Department of Transport Science, Stockholm, Sweden, 2014. ISBN 978-91-87353-57-4. Dostupné na internete: <http://kth.diva-portal.org/smash/get/diva2:764220/FULLTEXT01.pdf>

ADCA113 MÚČKA, Peter - GRANLUND, J. Is the Road Quality Still Better? In *Journal of Transportation Engineering*, 2012, vol.138, no.12, p.1520-1529. (0.620 - IF2011). (2012 - Current Contents, WOS). ISSN 0733-947X.

Ohlasy:

[1.1] VAIANA, R. - PRATICO, F. G. Pavement surface properties and their impact on performance-related pay adjustments. In SUSTAINABILITY, ECO-EFFICIENCY AND CONSERVATION IN TRANSPORTATION INFRASTRUCTURE ASSET MANAGEMENT. 2014, p. 579-587., WOS

[1.2] LOPRENCIPE, Giuseppe - CANTISANI, Giuseppe. Unified analysis of road pavement profiles for evaluation of surface characteristics. In *Modern Applied Science*. ISSN 19131844, 2013-08-21, 7, 8, pp. 1-14., SCOPUS

ADCA114 MÚČKA, Peter. Longitudinal road profile spectrum approximation by split straight lines. In *Journal of Transportation Engineering*, 2012, vol. 138, no. 2, p. 243-251. (0.620 - IF2011). (2012 - Current Contents, WOS). ISSN 0733-947X.

Ohlasy:

[1.1] SANTAGATA, E. - SCIAMANNA, S. Development of a new response-type road roughness measuring system. In SUSTAINABILITY, ECO-EFFICIENCY AND CONSERVATION IN TRANSPORTATION INFRASTRUCTURE ASSET MANAGEMENT. 2014, p. 711-718., WOS

[1.1] ŽURAULIS, Vidas - LEVULYTE, Loreta - SOKOLOVSKIJ, Edgar. The impact of road roughness on the duration of contact between a vehicle wheel and road surface. In *TRANSPORT*. ISSN 1648-4142, 2014, vol. 29, no. 4, pp. 431-439., WOS

[3.1] ROMAN, Lucian – FLOREA, Adrian – COFARU, Ileana Ioana. Software application for assessment the reliability of suspension system at OPEL cars and of road profiles. In *ANNALS OF THE ORADEA UNIVERSITY, FASCICLE OF MANAGEMENT AND TECHNOLOGICAL ENGINEERING*. ISSN 1583-0691, 2014, Vol. 23, No. 1, pp. 289–294. Dostupné na internete: <http://www.imtuoradea.ro/auo.fmte>

ADCA115 MÚČKA, Peter. Relationship between International Roughness Index and Straightedge Index. In *Journal of Transportation Engineering*, 2012, vol.138, iss.9, p.1099-1112. (0.620 - IF2011). (2012 - Current Contents, WOS). ISSN 0733-947X.

Ohlasy:

[1.2] ŽURAULIS, Vidas - LEVULYTE, Loreta - SOKOLOVSKIJ, Edgar. The impact of road roughness on the duration of contact between a vehicle wheel and road surface. In *Transport*. ISSN 16484142, 2014-01-01, 29, 4, pp. 431-439., SCOPUS

[3] BULEVIČIUS, Matas. Influence of the properties of flexible road pavement structure on the service indices of wearing courses. [in Lithuanian]. [PhD Thesis]. ISBN 978-609-457-582-2, Vilnius Gediminas Technical University, Vilnius, Lithuania, 2013, 143 p.

[3.1] GANDHEWAR, Piyush – SONKUSARE, Hemantkumar G. Runway

Excursion: A Problem. In IOSR JOURNAL OF MECHANICAL AND CIVIL ENGINEERING. ISSN 2320-334X, 2014, Vol. 11, No. 3, pp. 75-78. Dostupné na internete:  
<http://www.iosrjournals.org/iosr-jmce/papers/vol11-issue3/Version-2/K011327578.pdf>

ADCA116 MÚČKA, Peter. Road waviness and the dynamic tyre force. In *International Journal of Vehicle Design*. - Geneve : International association for vehicle design, 2004, vol. 36, nos. 2/3, p.216-232. ISSN 0143-3369.

Ohlasy:

[1.1] BOGSJO, Klas - PODGORSKI, Krzysztof - RYCHLIK, Igor. Models for road surface roughness. In VEHICLE SYSTEM DYNAMICS. ISSN 0042-3114, 2012, vol. 50, no. 5, p. 725-747., WOS

[1.1] FENG, J. - ZHANG, X.J. - GUO, K.H. - MA, F.W. - KARIMI, H.R. A Frequency Compensation Algorithm of Four-Wheel Coherence Random Road. In MATHEMATICAL PROBLEMS IN ENGINEERING. ISSN 1024-123X, 2013., WOS

[1.1] KOZUBOWSKI, T.J. - PODGORSKI, K. - RYCHLIK, I. Multivariate generalized Laplace distribution and related random fields. In JOURNAL OF MULTIVARIATE ANALYSIS. ISSN 0047-259X, JAN 2013, vol. 113, SI, p. 59-72., WOS

[1.1] WANG, Q. - MCDANIEL, J.G. - SUN, N.X. - WANG, M.L. Road profile estimation of city roads using DTPS. In SENSORS AND SMART STRUCTURES TECHNOLOGIES FOR CIVIL, MECHANICAL, AND AEROSPACE SYSTEMS 2013. ISSN 0277-786X, 2013, vol. 8692., WOS

[3] AINALIS, D. T. – ROUILLARD, V. – SEK, M. A. Evaluation of experimental techniques for establishing vehicle suspension characteristics [online]. In PROCEEDINGS: THE 7TH AUSTRALASIAN CONGRESS ON APPLIED MECHANICS (ACAM 7), 9-12 December 2012, University of Adelaide, North Terrace Campus / National Committee on Applied Mechanics of Engineers Australia. [Barton ACT], Engineers Australia, 2012, pp. 788-799. ISBN 9781922107619.

[3] ZHAO, X. Modeling and simulation of cultivator load signals with a fatigue damage perspective. [Master's Thesis], Department of Mathematical Science, Division of Mathematical Statistics, Chalmers University of Technology, Goteborg, Sweden, 2011.

ADCA117 MÚČKA, Peter - KROPÁČ, Oldřich. Sensitivity of road unevenness indicators to road waviness. In *Journal of Testing and Evaluation*, 2009, vol.37, no.2, p.139-149. (0.324 - IF2008). ISSN 0090-3973.

Ohlasy:

[3.1] KISIŁOWSKI, J. – ZALEWSKI, J. Wybrane problemy bezpieczeństwa w ruchu drogowym. [in Polish]. In Logistyka, 2014, Vol. 17, Nr. 3, pp. 2952-2970. ISSN 1231-5478. Dostupné na internete:  
<http://www.czasopismologistyka.pl/artykuly-naukowe/send/298-artykuly-na-plycie-cd-1/4116-artykul>

ADCA118 MÚČKA, Peter - KROPÁČ, Oldřich. Simulation of Obstacles in a Longitudinal Road Profile Based on the Weibull Distribution. In *Journal of Testing*

and Evaluation, 2011, vol.39, no.3, p.335-345. (0.409 - IF2010). (2011 - Current Contents). ISSN 0090-3973.

Ohlasy:

[1.2] PENG, Ting - WANG, Xiaoling - CHEN, Shuanfa. Pavement performance prediction model based on Weibull distribution. In *Applied Mechanics and Materials*. ISSN 16609336, 2013-10-22, 378, pp. 61-64., SCOPUS

[3] KAWALE, Sujay J. Implication of Terrain Topology Modelling on Ground Vehicle Reliability [Master's Thesis], Virginia Polytechnic Institute and State University, VI, USA, 2011, 97 p.

ADCA119 MURIN, Jozef. Some properties of a diesel drive line with hydrodynamic torque converters of the latest generation. In *Mechanism and Machine Theory*. - Oxford : Elsevier, 2005, vol. 40, p.99-117. ISSN 0094-114X.

Ohlasy:

[1.1] AN, Xiao-ning. Research on Structure Design Parameters' Similarity for Loading Machine. In *FRONTIERS OF MECHANICAL ENGINEERING AND MATERIALS ENGINEERING, PTS 1 AND 2*. ISSN 1660-9336, 2012, vol. 184-185, p. 440-444., WOS

[1.1] XU, L.C. - GE, R.H. Development and Application of Engineering Vehicle Transmission Load Test System. In *VIBRATION, STRUCTURAL ENGINEERING AND MEASUREMENT I, PTS 1-3*. ISSN 1660-9336, 2012, vol. 105-107, 1-3, p. 2019-2023., WOS

[1.2] DENG, Z.X. - LI, X.Q. - LUO, H. - SUN, X.L. - ZHU, J.H. Improvement of circulatory circle design method for automobile hydraulic torque converters. In *Chongqing Daxue Xuebao/Journal of Chongqing University*. ISSN 1000-582X, 2011, vol. 34, no. 5, p. 26-30., SCOPUS

[1.2] CHANG, L. Optimization of power matching on torque converter with diesel engine for wheel loader based on performance evaluation mesh figure. In *Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering*, 2012, 28, 1, pp. 50-54., SCOPUS

[1.2] SCHAEF, Thomas - MARQUIS-FAVRE, Wilfrid - BIDEAUX, Eric - NOPPE, Eric - RODOT, Pierre - BERNIGAUD, Jean Christophe - LANGLOIS, Vincent. Bond graph modelling and energy flow analysis of a reach stacker. In *8th FPNI Ph.D Symposium on Fluid Power, FPNI 2014*, 2014-01-01, pp., SCOPUS

[1.2] YAN, Qingdong - LIU, Shucheng - WEI, Wei - YANG, Huibin. Evaluation for matching between hydrodynamic torque converter and engine based on improved radar chart method. In *Jilin Daxue Xuebao (Gongxueban)/Journal of Jilin University (Engineering and Technology Edition)*. ISSN 16715497, 2013-11-01, 43, 6, pp. 1510-1516., SCOPUS

[1.2] ZHAO, Xin Xin - ZHANG, Wen Ming - FENG, Ya Li - YANG, Yao Dong. Powerful shifting strategy and multi-parameters considered for heavy-duty mining truck. In *Dongbei Daxue Xuebao/Journal of Northeastern University*. ISSN 10053026, 2014-01-01, 35, 1, pp. 101-106., SCOPUS

ADCA120 NOSKO, Martin - SIMANČÍK, František - FLOREK, Roman. Reproducibility of aluminum foam properties: Effect of precursor distribution on the structural anisotropy and the collapse stress and its dispersion. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*,

2010, vol.527, p.5900-5908. (1.901 - IF2009). (2010 - Current Contents). ISSN 0921-5093.

Ohlasy:

[1.1] ASAVAVISITHCHAI, Seksak - TREPETCH, Supasiri - SUTISAKOMON, Chonlatid. Aluminum Foam Structures and Compressive Properties Produced from Multiple and Differently Arranged Precursors. In MATERIALS TESTING. ISSN 0025-5300, 2014, vol. 56, no. 11-12, p. 958-961., WOS

[1.1] DUARTE, I. - OLIVEIRA, M. - GARCIA-MORENO, F. - MUKHERJEE, M. - BANHART, J. Foaming of AA 6061 using multiple pieces of foamable precursor. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, DEC 5 2013, vol. 438, SI, p. 47-55., WOS

[1.1] HARTMANN, Johannes - BLUEMEL, Christina - ERNST, Stefan - FIEGL, Tobias - WIRTH, Karl-Ernst - KOERNER, Carolin. Aluminum integral foam castings with microcellular cores by nano-functionalization. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, JAN 2014, vol. 49, no. 1, p. 79-87., WOS

[1.1] HARTMANN, J. - TREPPER, A. - KOERNER, C. Aluminum Integral Foams with Near-Microcellular Structure. In ADVANCED ENGINEERING MATERIALS. ISSN 1438-1656, NOV 2011 2011, vol. 13, no. 11, SI, p. 1050-1055., WOS

[1.1] LAZARO, J. - LAGUNA-GUTIERREZ, E. - SOLORZANO, E. - RODRIGUEZ-PEREZ, M.A. Effect of Microstructural Anisotropy of PM Precursors on the Characteristic Expansion of Aluminum Foams. In METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE. ISSN 1073-5615, AUG 2013, vol. 44, no. 4, p. 984-991., WOS

[1.1] LAZARO, J. - SOLORZANO, E. - DE SAJA, J.A. - RODRIGUEZ-PEREZ, M.A. Early anisotropic expansion of aluminium foam precursors. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, JUL 2013, vol. 48, no. 14, p. 5036-5046., WOS

[1.1] PAULIN, I. - SUSTARSIC, B. - KEVORKIJAN, V. - SKAPIN, S.D. - JENKO, M. SYNTHESIS OF ALUMINIUM FOAMS BY THE POWDER METALLURGY PROCESS: COMPACTING OF PRECURSORS. In MATERIALI IN TEHNOLOGIJE. ISSN 1580-2949, JAN-FEB 2011 2011, vol. 45, no. 1, p. 13-19., WOS

[1.1] PROA-FLORES, P.M. - MENDOZA-SUAREZ, G. - DREW, R.A.L. Effect of TiH<sub>2</sub> particle size distribution on aluminum foaming using the powder metallurgy method. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, JAN 2012 2012, vol. 47, no. 1, p. 455-464., WOS

[1.2] Del Val, J. - Riveiro, A. - Comesaña, R. - Lusquiños, F. - Boutinguiza, M. - Quintero, F. - Pou, J. Production of aluminum foams by laser cladding. In 30th International Congress on Applications of Lasers and Electro-Optics, ICALEO 2011, 2011, pp. 1287-1293., SCOPUS

[1.2] DEL VAL, J. - RIVEIRO, A. - COMESAÑA, R. - LUSQUIÑOS, F. - BOUNTINGUIZA, M. - QUINTERO, F. - POU, J. Laser-assisted manufacturing of porous metallic structures. In ICALEO 2012 31st International Congress on Applications of Lasers and Electro-Optics, 2012, pp. 1216-1222., SCOPUS

[1.2] GOODAL, Russell - MORTENSEN, Andreas. Porous Metals (Book

Chapter). In: PHYSICAL METALLURGY: Fifth Edition. ISBN: 978-0-444-53770-6, 2014, VOL. III, pp. 2399-2595., SCOPUS

ADCA121 NOSKO, Martin - SIMANČÍK, František - IŽDINSKÝ, Karol - ŠVEC, Peter - FLOREK, Roman. Stabilizing intermetallic phases within aluminum foam. In *Materials Letters*, 2011, vol.65, p.1378-1380. (2.117 - IF2010). (2011 - Current Contents). ISSN 0167-577X.

Ohlasy:

[1.1] AGUIRRE-PERALES, Lydia Y. - DREW, Robin A. L. - JUNG, In-Ho. The Effect of In Situ Intermetallic Formation on Al-Sn Foaming Behavior. In *METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE*. ISSN 1073-5623, AUG 2014, vol. 45A, no. 9, p. 3714-3727., WOS

[1.1] BANHART, J. Light-Metal Foams - History of Innovation and Technological Challenges. In *ADVANCED ENGINEERING MATERIALS*. ISSN 1438-1656, MAR 2013, vol. 15, no. 3, SI, p. 82-111., WOS

[1.1] ELAHI, S.H. - ABDI, H. - SHAHVERDI, H.R. Investigating viscosity variations of molten aluminum by calcium addition and stirring. In *MATERIALS LETTERS*. ISSN 0167-577X, JAN 15 2013, vol. 91, p. 376-378., WOS

[1.1] HUANG, L. - WANG, H. - YANG, D. H. - YE, F. - WANG, S. Q. - LU, Z. P. Effects of calcium on mechanical properties of cellular Al-Cu foams. In *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING*. ISSN 0921-5093, NOV 17 2014, vol. 618, p. 471-478., WOS

[1.1] XU, Zhengbin - HAO, Hai. Electromagnetic interference shielding effectiveness of aluminum foams with different porosity. In *JOURNAL OF ALLOYS AND COMPOUNDS*. ISSN 0925-8388, DEC 25 2014, vol. 617, p. 207-213., WOS

ADCA122 ORAVSKÝ, Vladimír - MARKUŠ, Štefan - ŠIMKOVÁ, Oľga. A new approximate method of finding the loss factors of a sandwich cantilever. In *Journal of Sound and Vibration*, 1974, vol. 33, no. 3, p. 335-352. ISSN 0022-460 X.

Ohlasy:

[1.1] MOHAMMADI, F. - SEDAGHATI, R. Effects of pressure and temperature on the vibration behavior of sandwich cylindrical shells. In *JOURNAL OF SANDWICH STRUCTURES & MATERIALS*. ISSN 1099-6362, MAR 2012, vol. 14, no. 2, p. 157-180., WOS

[1.1] MOHAMMADI, F. - SEDAGHATI, R. Linear and nonlinear vibration analysis of sandwich cylindrical shell with constrained viscoelastic core layer. In *INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES*. ISSN 0020-7403, JAN 2012, vol. 54, no. 1, p. 156-171., WOS

[1.1] MOITA, J.S. - ARAUJO, A.L. - MARTINS, P.G. - SOARES, C.M.M. - SOARES, C.A.M. Analysis of Active-Passive Plate Structures Using a Simple and Efficient Finite Element Model. In *MECHANICS OF ADVANCED MATERIALS AND STRUCTURES*. ISSN 1537-6494, 2011, vol. 18, no. 2, p. 159-169., WOS

ADCA123 PÁLKA, Viliam - POŠTRKOVÁ, Eva - KOERTEN, H.K. Some characteristics of hydroxylapatite powder particles after plasma spraying. In *Biomaterials*, 1998, roč. 19, č., s. 1763-1772.

Ohlasy:

[1.1] KEHOE, S. - ARDHAOU, M. - STOKES, J. Design of Experiments Study of Hydroxyapatite Synthesis for Orthopaedic Application Using Fractional Factorial Design. In JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE. ISSN 1059-9495, NOV 2011, vol. 20, no. 8, p. 1423-1437., WOS

[1.1] MOHSENI, E. - ZALNEZHAD, E. - BUSHROA, A.R. Comparative investigation on the adhesion of hydroxyapatite coating on Ti-6Al-4V implant: A review paper. In INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES. ISSN 0143-7496, JAN 2014, vol. 48, p. 238-257., WOS

[1.1] OHTSU, N. - HIRANO, M. - ARAI, H. Response of osteoblast-like MC3T3-E1 cells on bioactive titanium fabricated by a chemical treatment process using a calcium-phosphate slurry. In JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A. ISSN 1549-3296, NOV 2014, vol. 102, no. 11, p. 3838-3845., WOS

[1.1] OHTSU, N. - NAKAMURA, Y. - SEMBOSHI, S. Thin hydroxyapatite coating on titanium fabricated by chemical coating process using calcium phosphate slurry. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, JAN 15 2012, vol. 206, no. 8-9, p. 2616-2621., WOS

[1.1] OHTSU, N. - TAKAHARA, T. - HIRANO, M. - ARAI, H. Effect of treatment temperature on the biocompatibility and mechanical strength of hydroxyapatite coating formed on titanium using calcium phosphate slurry. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, JAN 25 2014, vol. 239, p. 185-190., WOS

[1.1] SORENSEN, J.H. - LILJA, M. - SORENSEN, T.C. - ASTRAND, M. - PROCTER, P. - FUCHS, S. - STROMME, M. - STECKEL, H. Biomechanical and antibacterial properties of Tobramycin loaded hydroxyapatite coated fixation pins. In JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS. ISSN 1552-4973, OCT 2014, vol. 102, no. 7, p. 1381-1392., WOS

[1.1] ZHAO, S.F. - DONG, W.J. - JIANG, Q.H. - HE, F.M. - WANG, X.X. - YANG, G.L. Effects of zinc-substituted nano-hydroxyapatite coatings on bone integration with implant surfaces. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, JUN 2013, vol. 14, no. 6, p. 518-525., WOS

[1.1] ZHOU, J.H. - SHAO, J.M. - HAN, Y. Effect of hydrothermal treatment model on stability and bioactivity of microarc oxidized titania coatings. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, JUN 1 2014, vol. 303, p. 367-372., WOS

ADCA124 PAWELEK, A. - RANACHOWSKI, Z. - PIĄTKOWSKI, A. - KÚDELA, Stanislav - JASIEŃSKI, Z. - KÚDELA, Stanislav, Jr.. Acoustic emission and strain mechanisms during compression at elevated temperature of  $\beta$  phase Mg-Li-Al composites reinforced with ceramic fibres = Emisja akustyczna i mechanizmy odkształcenia podczas ściskania w podwyższonej temperaturze kompozytów  $\beta$ -Mg-Li-Al wzmocnionych włóknami ceramicznymi. In *Archives of Metallurgy and Materials*, 2007, vol. 52, no.1, p.41-48.

Ohlasy:

[1.1] POTOCZEK, M. - SLIWA, R.E. MICROSTRUCTURE AND PHYSICAL PROPERTIES OF AlMg/Al<sub>2</sub>O<sub>3</sub> INTERPENETRATING

COMPOSITES FABRICATED BY METAL INFILTRATION INTO CERAMIC FOAMS. In ARCHIVES OF METALLURGY AND MATERIALS. ISSN 1733-3490, 2011, vol. 56, no. 4, p. 1265-1269., WOS

ADCA125 PECOVÁ, R. - JAVORKOVÁ, N. - KUDLIČKA, Ján - TATÁR, M. Tussigenic agents in the measurement of cough reflex sensitivity. In *Journal of Physiology and Pharmacology : formerly Acta Physiologica Polonica*, 2007, vol.58, no.Suppl.5, p.531-538. (2.974 - IF2006). (2007 - Current Contents). ISSN 0867-5910.

Ohlasy:

[1.1] MCALEXANDER, M.A. - TAYLOR-CLARK, T. The Role of Transient Receptor Potential Channels in Respiratory Symptoms and Pathophysiology. In TRANSIENT RECEPTOR POTENTIAL CHANNELS. ISSN 0065-2598, 2011, vol. 704, p. 969-986., WOS

ADCA126 POLETTI, C. - BALOG, Martin - SIMANČÍK, František - DEGISCHER, Hans Peter. High-temperature strength of compacted sub-micrometer aluminium powder. In *Acta Materialia*, 2010, vol.58, p.3781-3789. (3.760 - IF2009). (2010 - Current Contents). ISSN 1359-6454.

Ohlasy:

[1.1] LE, G.M. - GODFREY, A. - HANSEN, N. - LIU, W. - WINTHER, G. - HUANG, X. Influence of grain size in the near-micrometre regime on the deformation microstructure in aluminium. In ACTA MATERIALIA. ISSN 1359-6454, NOV 2013, vol. 61, no. 19, p. 7072-7086., WOS

[1.1] WANG, Wenqin - YAMAGUCHI, Tomiko - NISHIO, Kazumasa. Structure of Iron-Based Cladding Layer on Al-Mg-Si Alloy Coated by a Resistance Seam Welding Method. In MATERIALS TRANSACTIONS. ISSN 1345-9678, 2014, vol. 55, no. 11, p. 1698-1706., WOS

[1.2] Tokarski, T. The effect of plastic consolidation parameters on the microstructure and mechanical properties of various aluminium powders. In Materials Science Forum. ISSN 0255-5476, 2011, vol. 674, pp. 141-146., SCOPUS

ADCA127 POLETTI, C. - BALOG, Martin - SCHUBERT, T. - LIEDTKE, V. - EDTMAIER, C. Production of titanium matrix composites reinforced with SiC particles. In *Composites Science and Technology*, 2008, vol. 68, no.9, p.2171-2177. (2.171 - IF2007). (2008 - Current Contents). ISSN 0266-3538.

Ohlasy:

[1.1] ATTAR, H. - BONISCH, M. - CALIN, M. - ZHANG, L.C. - SCUDINO, S. - ECKERT, J. Selective laser melting of in situ titanium-titanium boride composites: Processing, microstructure and mechanical properties. In ACTA MATERIALIA. ISSN 1359-6454, SEP 1 2014, vol. 76, p. 13-22., WOS

[1.1] GU, D.D. - HAGEDORN, Y.C. - MEINERS, W. - WISSENBAACH, K. - POPRAWA, R. Nanocrystalline TiC reinforced Ti matrix bulk-form nanocomposites by Selective Laser Melting (SLM): Densification, growth mechanism and wear behavior. In COMPOSITES SCIENCE AND TECHNOLOGY. ISSN 0266-3538, SEP 9 2011, vol. 71, no. 13, p. 1612-1620., WOS

[1.1] KARIMI, M. - TOROGHINEJAD, M.R. An alternative method for manufacturing high-strength CP Ti-SiC composites by accumulative roll bonding



process. In MATERIALS & DESIGN. ISSN 0261-3069, JUL 2014, vol. 59, p. 494-501., WOS

[1.1] KRASNOWSKI, M. - DABROWSKI, J.R. Ti-Y2O3 Composites with Nanocrystalline and Microcrystalline Matrix. In METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE. ISSN 1073-5623, APR 2012, vol. 43A, no. 4, p. 1376-1381., WOS

[1.1] LIU, Y.B. - LIU, Y. - TANG, H.P. - WANG, B. - LIU, B. Fabrication and mechanical properties of in situ TiC/Ti metal matrix composites. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, FEB 24 2011, vol. 509, no. 8, p. 3592-3601., WOS

[1.1] LI, J.N. - CHEN, C.Z. - WANG, D.G. Surface modification of titanium alloy with laser cladding RE oxides reinforced Ti3Al-matrix composites. In COMPOSITES PART B-ENGINEERING. ISSN 1359-8368, APR 2012, vol. 43, no. 3, p. 1207-1212., WOS

[1.1] LONG, B.D. - OTHMAN, R. - ZUHAILAWATI, H. - UMEMOTO, M. Comparison of Two Powder Processing Techniques on the Properties of Cu-NbC Composites. In ADVANCES IN MATERIALS SCIENCE AND ENGINEERING. ISSN 1687-8434, 2014., WOS

[1.1] XU, C.H. - YI, D.Q. - WU, C.P. - LIU, H.Q. - LI, W.Z. Microstructures and properties of silver-based contact material fabricated by hot extrusion of internal oxidized Ag-Sn-Sb alloy powders. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, MAR 15 2012, vol. 538, p. 202-209., WOS

[1.1] XU, W. - WU, X.L. - WEI, X.S. - LUI, E.W. - XIA, K.N. NANOSTRUCTURED MULTI-PHASE TITANIUM-BASED PARTICULATE COMPOSITES CONSOLIDATED BY SEVERE PLASTIC DEFORMATION. In INTERNATIONAL JOURNAL OF POWDER METALLURGY. ISSN 0888-7462, WIN 2014, vol. 50, no. 1, p. 49-56., WOS

[1.1] ZHANG, W. - YANG, Y.Q. - ZHAO, G.M. - FENG, Z.Q. - HUANG, B. - LUO, X. - LI, M.H. - CHEN, Y.X. Interfacial reaction studies of B4C-coated and C-coated SiC fiber reinforced Ti-43Al-9V composites. In INTERMETALLICS. ISSN 0966-9795, JUL 2014, vol. 50, p. 14-19., WOS

[1.2] HUANG, L.J. - WANG, S. - GENG, L. - KAVEENDRAN, B. - PENG, H.X. Low volume fraction in situ (Ti5Si3+Ti2C)/Ti hybrid composites with network microstructure fabricated by reaction hot pressing of Ti-SiC system. In Composites Science and Technology, 2013, 82, pp. 23-28., SCOPUS

[1.2] KRISHNAMOHAN, S. - RAMANATHAN, S. - RAMAKRISHNAN, V. Thermo physical property measurement of Ti-6Al-4v alloy and Ti-6Al-4V/Nano SiCp composites. In International Review of Mechanical Engineering. ISSN 19708734, 2014-01-01, 8, 6, pp. 992-996., SCOPUS

[1.2] WEI, S. - ZHANG, Z.-H. - WANG, F.-C. - SHEN, X.-B. - CAI, H.-N. - LEE, S.-K. - WANG, L. Effect of Ti content and sintering temperature on the microstructures and mechanical properties of TiB reinforced titanium composites synthesized by SPS process. In Materials Science and Engineering A, 2013, 560, pp. 249-255., SCOPUS

[1.2] Xiao, D. - Yuan, T. - He, Y. Synthesis and performance of in-situ Ti-B-C-Si composites. In Cailiao Yanjiu Xuebao/Chinese Journal of Materials Researc. ISSN 1005-3093, 2011, vol. 25, no. 4, pp. 413-416., SCOPUS

- [1.2] Yanbin, L. - Yong, L. - Huiping, T. - Bin, W. - Bin, L. Fabrication and mechanical properties of in situ TiC/Ti metal matrix composites. In *Journal of Alloys and Compounds*. ISSN 0925-8388, 2011, vol. 509, no. 8, pp. 3592-3601., SCOPUS
- [1.2] YANG, F. - CAI, Y. - CHEN, Y. - KONG, F. Fabrication of Ti<sub>2</sub>AlC/Ti-44Al-6Nb-0.3Y composite by spark plasma sintering. In *Ti 2011 Proceedings of the 12th World Conference on Titanium*, 2012, 2, pp. 1457-1459., SCOPUS
- [1.2] YANG, X. - GUO, Y. - CHEN, Y. - DAN, L. - WANG, J. Microstructure and mechanical properties of TaC/Ti composite prepared by SPS. In *Xiyou Jinshu Cailiao Yu Gongcheng/Rare Metal Materials and Engineering*, 2013, 42, 11, pp. 2274-2278., SCOPUS

ADCA128 PRITULA, Ondrej - SMRČOK, Ľubomír - IVAN, Jozef - IŽDINSKÝ, Karol. X-Ray quantitative phase analysis of residues of the reference portland clinkers. In *Ceramics-Silikáty*, 2004, vol. 48, no. 1, p. 34-39. (2004 - Current Contents). ISSN 0862-5468.

Ohlasy:

- [1.1] ALVAREZ-PINAZO, G. - CUESTA, A. - GARCIA-MATE, M. - SANTACRUZ, I. - LOSILLA, E. R. - SANFELIX, S. G. - FAUTH, F. - ARANDA, M. A. G. - DE LA TORRE, A. G. In-situ early-age hydration study of sulfobelite cements by synchrotron powder diffraction. In *CEMENT AND CONCRETE RESEARCH*. ISSN 0008-8846, FEB 2014, vol. 56, p. 12-19., WOS
- [1.1] ARANDA, Miguel A. G. - DE LA TORRE, Angeles G. - LEON-REINA, Laura - BROEKMANS, MATM - POLLMANN, H. Rietveld Quantitative Phase Analysis of OPC Clinkers, Cements and Hydration Products. In *APPLIED MINERALOGY OF CEMENT & CONCRETE*. ISSN 1529-6466, 2012, vol. 74, no., pp. 169., WOS
- [1.1] LAM, C.H.K. - BARFORD, J.P. - MCKAY, G. Utilization of municipal solid waste incineration ash in Portland cement clinker. In *CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY*. ISSN 1618-954X, AUG 2011, vol. 13, no. 4, SI, p. 607-615., WOS
- [1.1] ROBLEDO-GUTIERREZ, M. - BLANCO-VARELA, M.T. - CARMONA-QUIROGA, P.M. Mineralogical Composition of Clinker as an Indicator of Sulfate Resistance: A Rietveld XRD/Takashima Approach. In *JOURNAL OF THE AMERICAN CERAMIC SOCIETY*. ISSN 0002-7820, NOV 2013, vol. 96, no. 11, p. 3637-3642., WOS
- [1.2] AATIQ, Abderrahim - TIGHA, R. - ATTAOUI, A. - NADI, N. - EL BOUARI, Abdeslam. A Rietveld quantitative XRD phase-analysis of selected composition of the Sr(0.5+x)Sb(1-x)Fe(1+x)(PO<sub>4</sub>)<sub>3</sub> (0 < x < 0.50) system. In *MATEC Web of Conferences*, 2013-01-01, 5, pp., SCOPUS

ADCA129 PRODI, Nicola - VELECKÁ, Sylvia. The evaluation of binaural playback systems for virtual sound fields. In *Applied Acoustics*, 2003, vol. 64, no. 2, p. 147-161. ISSN 0003-682X.

Ohlasy:

- [1.1] SHIMOKURA, R. - TRONCHIN, L. - COCCHI, A. - SOETA, Y. Subjective diffuseness of music signals convolved with binaural impulse responses. In *JOURNAL OF SOUND AND VIBRATION*. ISSN 0022-460X, JUL 4 2011, vol. 330, no. 14, p. 3526-3537., WOS

[1.2] OXNARD, S. - MURPHY, D. Achieving convolution-based reverberation through use of geometric acoustic modeling techniques. In 15th International Conference on Digital Audio Effects, DAFx 2012 Proceedings, 2012, pp., SCOPUS

ADCA130 RUDAJEVOVÁ, A. - KÚDELA, Stanislav, Jr. - KÚDELA, Stanislav - LUKÁČ, Pavel. Anisotropy of the thermal expansion in Mg fibre composites. In *Scripta Materialia*. - Oxford : Elsevier Science, 2005, vol. 53, p.1417-1420. (2005 - Current Contents, SCOPUS). ISSN 1359-6462.

Ohlasy:

[1.1] DAI, Q.W. - ZHANG, D.F. - CHEN, X. On the anisotropic deformation of AZ31 Mg alloy under compression. In MATERIALS & DESIGN. ISSN 0261-3069, DEC 2011, vol. 32, no. 10, p. 5004-5009., WOS

[1.1] RAMAKRISHNAN, M. - RAJAN, G. - SEMENOVA, Y. - BOCZKOWSKA, A. - DOMANSKI, A. - WOLINSKI, T. - FARRELL, G. Measurement of thermal elongation induced strain of a composite material using a polarization maintaining photonic crystal fiber sensor. In SENSORS AND ACTUATORS A-PHYSICAL. ISSN 0924-4247, FEB 1 2013, vol. 190, p. 44-51., WOS

ADCA131 SAHU, Sadananda - KAVECKÝ, Štefan - ILLÉSOVÁ, Ľubica - MADEJOVÁ, Jana - BERTÓTI, I. - SZÉPVÖLGYI, János. Formation of boron nitride thin films on  $\beta$ -Si<sub>3</sub>N<sub>4</sub> whiskers and  $\alpha$ -SiC platelets by dip-coating. In *Journal of the European Ceramic Society*, 1998, vol. 18, no. 8, p.1037-1043. ISSN 0955-2219.

Ohlasy:

[1.1] DAS, M. - GHATAK, S. Synthesis of boron nitride from boron containing poly(vinyl alcohol) as ceramic precursor. In BULLETIN OF MATERIALS SCIENCE. ISSN 0250-4707, 2012, vol. 35, no. 1, pp. 99., WOS

[1.1] GAIKWAD, Rajendra S. - MANE, Rajaram S. - PAWAR, Bhagwat N. - AMBADE, Rohan B. - AHN, Hee Joon - HAN, Sung-Hwan - JOO, Oh-Shim. Nitrogen-doped ZnO shells: Studies on optical transparency and electrical conductivity. In MATERIALS RESEARCH BULLETIN. ISSN 0025-5408, 2012, vol. 47, no. 5, pp. 1246., WOS

[1.1] CHEN, L. - WANG, Y.J. - HAMMADI, K. - ZHOU, Y. Homogeneous Microstructure of ZrO<sub>2</sub>-BN Composites with in-situ Synthesized BN. In HIGH-PERFORMANCE CERAMICS VIII. ISSN 1013-9826, 2014, vol. 602-603, p. 353-357., WOS

[1.1] LI DUAN - ZHANG CHANGRUI - LI BIN - CAO FENG - WANG SIQING - LIU KUN - FANG ZHENYU. Low-cost preparation of boron nitride ceramic powders. In JOURNAL OF WUHAN UNIVERSITY OF TECHNOLOGY-MATERIALS SCIENCE EDITION. ISSN 1000-2413, 2012, vol. 27, no. 3, pp. 534., WOS

[1.1] LI, Juan - LIN, Hong - CHEN, Yongjun - SU, Qiaoqiao - BI, Xiaofan. Synthesis and anti-oxidation performance of nanoflake-decorated boron nitride hollow microspheres. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, 2013, vol. 550, no., pp. 292., WOS

[1.1] YUAN, Sheng - BENAYOUN, Stephane - BRIOUDE, Arnaud - DEZELLUS, Olivier - BEAUGIRAUD, Bernard - TOURY, Berangere. New potential for preparation of performing h-BN coatings via polymer pyrolysis in

RTA furnace. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. ISSN 0955-2219, 2013, vol. 33, no. 2, pp. 393., WOS

[1.1] YUAN, S. - TOURY, B. - BENAYOUN, S. - PAN, W - GONG, JH. Preparation & Characterization of h-BN Coatings on Ti-Based Substrate Synthesized via the PDCs Route: Tribological Applications in Severe Conditions. In HIGH-PERFORMANCE CERAMICS VII, PTS 1 AND 2. ISSN 1013-9826, 2012, vol. 512-515, no., pp. 858., WOS

[1.2] RYBAK, Andrzej - GASKA, Karolina - TOCHE, François - SALLES, Vincent. Functional composites with core-shell filler for thermal management of electrical devices. In 16th European Conference on Composite Materials, ECCM 2014, 2014-01-01, pp., SCOPUS

ADCA132 SAHU, S. - KAVECKÝ, Štefan - SZÉPVÖLGYI, J. Preparation of fine amorphous silicon nitride powder in the system SiH<sub>4</sub>-Ar-NH<sub>3</sub>. In *Journal of the European Ceramic Society*, 1995, vol. 15, p.1071-1077. ISSN 0955-2219.

Ohlasy:

[1.1] SURI, J. - SHAW, L.L. - ZAWRAH, M.F. Synthesis of carbon-free Si<sub>3</sub>N<sub>4</sub>/SiC nanopowders using silica fume. In CERAMICS INTERNATIONAL. ISSN 0272-8842, DEC 2011, vol. 37, no. 8, p. 3477-3487., WOS

[1.1] ZOU, C. - ZHANG, Q.M. - ZHANG, S.H. - KUSHNER, D. - ZHOU, X. - BERNARD, R. - ORCHARD, R.J. PEN/Si<sub>3</sub>N<sub>4</sub> bilayer film for dc bus capacitors in power converters in hybrid electric vehicles. In JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B. ISSN 1071-1023, NOV 2011, vol. 29, no. 6., WOS

ADCA133 SEVOSTIANOV, Igor - KOVÁČIK, Jaroslav - SIMANČÍK, František. Elastic and electric properties of closed-cell aluminium foams Cross-property connection. In *Materials Science and Engineering. A. Structural Materials*, 2006, vol. 420, p. 87-99. (2006 - Current Contents, SCOPUS). ISSN 0921-5093.

Ohlasy:

[1.1] AZEEM, Sajjad - ZAIN-UL-ABDEIN, Muhammad. Investigation of thermal conductivity enhancement in bakelite-graphite particulate filled polymeric composite. In INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE. ISSN 0020-7225, MAR 2012, vol. 52, p. 30-40., WOS

[1.1] LI, B. Q. - LU, X. The Effect of Pore Structure on the Electrical Conductivity of Ti. In TRANSPORT IN POROUS MEDIA. ISSN 0169-3913, MAR 2011, vol. 87, no. 1, p. 179-189., WOS

[1.1] LUCA MOTOC, Dana - CARANFIL, Monica - GEAMAN, Virgil - RADOMIR, Irinel. A COMPARISON APPROACH ON PREDICTED AND RETRIEVED MECHANICAL PROPERTIES OF Ni FOAMS. In METALURGIA INTERNATIONAL. ISSN 1582-2214, 2013, vol. 18, no., pp. 69-72., WOS

[1.1] PETRACCA, S. - STABILE, A. Open cell conducting foams for high synchrotron radiation accelerators. In PHYSICAL REVIEW SPECIAL TOPICS-ACCELERATORS AND BEAMS. ISSN 1098-4402, AUG 28 2014, vol. 17, no. 8., WOS

[1.1] PICHLER, Ch - LACKNER, R. Sesqui-power scaling of elasticity of closed-cell foams. In MATERIALS LETTERS. ISSN 0167-577X, APR 15 2012, vol. 73, p. 212-215., WOS

[1.1] SEJNOHA, M - ZEMAN, J. Micromechanics in Practice. In

MICROMECHANICS IN PRACTICE, 2013, vol., no., pp. 1-271., WOS

[1.1] WU, M. S. Strategies and challenges for the mechanical modeling of biological and bio-inspired materials. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, AUG 12 2011, vol. 31, no. 6, SI, p. 1209-1220., WOS

[1.2] BERNDT, Edward A. - SEVOSTIANOV, Igor. Micromechanical analysis of the effect of void swelling on elastic and electric properties of irradiated steel. In Journal of Nuclear Materials. ISSN 00223115, 2014-03-01, 446, 1-3, pp. 148-154., SCOPUS

[1.2] PICHLER, Christian M. - LACKNER, Roman. Sesqui-power scaling of plateau strength of closed-cell foams. In Materials Science and Engineering A. ISSN 09215093, 2013-09-05, 580, pp. 313-321., SCOPUS

ADCA134 STEIN, George Juraj. A driver's seat with active suspension of electro-pneumatic type. In *Transactions of the ASME - J.of Vibration and Acoustics*, 1997, roč. 119, č. 2, s. 230-235.

Ohlasy:

[1.1] KSIAZEK, Marek A. - ZIEMIANSKI, Daniel. Optimal driver seat suspension for a hybrid model of sitting human body. In JOURNAL OF TERRAMECHANICS. ISSN 0022-4898, 2012, vol. 49, no. 5, pp. 255., WOS

[1.1] METERED, H. - SIKA, Z. Vibration Control of a Semi-active Seat Suspension System using Magnetorheological Damper. In 2014 IEEE/ASME 10TH INTERNATIONAL CONFERENCE ON MECHATRONIC AND EMBEDDED SYSTEMS AND APPLICATIONS (MESA 2014). 2014., WOS

[1.2] PAN, G.Y. - HAO, X.L. Research on modeling and simulation of active seat suspension system based on LQG control (Conference Paper). 2011 International Conference on Remote Sensing, Environment and Transportation Engineering, RSETE 2011 – Proceedings, Article number 5964362, p. 656-659., SCOPUS

[1.2] SINGH, H.J. - WERELEY, N.M. Optimized biodynamic shock attenuation performance using an adaptive seat suspension. In ASME 2011 Conference on Smart Materials, Adaptive Structures and Intelligent Systems, SMASIS 2011. ISBN 978-079185472-3, 2011, vol. 2, p. 387-395., SCOPUS

[1.2] SINGH, H.J. - WERELEY, N.M. Influence of occupant compliance on optimal control performance of a vertically stroking seat suspension. In 53rd AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference 2012, 2012, pp., SCOPUS

[1.2] SINGH, H.J. - WERELEY, N.M. Optimal occupant protection using vertically stroking seat suspensions with magnetorheological energy absorbers. In Annual Forum Proceedings AHS International, 2012, 2, pp. 915-930., SCOPUS

[3] CH. ARSHAD MEHMOOD, MUHAMMAD ALI: Linear and Nonlinear Controller Contrast for the Vibration Isolation System utilizing "Smart Spring. INTERNATIONAL JOURNAL OF ENHANCED RESEARCH IN SCIENCE TECHNOLOGY & ENGINEERING. VOL. 1, ISSUE 3, DEC. 2012, ISSN NO: 2319-7463

ADCA135 STEIN, George Juraj - MÚČKA, Peter - GUNSTON, T.P. A study of locomotive driver's seat vertical suspension system with adjustable damper. In *Vehicle System Dynamics*, 2009, vol. 47, no.3, p.363-386. (0.724 - IF2008). (2009 - Current Contents). ISSN 0042-3114.

Ohlasy:

- [1.1] MACIEJEWSKI, I. A Method for shaping the dynamic characteristics of vibration isolation systems. In *Mechatronic systems and materials IV*. ISSN 1012-0394, 2013, vol. 198, pp. 615-620., WOS
- [1.2] OREČNÝ, Martin - SEGL'A, Štefan. Passive suspension of a working machine horizontal platform. In *Applied Mechanics and Materials*. ISSN 16609336, 2014-01-01, 611, pp. 3-9., SCOPUS
- [1.2] SEGLA, Štefan - OREČNÝ, Martin - TRIŠOVIĆ, Nataša R. Semiactive seat suspension with a vibration absorber. In *Manufacturing technology*. ISSN 12132489, 2013-12-01, 13, 4, pp. 534-539., SCOPUS
- [1.2] SEGLA, Štefan - OREČNÝ, Martin - TRIŠOVIĆ, Nataša R. Passive seat suspension with a vibration absorber. In *Manufacturing technology*. ISSN 12132489, 2013-12-01, 13, 4, pp. 530-534., SCOPUS
- [3] MORGAN, Lauren Jayne. The influence of whole-body vibration and axial rotation on musculoskeletal discomfort of the neck and trunk. [PhD Thesis]. Loughborough University, Leicestershire, UK, 2011, 301 p.
- [3] SEGLA, Stefan – TRIŠOVIĆ, N. Optimization of semi-active seat suspension. In *American journal of mechanical engineering*, ISSN 2328-4102, 2013, Vol. 1, No. 7, pp. 221-225. Dostupné na internete: <http://pubs.sciepub.com/ajme/1/7/14/>
- [3] SEGLA, Stefan – TRIŠOVIĆ, N. Modeling and optimization of passive seat suspension. In *American journal of mechanical engineering*, ISSN 2328-4102, 2013, Vol. 1, No. 7, pp. 407–411. Dostupné na internete: <http://pubs.sciepub.com/ajme/1/7/51>

ADCA136 STEIN, George Juraj - MÚČKA, Peter - HINZ, Barbara - BLÜTHNER, Ralph. Measurement and modelling of the y-direction apparent mass of sitting human body-cushioned seat system. In *Journal of Sound and Vibration*, 2009, vol. 322, nos.1-2, p. 454-474. (1.364 - IF2008). ISSN 0022-460 X.

Ohlasy:

- [1.1] JI, Jinbao - DU, Yangyang - NI, Zhiwei - LI, Fangfang. Measurement and Analysis of Horizontal Vibration of Standing Human Body. In *TRENDS IN CIVIL ENGINEERING*, PTS 1-4. ISSN 1022-6680, 2012, vol. 446-449, p. 3032-3036., WOS
- [1.1] KANG, J.S. - CHOI, Y.S. - CHOE, K. Whole-body vibration analysis for assessment of railway vehicle ride quality. In *JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY*. ISSN 1738-494X, MAR 2011, vol. 25, no. 3, p. 577-587., WOS
- [1.1] SRDJEVIC, Zorica - CVETICANIN, Livija. Identifying nonlinear biomechanical models by multicriteria analysis. In *JOURNAL OF SOUND AND VIBRATION*. ISSN 0022-460X, FEB 27 2012, vol. 331, no. 5, p. 1207-1216., WOS
- [1.1] SRDJEVIC, Zorica. Comparison of different multicriteria methods in selecting optimal biomechanical model parameters. In *ZAMM-ZEITSCHRIFT FÜR ANGEWANDTE MATHEMATIK UND MECHANIK*. ISSN 0044-2267, JAN 2012, vol. 92, no. 2, p. 105-112., WOS
- [1.1] TARABINI, Marco - SOLBIATI, Stefano - MOSCHIONI, Giovanni - SAGGIN, Bortolino - SCACCABAROZZI, Diego. Analysis of non-linear response of the human body to vertical whole-body vibration. In *ERGONOMICS*. ISSN 0014-0139, NOV 2 2014, vol. 57, no. 11, p. 1711-1723.,

WOS

[1.1] ZHAO, Xiaojing - SCHINDLER, Christian. Investigation of the effect of safety belt on the seat transmissibility. In PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART K-JOURNAL OF MULTI-BODY DYNAMICS. ISSN 1464-4193, SEP 2014, vol. 228, no. 3, p. 252-265., WOS

[1.2] AMER, Saed T. - ONYEBUEKE, Landon C. The integration of Quality Function Deployment and Computer Aided Design in seat comfort design and analyses. In ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE), 2013-01-01, 12, pp., SCOPUS

[3] SHAHMIR, Arman, Characterization of apparent mass of human body seated on rigid and elastic seats under vertical vibration. [Masters thesis], 2012, Concordia University, Montreal, Quebec, Canada.

ADCA137 STEIN, George Juraj - MÚČKA, Peter - CHMÚRNY, Rudolf - HINZ, Barbara - BLÜTHNER, Ralph. Measurement and modelling of x-direction apparent mass of the seated human body-cushioned seat system. In *Journal of Biomechanics*, 2007, vol. 40, p.1493-1503. (2007 - Current Contents). ISSN 0021-9290.

Ohlasy:

[1.1] AMER, Saed - ONYEBUEKE, Landon. The integration of quality function deployment and computer aided design in seat comfort design and analyses. In PROCEEDINGS OF THE ASME INTERNATIONAL MECHANICAL ENGINEERING CONGRESS AND EXPOSITION, 2013. ISBN:978-0-7918-5641-3, VOL 12, 2014, no., pp., WOS

[1.1] CARVALHO OLIVEIRA, Terezinha de Jesus - BRITO, Valkisfran Lira - PIMENTEL, Roberto Leal - CUNHA, A - CAETANO, E - RIBEIRO, P - MULLER, G. Influence of seated spectators on the transverse modal properties of temporary grandstands. In EURO DYN 2014: IX INTERNATIONAL CONFERENCE ON STRUCTURAL DYNAMICS. ISSN 2311-9020, 2014, vol., no., pp. 1013-1018., WOS

[1.1] JI, Jinbao - DU, Yangyang - NI, Zhiwei - LI, Fangfang - DU, XL - ZHENG, JJ - YAN, WM - LI, Y - ZHANG, JW. Measurement and Analysis of Horizontal Vibration of Standing Human Body. In TRENDS IN CIVIL ENGINEERING, PTS 1-4. ISSN 1022-6680, 2012, vol. 446-449, no., pp. 3032., WOS

[1.1] KANG, J.S. - CHOI, Y.S. - CHOE, K. Whole-body vibration analysis for assessment of railway vehicle ride quality. In JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY. ISSN 1738-494X, MAR 2011, vol. 25, no. 3, p. 577-587., WOS

[1.1] KIM, K.S. - KIM, J. - KIM, K.J. Dynamic modeling of seated human body based on measurements of apparent inertia matrix for fore-and-aft/vertical/pitch motion. In JOURNAL OF SOUND AND VIBRATION. ISSN 0022-460X, NOV 7 2011, vol. 330, no. 23, p. 5716-5735., WOS

[1.1] ZHAO, Xiaojing - SCHINDLER, Christian. Investigation of the effect of safety belt on the seat transmissibility. In PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART K-JOURNAL OF MULTI-BODY DYNAMICS. ISSN 1464-4193, SEP 2014, vol. 228, no. 3, p. 252-265., WOS

[1.2] AMER, Saed T. - ONYEBUEKE, Landon C. The integration of Quality

Function Deployment and Computer Aided Design in seat comfort design and analyses. In ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE), 2013-01-01, 12, pp., SCOPUS

[1.2] AZIZI, Yousof - BAJAJ, Anil K. - DAVIES, Patricia. Development of a multi-body model to predict the settling point of a seat-occupant system. In Proceedings of the ASME Design Engineering Technical Conference, 2014-01-01, 8, pp., SCOPUS

[1.2] KOIZUMI, T. - TSUJIUCHI, N. - YAMAMOTO, M. - ANDO, H. Miniature model examination as human-body dynamics for seat durability evaluations. In Conference Proceedings of the Society for Experimental Mechanics Series. ISBN 978-144199833-0, 2011, vol. 3 (PART 1), p. 143-149., SCOPUS

[3] GAN, Zengkang – HILLIS, Andrew J. - DARLING, Jocelyn. Development of a biodynamic model of a seated human body exposed to low frequency whole-body vibration. In 11th INTERNATIONAL CONFERENCE ON VIBRATION PROBLEMS ICOVP 2013, Dimitrovová, Z. et al. (eds), Technical University of Lisbon, Lisbon, Portugal, 9-12 September 2013.

[3] KUMAR, Kranti. Sitting Biomechanics and Human Health: A Review. In 15TH INTERNATIONAL CONFERENCE OF INTERNATIONAL ACADEMY OF PHYSICAL SCIENCES - CONIAPS XV, Rajamangala University of Technology Thanyaburi, 9–13 December 2012, Pathumthani, Thailand.

[3] MANDAPURAM, Santosh Chary. Biodynamic Responses of the Seated Occupants to Multi-Axis Whole-Body Vibration. [PhD thesis], Faculty of Engineering and Computer Science, Concordia University, Montreal, Quebec, Canada, 2012, 232 p.

[3.2] SINHA, G. P. – BAJAJ, P. S. Vibration Analysis of Hero Honda Vehicle. In International Journal of Mechanical and Production Engineering. ISSN 2320-2092, Vol. 2, No. 2, 2014. Dostupné na internete: [http://iraj.in/journal/journal\\_file/journal\\_pdf/2-40-139486476530-35.pdf](http://iraj.in/journal/journal_file/journal_pdf/2-40-139486476530-35.pdf), StavEduk

[3.2] SINHA, G. P. – BAJAJ, P. S. Vibration Analysis of Hero Honda Vehicle. In Proc. of Fourth IRF International Conference, 13th July 2014, Goa, India. ISBN 978-93-84209-36-0, pp. 102-108. Dostupné na internete: [http://www.iraj.in/up\\_proc/pdf/90-1405942622102-108.pdf](http://www.iraj.in/up_proc/pdf/90-1405942622102-108.pdf), StavEduk

ADCA138 STEIN, George Juraj - MÚČKA, Peter - GUNSTON, T.P. - BADURA, S. Modelling and simulation of locomotive driver's seat vertical suspension vibration isolation system. In *International Journal of Industrial Ergonomics*, 2008, vol. 38, nos.5-6, p.384-395. (2008 - Current Contents). ISSN 0169-8141.

Ohlasy:

[1.1] KANG, J.S. - CHOI, Y.S. - CHOE, K. Whole-body vibration analysis for assessment of railway vehicle ride quality. In JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY. ISSN 1738-494X, MAR 2011, vol. 25, no. 3, p. 577-587., WOS

[1.1] KIM, K.S. - KIM, J. - KIM, K.J. Dynamic modeling of seated human body based on measurements of apparent inertia matrix for fore-and-aft/vertical/pitch motion. In JOURNAL OF SOUND AND VIBRATION. ISSN 0022-460X, NOV 7 2011, vol. 330, no. 23, p. 5716-5735., WOS



- [1.1] LI, Jiaqing - ZHANG, Zhifeng - XU, Huigan - FENG, Zhongxu. Dynamic characteristics of the vibratory roller test-bed vibration isolation system: Simulation and experiment. In JOURNAL OF TERRAMECHANICS. ISSN 0022-4898, DEC 2014, vol. 56, p. 139-156., WOS
- [1.1] MACIEJEWSKI, I. A Method for Shaping the Dynamic Characteristics of Vibration Isolation Systems. In MECHATRONIC SYSTEMS AND MATERIALS IV. ISSN 1012-0394, 2013, vol. 198, p. 615-620., WOS
- [1.1] PINHO, Marivan da Silva - SCHLOSSER, Jose Fernando - FRANTZ, Ulisses Giacomini - RODRIGUES, Fabricio Azevedo - FERRER, Pablo Silva. Effectiveness of a tractor cab cushion on the mitigation of vibrations. In REVISTA CIENCIA AGRONOMICA. ISSN 1806-6690, JUL-SEP 2014, vol. 45, no. 3, p. 461-468., WOS
- [1.1] ZHAO, Xiaojing - SCHINDLER, Christian. Investigation of the effect of safety belt on the seat transmissibility. In PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART K-JOURNAL OF MULTI-BODY DYNAMICS. ISSN 1464-4193, SEP 2014, vol. 228, no. 3, p. 252-265., WOS
- [1.2] HU, Q. - WANG, S. - CAO, S. - LI, J. Locomotive diesel engine fault state inspection based on the cylinder vibration analysis. In Proceedings - 3rd International Conference on Measuring Technology and Mechatronics Automation, ICMTMA 2011, 2, art. no. 5721225, ISBN 978-076954296-6, p. 481-484., SCOPUS
- [1.2] HU, Q.S. - LI, G.X. - CAO, S.Q. - XU, L.H. Locomotive engine cylinder head and fuel injecting vibration signal analysis. In Applied Mechanics and Materials. ISSN 1660-9336, 2011, vol. 66-68, p. 608-613., SCOPUS
- [1.2] LI, Chunsheng - LUO, Shihui - MA, Weihua. Vibration isolation performance analysis of a HXN3 diesel locomotive cab based on frequency response functions. In Zhendong yu Chongji/Journal of Vibration and Shock. ISSN 10003835, 2013-10-15, 32, 19, pp. 210-215., SCOPUS
- [3] MORGAN, Lauren Jayne. The influence of whole-body vibration and axial rotation on musculoskeletal discomfort of the neck and trunk. [PhD Thesis]. Loughborough University, Leicestershire, UK, 2011, 301 p.
- [3] MUSCĂ, Ioana Alexandra - RADU, Ioan - URSU-FISCHER, Nicolae. Contributions to the modeling of a mechanical system with two degrees of freedom corresponding to a seat - driver system. In ACTA TECHNICA NAPOCENSIS – Series: APPLIED MATHEMATICS AND MECHANICS, ISSN 1221-5872, Technical University of Cluj-Napoca, Cluj, Romania, Vol. 56, no. 3, 2013, pp. 545–548.
- [3] MUSCĂ, Ioana Alexandra. Contributii privind combaterea zgomotului ... [PhD Thesis]. [in Romanian]. Universitatea Tehnica din Cluj-Napoca - Facultatea de Constructii de Masini, Romania. 248 p.
- [3] MUSCĂ, Ioana Alexandra – URSU-FISCHER, Nicolae – VASS, Andrea. Contribution to the study of human body behavior influenced by the mechanical vibration. In ACTA TECHNICA NAPOCENSIS, SERIES: APPLIED MATHEMATICS AND MECHANICS, ISSN 1221-5872, Technical University of Cluj-Napoca, Cluj, Romania, Vol. 55, 2012, No. 2, pp. 463-468. Web info: <http://atna-mam.utcluj.ro/index.php/Acta/article/view/226/221>
- [3] PINHO, Marivan da Silva. Vibrações em um trator agrícola cabinado: magnitude das acelerações no assento e transmissibilidade através do coxim. [in Portuguese]. [PhD Thesis], Centro de Ciências Rurais, Universidade Federal de

Santa Maria, Santa Maria, Brasil, 2012, 160 p.

[3] SERRANO, Juan Dendarieta. Análisis y Evaluación Ergonómica de la Cabina de Conducción de un Tren de Alta Velocidad [in Spanish], [MSc Thesis]. Universidad de Zaragoza, Centro Politécnico Superior, Departamento de Ingeniería de Diseño y Fabricación, Área de Proyectos de Ingeniería, Zaragoza, Spain, 2011.

[3] YI, Qiu. A procedure for developing a generic model of a suspension seat with occupant for predicting seat transmissibility. In PROCEEDINGS OF THE 47TH UK CONFERENCE ON HUMAN RESPONSES TO VIBRATION, 17-19 September 2012. Human Factors Research Unit, Institute of Sound and Vibration Research, University of Southampton, United Kingdom.

[3] URSU-FISCHER, Nicolae – RADU, Ioan – MUSCĂ, Ioana Alexandra. Contributions to the dynamic study of one degree of freedom mechanical system, actuated by a harmonic force, with different elastic and viscous elements. In ACTA TECHNICA NAPOCENSIS – Series: APPLIED MATHEMATICS AND MECHANICS, ISSN 1221-5872, Technical University of Cluj-Napoca, Cluj, Romania, Vol. 56, No. 2, 2013, pp. 283–289.

ADCA139 STEIN, George Juraj - ZAHORANSKÝ, Radúz - GUNSTON, T.P. - BURSTRÖM, L. - MEYER, L. Modelling and simulation of a fore-and-aft driver's seat suspension system with road excitation. In *International Journal of Industrial Ergonomics*, 2008, vol. 38, nos.5-6, p.396--409. (2008 - Current Contents). ISSN 0169-8141.

Ohlasy:

[1.1] GUDARZI, M. - OVEISI, A. Robust Control for Ride Comfort Improvement of an Active Suspension System Considering Uncertain Driver's Biodynamics. In JOURNAL OF LOW FREQUENCY NOISE VIBRATION AND ACTIVE CONTROL. ISSN 0263-0923, 2014, vol. 33, no. 3, p. 317-339., WOS

[1.2] FARID, T.M. - SALAH, A. - ABBAS, D. Design of optimal linear suspension for quarter car with human model using genetic algorithms. In Journal of Applied Sciences Research. ISSN 1816-157X, 2011, vol. 7, no. 11, p. 1709-1720., SCOPUS

[1.2] FOULADI, M.H. - MOHD. NOR, M.J. - INAYATULLAH, O. - KAMAL, A. Evaluation of seat vibration sources in driving condition using spectral analysis. In Journal of Engineering Science and Technology. ISSN 1823-4690, 2011, vol. 6, no. 3, p. 342-358., SCOPUS

[1.2] YANG, Fan - RAKHEJA, Subhash. Influence of back support on the sagittal plane biodynamic response of seated human under vertical vibration. In Applied Mechanics and Materials. ISSN 16609336, 2014-01-01, 590, pp. 74-85., SCOPUS

[3.1] RATCHAPHON ITTIANUWAT - MOHAMMAD FARD - REZA JAZAR. Effects of Human Body Weight on the Vehicle Seat Structural Dynamics. The 21st Japan Conference on Human Response to Vibration (JCHRV2013) TKP Kanda Business Center, Tokyo, Japan August 27-29, 2013

ADCA140 STEIN, George Juraj. New results on an electro-pneumatic active seat suspension system. In *Proceedings of the Institution of Mechanical Engineers Part D : Journal of Automobile Engineering*, 2000, vol. 214, no.5, p.533-544. ISSN 0954-4070.

Ohlasy:

[1.1] XU, P.J. - BERNARDO, B. - TAN, K. Optimal mounting design for cab vibration isolation. In INTERNATIONAL JOURNAL OF VEHICLE DESIGN. ISSN 0143-3369, 2011, vol. 57, no. 2-3, p. 292-304., WOS

ADCA141 STEIN, George Juraj - ZAHORANSKÝ, Radúz - MÚČKA, Peter. On dry friction modelling and simulation in kinematically excited oscillatory systems. In *Journal of Sound and Vibration*, 2008, vol. 311, p.74-96. (1.024 - IF2007). (2008 - Current Contents). ISSN 0022-460 X.

Ohlasy:

[1.1] DEMIR, Ozgur - KESKIN, Ilknur - CETIN, Saban. Modeling and control of a nonlinear half-vehicle suspension system: a hybrid fuzzy logic approach. In NONLINEAR DYNAMICS. ISSN 0924-090X, FEB 2012, vol. 67, no. 3, p. 2139-2151., WOS

[1.1] FANG, Jie - WANG, Qi - WANG, Shimin - WANG, Qingyun. Min-max criterion to the optimal design of vibration absorber in a system with Coulomb friction and viscous damping. In NONLINEAR DYNAMICS. ISSN 0924-090X, OCT 2012, vol. 70, no. 1, p. 393-400., WOS

[1.1] HUNNEKENS, B.G.B. - FEY, R.H.B. - SHUKLA, A. - NIJMEIJER, H. Vibrational self-alignment of a rigid object exploiting friction. In NONLINEAR DYNAMICS. ISSN 0924-090X, JUL 2011, vol. 65, no. 1-2, p. 109-129., WOS

[1.1] LEACH, Derek - GUENTHER, Fabian - MAHESHWARI, Nandan - IIDA, Fumiya. Linear Multimodal Actuation Through Discrete Coupling. In IEEE-ASME TRANSACTIONS ON MECHATRONICS. ISSN 1083-4435, JUN 2014, vol. 19, no. 3, p. 827-839., WOS

[1.2] HUANG, X.G. - LI, J.Z. - LIU, X.F. Calculation and comparison of sliding displacement for a rigid block under earthquake based on Coulomb friction model, In Zhendong yu Chongji/Journal of Vibration and Shock. ISSN 1000-3835, 2011, vol. 30, no. 2, p. 186-191., SCOPUS

[1.2] ZHANG, H.T. - DING, Q. Homotopy method for periodic solution of self-excited vibration of a dry-friction system. In Zhendong yu Chongji/Journal of Vibration and Shock. ISSN 1000-3835, 2011, vol. 30, no. 8, p. 153-156., SCOPUS

[3] FARSHIDIANFAR, Anooshiravan - AGHAEE, Mehrdad Noei. Analytical Approaches for Friction Induced Vibration and Stability Analysis. In PROCEEDINGS OF 1ST INTERNATIONAL CONFERENCE ON ACOUSTICS & VIBRATION (ISAV 2011), Amirkabir University of Technology, Teheran, Iran, 2011.

[3] ISMAIL, Mohd, Shock isolation systems incorporating Coulomb friction. [PhD Thesis], University of Southampton, Faculty of Engineering and the Environment, UK, 2012, 243 pp.

[3] KARIM, Souheib Abdul. Nonlinear Dynamic Behaviour of Joined Lightweight Structures. [PhD Thessis], Lehrstuhl und Institut für Leichtbau, Fakultät für Maschinenwesen, RWTH Aachen, Germany, 2011, 190 p.

[3] MOHAMMED, Ammar A. Yousif - RAHIM, Inzarulfaisham Abd. Analysing the disc brake squeal: review and summary. In INTERNATIONAL JOURNAL OF SCIENTIFIC AND TECHNOLOGY RESEARCH, ISSN 2277-8616, Vol. 2., 2013, No. 4, pp. 60-72.

[3] SZILÁGYI, Attila. Szuperfiniselő berendezés dinamikai vizsgálata,

[PhD Thesis] Miskolci Egyetem, Gépészmérnöki Kar. Sályi István Gépészeti Tudományok Doktori Iskola, Hungary, 2011.

[3] TÖBBENS, Alexander. Dynamik und Bifurkationsverhalten eines getriebenen Oszillators mit frei aufliegender Dämpfermasse. [Dissertation]. [in German]. Fakultät für Physik, Institute of Aeroelasticity, Georg-August-Universität Göttingen, Germany, 2011, 103 p. Web info: <http://d-nb.info/1043023941/34>

[3] TOEBBENS, Alexander. Dynamik und Bifurkationsverhalten eines getriebenen Oszillators mit frei aufliegender Dämpfermasse. [PhD Thesis]. Georg-August-Universität Göttingen, Göttingen, Germany, 2011, 107 p.

[3] ŽIGIĆ, Miodrag. Structural vibrations with passive silencers fractional type and dry friction in seismic activity. [in Serbian]. [PhD Thesis]. Faculty of Technical Sciences in Novi Sad, University of Novi Sad, Novi Sad, Serbia, 2011. Web info:

[http://www.cris.uns.ac.rs/DownloadFileServlet/Disertacijadisertacija.pdf?controlNumber=\(BISIS\)77637&fileName=disertacija.pdf&id=357](http://www.cris.uns.ac.rs/DownloadFileServlet/Disertacijadisertacija.pdf?controlNumber=(BISIS)77637&fileName=disertacija.pdf&id=357)

[3.1] NIETO, M. G. – RAMIRÉZ, D. F. L. - GONZÁLEZ, P. E. T. Estudio del amortiguamiento por fricción seca en aislantes antivibratorios de cable. [In Spanish]. In INGENIERÍAS. ISSN 1405-0676, 2014, Vol. XVII, No. 64, pp. 20-30. Dostupné na internete:

[http://www.ingenierias.uanl.mx/64/documentos/64\\_estudio.pdf](http://www.ingenierias.uanl.mx/64/documentos/64_estudio.pdf)

[3.1] SINGH, Dipendra – BABU, V. Suresh – SRINIVASAN, J. Modeling and Analysis of Rotating Seal and Friction Damper; Calculation of Damper Stiffness. In INTERNATIONAL JOURNAL OF SCIENTIFIC ENGINEERING AND TECHNOLOGY. ISSN 2277-1581, 2014, Vol. 3, No. 8, pp. 1085-1087. Dostupné na internete:

[http://ijset.com/ijset/publication/v3s8/IJSET\\_2014\\_820.pdf](http://ijset.com/ijset/publication/v3s8/IJSET_2014_820.pdf)

ADCA142 STEIN, George Juraj - MÚČKA, Peter - CHMÚRNY, Rudolf. Preliminary results on an  $\chi$ -direction apparent mass model of human body sitting in a cushioned, suspended seat. In *Journal of Sound and Vibration*, 2006, vol. 298, p. 688-703. ISSN 0022-460 X.

Ohlasy:

[1.1] AFKAR, A. - JAVANSHIR, I. - AHMADIAN, M.T. - AHMADI, H. Optimization of a passenger occupied seat with suspension system exposed to vertical vibrations using genetic algorithms. In JOURNAL OF VIBROENGINEERING. ISSN 1392-8716, JUN 2013, vol. 15, no. 2, p. 979-991., WOS

[1.1] CARPINTERI, A. - SPAGNOLI, A. - VANTADORI, S. - BAGNI, C. Structural integrity assessment of metallic components under multiaxial fatigue: the C-S criterion and its evolution. In FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES. ISSN 8756-758X, SEP 2013, vol. 36, no. 9, SI, p. 870-883., WOS

[1.1] MARZBANRAD, J. - AFKAR, A. A BIOMECHANICAL MODEL AS A SEATED HUMAN BODY FOR CALCULATION OF VERTICAL VIBRATION TRANSMISSIBILITY USING A GENETIC ALGORITHM. In JOURNAL OF MECHANICS IN MEDICINE AND BIOLOGY. ISSN 0219-5194, AUG 2013, vol. 13, no. 4., WOS

[3] ZHENG, Guangtai. Biodynamics of the seated human body with dual-axis excitation: nonlinearity and cross-axis coupling. [PhD Thesis], Faculty

of Engineering and the Environment, Institute of Sound and Vibration Research, University of Southampton, 2012. 268 p.

- ADCA143     STEIN, George Juraj - MÚČKA, Peter. Theoretical investigation of a linear planar model of a passenger car with seated people. In *Proceedings of the Institution of Mechanical Engineers Part D : Journal of Automobile Engineering*, 2003, vol. 217, p. 257-268.

Ohlasy:

- [1.1]     KIM, B.S. - YOO, H.H. Ride comfort uncertainty analysis and reliability design of a passenger vehicle undergoing random road excitation. In PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART D-JOURNAL OF AUTOMOBILE ENGINEERING. ISSN 0954-4070, 2013, vol. 227, no. 3, p. 433-442., WOS
- [1.2]     FRIMPONG, S. - GALECKI, G. - CHANG, Z. Dump truck operator vibration control in high-impact shovel loading operations. In International Journal of Mining, Reclamation and Environment. ISSN 1748-0930, vol. 25, no. 3, p. 213-225., SCOPUS
- [3]        CAPUSTIAC, Nona Alina. Development and application of smart actuation methods for vehicle simulators. [PhD Thesis]. Fakultät für Ingenieurwissenschaften, Abteilung Maschinenbau und Verfahrenstechnik, Universität Duisburg-Essen, 2011, 149 p.
- [3]        KUŽO, I. V. – ŽITENKO, O. V. – KOSTELNITSKA. G. V. Modelovanija v systemi MATLAB SIMULINK dinamiki avtomobilja s uvažnim tila ljudiny [In Russian]. In VISNIK NACIONAL'NOVO UNIVERSITETU LVIVSKA POLITECHNIKA, ISSN 0321-0499, Vidavnistvo Lvivskoj Politehniki, No. 713, 2011, pp. 87-93.
- [3]        MADAKASHIRA-PRANESH, Anand. Experimental and analytical study of transmission of whole body vibration to segments of the seated human body [PhD Thesis]. Concordia University, Montréal, Québec, Canada, 2011, 315 p.
- [3]        WU Hui-chao – WU Ping-bo. Effect of Equipment Suspension Stiffness on Riding Quality. In NOISE AND VIBRATION CONTROL, ISSN 006-1355, 2012, vol. 32, No. 4, pp. 73-77.

- ADCA144     STEIN, Juraj - BALLO, Igor. Active vibration control system for the driver's seat for off-road vehicles. In *Vehicle System Dynamics*, 1991, roč., č. 2, s. 57-78.

Ohlasy:

- [1.1]     KSIAZEK, M.A. - ZIEMIANSKI, D. Optimal driver seat suspension for a hybrid model of sitting human body. In JOURNAL OF TERRAMECHANICS. ISSN 0022-4898, OCT 2012, vol. 49, no. 5, p. 255-261., WOS
- [1.2]     JABEEN, Syeda Darakhshan. Vibration optimization of a passive suspension system via genetic algorithm. In International Journal of Modeling, Simulation, and Scientific Computing. ISSN 17939623, 2013-03-01, 4, 1, pp., SCOPUS
- [3]        KHAN, Laiq - BADAR, Rabiah - Shahid QAMAR, Adaptive Fuzzy Wavelet NN Control Strategy for Full Car Suspension System (Chapter 8), In Fuzzy Logic - Emerging Technologies and Applications, ISBN 978-953-51-0337-0, Book edited by Elmer P. Dadios, InTech, Rijeka, Croatia, 2012, 348 p., DOI: 10.5772/35661.

ADCA145     STEIN, Juraj. Results of investigation of an electropneumatic active vibration control system for a driver's seat. In *Proc. of the Institution of Mechanical Engineers. Part D. J. of Automobile Engineering*, 1995, roč., č., s. 227-234.

Ohlasy:

[1.1]     MACIEJEWSKI, I. Control system design of active seat suspensions. In JOURNAL OF SOUND AND VIBRATION. ISSN 0022-460X, MAR 12 2012, vol. 331, no. 6, p. 1291-1309., WOS

[1.1]     MACIEJEWSKI, I. - GLOWINSKI, S. - KRZYZYNSKI, T. Active control of a seat suspension with the system adaptation to varying load mass. In MECHATRONICS. ISSN 0957-4158, DEC 2014, vol. 24, no. 8, p. 1242-1253., WOS

ADCA146     ŠEBO, Pavol - ŠTEFÁNIK, Pavol. Copper matrix-carbon fibre composites. In *International Journal of Materials and Product Technology*, 2003, vol. 18, nos. 1, p. 141-159. ISSN 0268-1900.

Ohlasy:

[1.1]     KARDASHEV, B.K. - ORLOVA, T.S. - SMIRNOV, B.I. - GUTIERREZ, A. - RAMIREZ-RICO, J. Structure-mediated transition in the behavior of elastic and inelastic properties of beach tree bio-carbon. In PHYSICS OF THE SOLID STATE. ISSN 1063-7834, SEP 2013, vol. 55, no. 9, p. 1884-1891., WOS

[1.1]     KIMMIG, S. - ALLEN, I. - YOU, J. H. Strength and conductivity of unidirectional copper composites reinforced by continuous SiC fibers. In JOURNAL OF NUCLEAR MATERIALS. ISSN 0022-3115, 2013, vol. 440, no. 1-3, pp. 272-277., WOS

[1.1]     LI DAGUANG - CHEN GUOQIN - JIANG LONGTAO - XIU ZIYANG - ZHANG YUNHE - WU GAOHUI. Effect of thermal cycling on the mechanical properties of Cf/Al composites. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, 2013, vol. 586, no., pp. 330-337., WOS

[1.1]     LI, W.W. - LIU, L. - SHEN, B. The fabrication and properties of short carbon fiber reinforced copper matrix composites. In JOURNAL OF COMPOSITE MATERIALS. ISSN 0021-9983, NOV 2011, vol. 45, no. 24, p. 2567-2571., WOS

[1.1]     POPOV, V.V. - ORLOVA, T.S. - MAGARINO, E.E. - BAUTISTA, M.A. - FERNANDEZ, J.M. Specific features of electrical properties of porous biocarbons prepared from beech wood and wood artificial fiberboards. In PHYSICS OF THE SOLID STATE. ISSN 1063-7834, FEB 2011, vol. 53, no. 2, p. 276-283., WOS

[1.1]     TONG, X.C. High Thermal Conductivity Metal Matrix Composites. In ADVANCED MATERIALS FOR THERMAL MANAGEMENT OF ELECTRONIC PACKAGING. ISSN 1437-0387, 2011, vol. 30, p. 233-276., WOS

[1.2]     YANG, Hao - ZHU, Mingming - LI., Wei. Friction and wear behaviors of short carbon fibre reinforced copper matrix composites with electric current. In Tezhong Zhuzao Ji Youse Hejin/Special Casting and Nonferrous Alloys. ISSN 10012249, 2013-08-01, 33, 8, pp. 765-768., SCOPUS

[1.2]     ZHU, Mingming - LI., Wei. Electroless plating copper short carbon

fiber reinforced copper based composites. In Tezhong Zhuzao Ji Youse Hejin/Special Casting and Nonferrous Alloys. ISSN 10012249, 2013-05-01, 33, 5, pp. 462-465., SCOPUS

[1.2] ZHU, M. - LI, W. Present status on surface copper plating of the short carbon fiber reinforcement in the copper matrix composite. In Tezhong Zhuzao Ji Youse Hejin/Special Casting and Nonferrous Alloys, 2012, 32, 8, pp. 771-774., SCOPUS

ADCA147 ŠEBO, Pavol - MOSER, Zbigniew - ŠVEC, Peter - JANIČKOVIČ, Dušan - DOBROČKA, Edmund - GASIOR, Wladyslaw - PSTRUŚ, Janus. Effect of indium on the microstructure of the interface between Sn<sub>3.13</sub>Ag<sub>0.74</sub>CuIn solder and Cu substrate. In *Journal of Alloys and Compounds*, 2009, vol. 480, no. 2, p. 409-415. (1.510 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0925-8388.

Ohlasy:

[1.1] FALLAHI, H. - NURULAKMAL, M.S. - FALLAHI, A. - ABDULLAH, J. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. SEP 2012, vol. 23, no. 9, p. 1739-1749., WOS

[1.1] HODULOVA, E. - PALCUT, M. - LECHOVIC, E. - SIMEKOVA, B. - ULRICH, K. In JOURNAL OF ALLOYS AND COMPOUNDS. JUN 23 2011, vol. 509, no. 25, p. 7052-7059., WOS

[1.1] HONG, E. - KAPLIN, B. - YOU, T. - SUH, M.S. - KIM, Y.S. - CHOE, H. In WEAR. APR 4 2011, vol. 270, no. 9-10, p. 591-597., WOS

[1.1] KIM, Y. - CHOI, H. - LEE, H. - SHIN, D. - MOON, J. - CHOE, H. In JOURNAL OF MATERIALS SCIENCE. NOV 2011, vol. 46, no. 21, p. 6897-6903., WOS

[1.1] LEJUSTE, C. - HODAJ, F. - PETIT, L. Solid state interaction between a Sn-Ag-Cu-In solder alloy and Cu substrate. In INTERMETALLICS. ISSN 0966-9795, MAY 2013, vol. 36, p. 102-108., WOS

[1.1] PIYAVATIN, P. - LOTHONGKUM, G. - LOHWONGWATANA, B. In MATERIALS TESTING. 2012, vol. 54, no. 6, p. 383-389., WOS

ADCA148 ŠEBO, Pavol - ŠVEC, Peter - JANIČKOVIČ, Dušan - ŠTEFÁNIK, Pavol. Influence of thermal cycling on shear strength of Cu-Sn<sub>3.5</sub>AgIn-Cu joints with various content of indium. In *Journal of Alloys and Compounds*, 2008, vol. 463, p. 168-172. (1.455 - IF2007). (2008 - Current Contents, WOS, SCOPUS). ISSN 0925-8388.

Ohlasy:

[1.1] HODULOVA, E. - SIMEKOVA, B. - KOVARIKOVA, I. - LECHOVIC, E. - ULRICH, K. Research and development of lead-free solder for microelectronics in consideration of the environmental and qualitative aspects. In WELDING IN THE WORLD. ISSN 0043-2288, SEP 2014, vol. 58, no. 5, p. 719-727., WOS

[1.1] LEJUSTE, C. - HODAJ, F. - PETIT, L. Solid state interaction between a Sn-Ag-Cu-In solder alloy and Cu substrate. In INTERMETALLICS. ISSN 0966-9795, MAY 2013, vol. 36, p. 102-108., WOS

[1.1] PIYAVATIN, P. - LOTHONGKUM, G. - LOHWONGWATANA, B. Characterization of Eutectic Sn-Cu Solder Alloy Properties Improved by Additions of Ni, Co and In. In MATERIALS TESTING. ISSN 0025-5300, 2012, vol. 54, no. 6, p. 383-389., WOS

ADCA149    ŠEBO, Pavol - ŠVEC, Peter - JANIČKOVIČ, Dušan - ILLEKOVÁ, Emília - PLEVACHUK, Yu. Interface between Sn-Sb-Cu solder and copper substrate. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*, 2011, vol. 528, p. 5955-5960. (2.101 - IF2010). (2011 - Current Contents). ISSN 0921-5093.

Ohlasy:

[1.1]    KOBAYASHI, Y. - SHIROCHI, T. - YASUDA, Y. - MORITA, T. Metal-metal bonding process using metallic copper nanoparticles prepared in aqueous solution. In *INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES*. ISSN 0143-7496, MAR 2012, vol. 33, p. 50-55., WOS

ADCA150    ŠEBO, Pavol - ŠVEC, Peter - JANIČKOVIČ, Dušan - ILLEKOVÁ, Emília - ZEMÁNKOVÁ, Milina - PLEVACHUK, Yu - SIDOROV, V. - ŠVEC, Peter Jr. The influence of silver content on structure and properties of Sn-Bi-Ag solder and Cu/solder/Cu joints. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*, 2013, vol. A 571, p. 184-192. (2.108 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0921-5093.

Ohlasy:

[1.1]    MYUNG, W.R. - KIM, Y. - JUNG, S.B. Mechanical property of the epoxy-contained Sn-58Bi solder with OSP surface finish. In *JOURNAL OF ALLOYS AND COMPOUNDS*. ISSN 0925-8388, DEC 5 2014, vol. 615, p. S411-S417., WOS

ADCA151    ŠEBO, Pavol - GALLOIS, B. - LUPIS, Ch.P. The surface tension of liquid silver-copper alloys. In *Metallurgical and Materials Transactions B : Process Metallurgy and Materials Processing Science*, 1977, vol.8, p.691. ISSN 1073-5615.

Ohlasy:

[1.1]    AQRA, F. - AYYAD, A. Theoretical calculations of the surface tension of Ag(1-x)-Cu-(x) liquid alloys. In *JOURNAL OF ALLOYS AND COMPOUNDS*. ISSN 0925-8388, MAY 12 2011, vol. 509, no. 19, p. 5736-5739., WOS

[1.1]    GARZEL, G. - JANCZAK-RUSCH, J. - ZABDYR, L. Reassessment of the Ag-Cu phase diagram for nanosystems including particle size and shape effect. In *CALPHAD-COMPUTER COUPLING OF PHASE DIAGRAMS AND THERMOCHEMISTRY*. ISSN 0364-5916, MAR 2012, vol. 36, p. 52-56., WOS

[1.1]    HAI, H.T. - TAKAMURA, H. - KOIKE, J. Oxidation behavior of Cu-Ag core-shell particles for solar cell applications. In *JOURNAL OF ALLOYS AND COMPOUNDS*. ISSN 0925-8388, JUL 5 2013, vol. 564, p. 71-77., WOS

[1.1]    RAMACHANDRAN, M. - REDDY, R.G. Thermodynamics of Nanoscale Materials. In *JOM*. ISSN 1047-4838, JAN 2011, vol. 63, no. 1, p. 44-46., WOS

[1.1]    SINGH, R.N. - SOMMER, F. Viscosity of liquid alloys: generalization of Andrade's equation. In *MONATSHEFTE FÜR CHEMIE*. ISSN 0026-9247, SEP 2012, vol. 143, no. 9, SI, p. 1235-1242., WOS

ADCA152    ŠTEFÁNIK, Pavol - ŠEBO, Pavol. Thermal Expansion of Copper Carbon Fiber Composites. In *Theoretical and Applied Fracture Mechanics*, 1994, vol.20, no.1, p.41-45. ISSN 0167-8442.

Ohlasy:

[1.1]    KOVACIK, J. - EMMER, S. Thermal expansion of Cu/graphite



composites: effect of copper coating. In KOVOVE MATERIALLY-METALLIC MATERIALS. ISSN 0023-432X, 2011, vol. 49, no. 6, p. 411-416., WOS  
 [1.1] WU, Y. - WANG, M.L. - CHEN, Z. - MA, N.H. - WANG, H.W. The effect of phase transformation on the thermal expansion property in Al/ZrW<sub>2</sub>O<sub>8</sub> composites. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, APR 2013, vol. 48, no. 7, p. 2928-2933., WOS  
 [1.2] TAO, Z. - GUO, Q. - GAO, X. - LIU, L. Graphite fiber/copper composites with near-zero thermal expansion. In Materials and Design, 2012, 33, 1, pp. 372-375., SCOPUS

ADCA153 ŠTEFÁNIK, Pavol - KAVECKÝ, Štefan - KORB, Georg - GROBOTH, Gerhard. Thermal expansion of copper matrix composite with spiral arrangement of carbon fibres. In *Journal of Materials Science Letters*, 1997, roč. 16, č. 5, s. 392-394.

Ohlasy:

[1.1] EL-HADEK, M. - KAYTBAY, S. Characterization of Copper Carbon Composites Manufactured Using the Electroless Precipitation Process. In MATERIALS AND MANUFACTURING PROCESSES. ISSN 1042-6914, SEP 2 2013, vol. 28, no. 9, p. 1003-1008., WOS

ADCA154 ŠTEFÁNIK, Pavol - ŠEBO, Pavol. Thermal stability of copper coating on carbon fibres. In *Journal of Materials Science Letters*, 1993, roč. 12, č., s. 1083-1085.

Ohlasy:

[1.2] YIN, Y.-H. - FU, M. - ZHAO, J.-L. - WANG, C.-F. Electroless plating of carbon nanotubes and their millimeter-wave absorbing properties. In *Journal of Beijing Institute of Technology (English Edition)*, 2012, 21, 4, pp. 551-557., SCOPUS

ADCA155 TROJANOVÁ, Zuzanka - DROZD, Zdeněk - KÚDELA, Stanislav - SZÁRAZ, Z. - LUKÁČ, P. Strengthening in Mg-Li matrix composites. In *Composites Science and Technology*, 2007, vol. 67, p.1965-1973. (2.027 - IF2006). (2007 - Current Contents). ISSN 0266-3538.

Ohlasy:

[1.1] ANISH, R. - SINGH, G. Robert - SIVAPRAGASH, M. Techniques for processing metal matrix composite; A survey. In INTERNATIONAL CONFERENCE ON MODELLING OPTIMIZATION AND COMPUTING. ISSN 1877-7058, 2012, vol. 38, p. 3846-3854., WOS

[1.1] BANERJI, A. - HU, H. - ALPAS, A.T. Sliding wear mechanisms of magnesium composites AM60 reinforced with Al<sub>2</sub>O<sub>3</sub> fibres under ultra-mild wear conditions. In WEAR. ISSN 0043-1648, APR-MAY 2013, vol. 301, no. 1-2, SI, p. 626-635., WOS

[1.1] FARKAS, G. - ZDRAZILOVA, Z. - MATHIS, K. STUDY OF DEFORMATION MECHANISMS OF A Mg-Al-Sr ALLOY REINFORCED WITH SHORT SAFFIL (R) FIBRES. In METAL 2013: 22ND INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS. 2013, p. 1449-1454., WOS

[1.1] HOU, L. - MENG, X. - WU, R. - ZHANG, M. Effect of deformation and heat treatment on microstructure and mechanical properties of Mg-8Li-1Al-0.6Ce alloy. In KOVOVE MATERIALLY-METALLIC

- MATERIALS. ISSN 0023-432X, 2013, vol. 51, no. 1, p. 83-87., WOS
- [1.1] HOU, L.G. - WU, R.Z. - LI, J.Q. - ZHANG, J.H. - ZHANG, M.L. - SHANG, Y.C. - QU, Z.K. Effects of hot extrusion on microstructure, texture and mechanical properties of Mg-5Li-3Al-2Zn alloy. In ADVANCES IN MATERIALS AND PROCESSING TECHNOLOGIES XV. ISSN 0255-5476, 2014, vol. 773-774, p. 218-225., WOS
- [1.1] CHEN LI-JUN - ZHANG MI-LIN - HAN WEI - YAN YONG-DE - CAO PENG. Electrochemical Behavior of Mn(II) in the Melt LiCl-KCl-MgCl<sub>2</sub>-MnCl<sub>2</sub>. In CHEMICAL JOURNAL OF CHINESE UNIVERSITIES-CHINESE. ISSN 0251-0790, FEB 10 2012, vol. 33, no. 2, p. 327-330., WOS
- [1.1] CHEN, Z.Y. - DONG, Z.C. - YU, C. - TONG, R. Microstructure and properties of Mg-5.21Li-3.44Zn-0.32Y-0.01Zr alloy. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, JAN 1 2013, vol. 559, p. 651-654., WOS
- [1.1] JIANG BIN - YIN HENG-MEI - YANG QING-SHAN - LI RUI-HONG - PAN FU-SHENG. Effect of stannum addition on microstructure of as-cast and as-extruded Mg-5Li alloys. In TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA. ISSN 1003-6326, NOV 2011, vol. 21, no. 11, p. 2378-2383., WOS
- [1.1] JIANG, Bin - ZENG, Ying - YIN, Hengmei - LI, Ruihong - PAN, Fusheng. Effect of Sr on microstructure and aging behavior of Mg-14Li alloys. In PROGRESS IN NATURAL SCIENCE-MATERIALS INTERNATIONAL. ISSN 1002-0071, APR 2012, vol. 22, no. 2, p. 160-168., WOS
- [1.1] LI RUI-HONG - PAN FU-SHENG - JIANG BIN - YIN HENG-MEI - LIU TING-TING. Effects of yttrium and strontium additions on as-cast microstructure of Mg-14Li-1Al alloys. In TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA. ISSN 1003-6326, APR 2011, vol. 21, no. 4, p. 778-783., WOS
- [1.1] MATHIS, K. - FARKAS, G. - JANECEK, M. - CHOE, H. Acoustic emission study of Mg-Al-Sr alloy reinforced with short Saffil((R)) fibers deformed in compression. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, JUL 15 2013, vol. 575, p. 1-5., WOS
- [1.1] SHAO, J. C. - XIAO, B. L. - WANG, Q. Z. - MA, Z. Y. - YANG, K. An enhanced FEM model for particle size dependent flow strengthening and interface damage in particle reinforced metal matrix composites. In COMPOSITES SCIENCE AND TECHNOLOGY. ISSN 0266-3538, JAN 1 2011, vol. 71, no. 1, p. 39-45., WOS
- [1.1] WANG, J.F. - XU, D.D. - LU, R.P. - PAN, F.S. Damping properties of as-cast Mg-xLi-1Al alloys with different phase composition. In TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA. ISSN 1003-6326, FEB 2014, vol. 24, no. 2, p. 334-338., WOS
- [1.1] WANG, X. J. - NIE, K. B. - SA, X. J. - HU, X. S. - WU, K. - ZHENG, M. Y. Microstructure and mechanical properties of SiCp/Mg-Zn-Ca composites fabricated by stir casting. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, FEB 1 2012, vol. 534, p. 60-67., WOS
- [1.1] XUE YUN - YAN YONGDE - ZHANG MILIN - HAN WEI - ZHANG

ZHIJIAN. Electrochemical formation of Mg-Li-Y alloys by co-deposition of magnesium, lithium and yttrium ions in molten chlorides. In JOURNAL OF RARE EARTHS. ISSN 1002-0721, OCT 2012, vol. 30, no. 10, p. 1048-1054., WOS

[1.1] XU, C.J. - MA, T. - WANG, J.C. - TU, T. - ZHANG, Z.M. Effects of Y on Microstructure and Mechanical Properties of Mg-8Li-4Zn-xY Magnesium Alloy and Its 1 mm Thick Sheet. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, JUN 2013, vol. 42, no. 6, p. 1226-1230., WOS

[1.1] XU, T.C. - PENG, X.D. - JIANG, J.W. - WEI, G.B. - ZHANG, B. Microstructure and Mechanical Properties of Superlight Mg-Li-Al-Zn Wrought Alloy. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, AUG 2014, vol. 43, no. 8, p. 1815-1820., WOS

[1.1] YANG, C. - ZONG, Y.Y. - ZHENG, Z.Z. - SHAN, D.B. Experimental and theoretical investigation on the compressive behavior of aluminum borate whisker reinforced 2024Al composites. In MATERIALS CHARACTERIZATION. ISSN 1044-5803, OCT 2014, vol. 96, p. 84-92., WOS

[1.1] ZENG, Y. - JIANG, B. - ZHANG, M.X. - YIN, H.M. - LI, R.H. - PAN, F.S. Effect of Mg<sub>24</sub>Y<sub>5</sub> intermetallic particles on grain refinement of Mg-9Li alloy. In INTERMETALLICS. ISSN 0966-9795, FEB 2014, vol. 45, p. 18-23., WOS

[1.1] ZHANG, M. - HAN, W. - ZHANG, M.L. - ZHU, F.Y. - XUE, Y. - ZHANG, Z.J. Electrochemical formation process and phase control of Mg-Li-Ce alloys in molten chlorides. In JOURNAL OF RARE EARTHS. ISSN 1002-0721, JUN 2013, vol. 31, no. 6, p. 609-615., WOS

[1.1] ZHANG, Q.Q. - WU, G.Q. - SHA, W. - HUANG, Z. - TAO, Y. Preparation and surface modification of submicron YAl<sub>2</sub> particles by mixed milling with magnesium for fabricating YAl<sub>2</sub>p/MgLiAl composites. In POWDER TECHNOLOGY. ISSN 0032-5910, AUG 2014, vol. 262, p. 209-214., WOS

[1.1] ZHANG, Q.Q. - WU, G.Q. - HUANG, Z. - TAO, Y. Effects of particle/matrix interfaces on the mechanical properties for SiCp or YAl<sub>2</sub>p reinforced Mg-Li composites. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, MAR 5 2014, vol. 588, p. 1-6., WOS

[1.1] ZHANG, Q.Q. - WU, G.Q. - HUANG, Z. - TAO, Y. Characterization of the correlation between the interfaces and failure behaviors for particle reinforced Mg-Li composites. In MATERIALS CHARACTERIZATION. ISSN 1044-5803, MAR 2014, vol. 89, p. 1-6., WOS

[1.1] ZHANG, X. - WU, G. Q. - LING, Z. H. - HUANG, Z. A novel method to control agglomeration of ultrafine YAl<sub>2</sub> particles in YAl<sub>2</sub>p/MgLiAl composite. In MATERIALS LETTERS. ISSN 0167-577X, JAN 15 2011, vol. 65, no. 1, p. 104-106., WOS

[1.2] LIANG, Xi - LIU, Zhijian - DONG, Qiduo - HUANG, Haifeng. Effects of synthesis process and addition of yttrium on Mg-Li based composite materials. In Zhongguo Xitu Xuebao/Journal of the Chinese Rare Earth Society. ISSN 10004343, 2013-02-01, 31, 1, pp. 20-25., SCOPUS

[1.2] LIU, Y. - SUN, X.L. - WU, G.X. - JIANG, D.M. - WU, G.H. Microstructure and mechanical properties of B 4C/AZ91 composites. Cailiao Kexue yu Gongyi/Material Science and Technology. ISSN 1005-0299, 2011, vol. 19 (SUPPL. 1), p. 93-97., SCOPUS

- [1.2] WEI, Guobing - PENG, Xiaodong - ZUO, Xiaojun - XIE, Weidong - YANG, Yan. Influence of Y on the microstructure, mechanical properties and fracture mechanism of Mg-8Li-3Zn alloy. In 8th Pacific Rim International Congress on Advanced Materials and Processing 2013, PRICM 8, 2013-01-01, 2, pp. 1283-1290., SCOPUS
- [1.2] WU, Guoqing - ZHANG, Qingqing - HUANG, Zheng. Progress in research of ultrafine intermetallic compound particles reinforced Mg-Li matrix composites. In Materials China. ISSN 16743962, 2013-12-01, 32, 3, pp. 172-178., SCOPUS
- [1.2] XU, Dan Dan - XU, Dan Dan - WANG, Jing Feng - WANG, Jing Feng - LU, Ruo Peng - LU, Ruo Peng. Mechanical properties and damping capacity of Mg-Li alloys with different phases. In Zhongguo Youse Jinshu Xuebao/Chinese Journal of Nonferrous Metals. ISSN 10040609, 2014-01-01, 24, 4, pp. 848-854., SCOPUS
- [1.2] ZHANG, Kun Yu - ZHANG, Kun Yu - LIU, Xing Hai - MA, Zi Zai - WEI, Ai Li - LIANG, Wei - LIANG, Wei. Effect of heat treatment on microstructure and mechanical properties of Mg-10.83Li-2.62Al-0.34Si alloy. In Cailiao Rechuli Xuebao/Transactions of Materials and Heat Treatment. ISSN 10096264, 2014-01-01, 35, 4, pp. 96-100., SCOPUS
- [1.2] ZHANG, X. - WU, G. - LING, Z. - HUANG, Z. Effect of mix milling on the microstructure and surface modification of YAl<sub>2</sub> particles. In Beijing Hangkong Hangtian Daxue Xuebao/Journal of Beijing University of Aeronautics and Astronautics. ISSN 1001-5965, 2011, vol. 37, no. 11, p. 1425-1428., SCOPUS

ADCA156 VIERKE, Jens - SCHUMACHER, Gerhard - BALOG, Martin - NAGY, Juraj - SIMANČÍK, František - WOLLGARTEN, Markus - BANHART, John. Plastic deformation of Al<sub>85</sub>Ni<sub>10</sub>La<sub>5</sub> by equal channel angular pressing. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*, 2012, vol. A 558, p. 64-69. (2.003 - IF2011). (2012 - Current Contents, SCOPUS, WOS). ISSN 0921-5093.

Ohlasy:

- [1.1] FU, J. - ZHU, Y.H. - ZHENG, C. - LIU, R. - JI, Z. Effect of laser shock peening on mechanical properties of Zr-based bulk metallic glass. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, SEP 15 2014, vol. 313, p. 692-697., WOS

ADCA157 VOJTĚCH, D. - VERNER, J. - ŠERÁK, J. - SIMANČÍK, František - BALOG, Martin - NAGY, Juraj. Properties of thermally stable PM Al-Cr based alloys. In *Materials Science and Engineering. A. Structural Materials*, 2007, vol. 458, p. 371-380. (1.490 - IF2006). (2007 - Current Contents, WOS, SCOPUS). ISSN 0921-5093.

Ohlasy:

- [1.1] KRAINIKOV, A.V. - NEIKOV, O.D. Rapidly solidified high-temperature aluminum alloys. I. Structure. In POWDER METALLURGY AND METAL CERAMICS. ISSN 1068-1302, NOV 2012, vol. 51, no. 7-8, p. 399-411., WOS
- [1.1] KRAINIKOV, A.V. - NEIKOV, O.D. Rapidly Solidified High-Temperature Aluminum Alloys. II. Mechanical Properties. In POWDER METALLURGY AND METAL CERAMICS. ISSN 1068-1302, JAN 2013, vol.

51, no. 9-10, p. 554-565., WOS

[1.1] PANG, M.J. - ZHAN, Y.Z. - DU, Y. Solid state phase equilibria and intermetallic compounds of the Al-Cr-Ho system. In JOURNAL OF SOLID STATE CHEMISTRY. ISSN 0022-4596, FEB 2013, vol. 198, p. 344-356., WOS

[1.2] YUAN, X.J. - YIN, H.Q. - QU, X.H. Influence of heat treatment on microstructure and properties of AlFeCrTi alloy prepared by high velocity compaction. Cailiao Rechuli Xuebao/Transactions of Materials and Heat Treatment, 2012, vol. 33, no. 11, p. 50-53., SCOPUS

ADCA158 YU, Peng - BALOG, Martin - YAN, M. - SCHAFFER, G.B. - QIAN, M. In situ fabrication and mechanical properties of Al-AlN composite by hot extrusion of partially nitrided AA6061 powder. In *Journal of Materials Research*, 2011, vol.26, no.14, pp. 1719-1725. (1.402 - IF2010). (2011 - Current Contents). ISSN 0884-2914.

Ohlasy:

[1.1] FALE, S. - LIKHITE, A. - BHATT, J. The Wear Behavior of In-Situ Al-AlN Metal Matrix Composites. In TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS. ISSN 0972-2815, DEC 2014, vol. 67, no. 6, p. 841-849., WOS

[1.1] SUN, Y.F. - LYU, Y.Z. - JIANG, A.R. - ZHAO, J.Y. Fabrication and characterization of aluminum matrix fly ash cenosphere composites using different stir casting routes. In JOURNAL OF MATERIALS RESEARCH. ISSN 0884-2914, JAN 28 2014, vol. 29, no. 2, p. 260-266., WOS

[1.1] YANG, W.W. - GUO, Z.M. - GUO, L.C. - CAO, H.Q. - LUO, J. - YE, A.P. In situ fabrication and properties of AlN dispersion strengthened 2024 aluminum alloy. In INTERNATIONAL JOURNAL OF MINERALS METALLURGY AND MATERIALS. ISSN 1674-4799, DEC 2014, vol. 21, no. 12, p. 1228-1232., WOS

[1.1] ZHOU, Y. - ZHAO, N.Q. - SHI, C.S. - LIU, E.Z. - DU, X.W. - HE, C.N. In-situ processing and aging behaviors of MgAl<sub>2</sub>O<sub>4</sub> spinel whisker reinforced 6061Al composite. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, MAR 26 2014, vol. 598, p. 114-121., WOS

ADCA159 ZOLLINGER, J. - LAPIN, Juraj - DALOZ, D. - COMBEAU, H. Influence of oxygen on solidification behaviour of cast TiAl-based alloys. In *Intermetallics*, 2007, vol. 15, no.10, p.1343-1350. ISSN 0966-9795.

Ohlasy:

[1.1] CEGAN, Tomas - CAGALA, Michal - KURSA, Miroslav - KAWULOK, Petr - RUSZ, Stanislav - JURICA, Jan - VONTOROVA, Jirina. EFFECT OF Ti<sub>2</sub>AlC PARTICLES ON THE MICROSTRUCTURE AND ELEVATED-TEMPERATURE-DEFORMATION PROPERTIES OF gamma-TiAl ALLOYS. In MATERIALI IN TEHNOLOGIJE. ISSN 1580-2949, NOV-DEC 2014, vol. 48, no. 6, p. 831-835., WOS

[1.1] CEGAN, Tomas - KURSA, Miroslav - KONECNA, Katerina - SMETANA, Bedrich - ZLA, Simona - MATEJKA, Vlastimil - ZALUDOVA, Monika. EFFECT OF YTTRIUM ON OXYGEN CONTENT AND MICROSTRUCTURE OF TI-AL INTERMETALLICS. In 21ST INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS

(METAL 2012). 2012, p. 1430-1436., WOS

[1.1] CEGAN, T. - KURSA, M. - KONECNA, K. - PETLAK, D. EFFECT OF ANNEALING ON MICROSTRUCTURE AND PROPERTIES OF YTTRIUM ALLOYED INTERMETALLICS Ti-47Al. In 21ST INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS (METAL 2012). 2012, p. 1437-1443., WOS

[1.1] DING, Hongsheng - NIE, Ge - CHEN, Ruirun - GUO, Jingjie - FU, Hengzhi. Directional solidification of TiAl-W-Si alloy by electromagnetic confinement of melt in cold crucible. In INTERMETALLICS. ISSN 0966-9795, DEC 2012, vol. 31, p. 264-273., WOS

[1.1] DING, Hongsheng - NIE, Ge - CHEN, Ruirun - GUO, Jingjie - FU, Hengzhi. Influence of oxygen on microstructure and mechanical properties of directionally solidified Ti-47Al-2Cr-2Nb alloy. In MATERIALS & DESIGN. ISSN 0261-3069, OCT 2012, vol. 41, p. 108-113., WOS

[1.1] CHENG, Jun - YANG, Jun - ZHANG, Xinghua - ZHONG, Hong - MA, Jiqiang - LI, Fei - FU, Licai - BI, Qinling - LI, Jinshan - LIU, Weimin. High temperature tribological behavior of a Ti-46Al-2Cr-2Nb intermetallics. In INTERMETALLICS. ISSN 0966-9795, DEC 2012, vol. 31, p. 120-126., WOS

[1.1] CHENG, X. - SUN, X. D. - YUAN, C. - GREEN, N. R. - WITHEY, P. A. An investigation of a TiAlO based refractory slurry face coat system for the investment casting of Ti-Al alloys. In INTERMETALLICS. ISSN 0966-9795, OCT 2012, vol. 29, p. 61-69., WOS

[1.1] CHENG, X. - YUAN, C. - BLACKBURN, S. - WITHEY, P. A. Influence of Al<sub>2</sub>O<sub>3</sub> concentration in yttria based face coats for investment casting Ti-45Al-2Mn-2Nb-0.2TiB alloy. In MATERIALS SCIENCE AND TECHNOLOGY. ISSN 0267-0836, NOV 2014, vol. 30, no. 14, p. 1758-1764., WOS

[1.1] CHENG, X. - YUAN, C. - SHEVCHENKO, D. - WITHEY, P. The influence of mould pre-heat temperature and casting size on the interaction between a Ti-46Al-8Nb-1B alloy and the mould comprising an Al<sub>2</sub>O<sub>3</sub> face coat. In MATERIALS CHEMISTRY AND PHYSICS. ISSN 0254-0584, AUG 14 2014, vol. 146, no. 3, p. 295-302., WOS

[1.1] KARTAVYKH, A.V. - ASNIS, E.A. - PISKUN, N.V. - STATKEVICH, I.I. - GORSHENKOV, M.V. - TCHERDYNTSEV, V.V. Lanthanum hexaboride as advanced structural refiner/getter in TiAl-based refractory intermetallics. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, MAR 5 2014, vol. 588, p. 122-126., WOS

[1.1] LIN, X.D. - XUE, X.Y. - ZHONG, H. - ZHANG, T.B. - LI, J.S. Interface Reaction between Ceramic Moulds and High Nb-TiAl Alloys. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, AUG 2013, vol. 42, no. 8, p. 1568-1571., WOS

[1.1] SCHWERDTFEGGER, Jan - KOERNER, Carolin. Selective electron beam melting of Ti-48Al-2Nb-2Cr: Microstructure and aluminium loss. In INTERMETALLICS. ISSN 0966-9795, JUN 2014, vol. 49, p. 29-35., WOS

[1.1] WANG LIGANG - ZHENG LIJING - CUI RENJIE - YANG LILI - ZHANG HU. Microstructure and mechanical properties of cast Ti-47Al-2Cr-2Nb alloy melted in various crucibles. In CHINA FOUNDRY. ISSN 1672-6421, FEB 2012, vol. 9, no. 1, p. 48-52., WOS

[1.1] WANG, P.Y. - LI, H.J. - QI, L.H. - ZENG, X.H. - ZUO, H.S. Synthesis of Al-TiAl<sub>3</sub> compound by reactive deposition of molten Al droplets and Ti

- powders. In PROGRESS IN NATURAL SCIENCE-MATERIALS INTERNATIONAL. ISSN 1002-0071, APR 2011, vol. 21, no. 2, p. 153-158., WOS
- [1.1] WU, Z. - HU, R. - ZHANG, T.B. - ZHOU, H. - KOU, H.C. - LI, J.S. EFFECT OF OXYGEN ON MICROSTRUCTURE AND PHASE TRANSFORMATION OF HIGH Nb CONTAINING TiAl ALLOYS. In ACTA METALLURGICA SINICA. ISSN 0412-1961, NOV 11 2013, vol. 49, no. 11, SI, p. 1381-1386., WOS
- [1.1] XIAO, Z.X. - ZHENG, L.J. - YAN, J. - YANG, L.L. - ZHANG, H. Lamellar orientations and growth directions of beta dendrites in directionally solidified Ti-47Al-2Cr-2Nb alloy. In JOURNAL OF CRYSTAL GROWTH. ISSN 0022-0248, JUN 1 2011, vol. 324, no. 1, p. 309-313., WOS
- [1.1] XU, Zengshi - SHI, Xiaoliang - ZHANG, Qiaoxin - ZHAI, Wenzheng - YAO, Jie - CHEN, Long - ZHU, Qingshuai - XIAO, Yecheng. High-Temperature Tribological Performance of Ti<sub>3</sub>SiC<sub>2</sub>/TiAl Self-Lubricating Composite Against Si<sub>3</sub>N<sub>4</sub> in Air. In JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE. ISSN 1059-9495, JUN 2014, vol. 23, no. 6, p. 2255-2264., WOS
- [1.1] XU, Zengshi - SHI, Xiaoliang - WANG, Mang - ZHAI, Wenzheng - YAO, Jie - SONG, Siyuan - ZHANG, Qiaoxin. Effect of Ag and Ti<sub>3</sub>SiC<sub>2</sub> on Tribological Properties of TiAl Matrix Self-lubricating Composites at Room and Increased Temperatures. In TRIBOLOGY LETTERS. ISSN 1023-8883, MAR 2014, vol. 53, no. 3, p. 617-629., WOS
- [1.1] YAN JIE - ZHENG LIJING - XIAO ZHIXIA - YANG LILI - ZHANG HU. Primary Solidification Phase and Lamellar Orientation in Directionally Solidified Ti-45Al-7Nb Alloy. In CHINESE JOURNAL OF AERONAUTICS. ISSN 1000-9361, JUN 2012, vol. 25, no. 3, p. 489-492., WOS
- [1.1] ZHANG, H.R. - TANG, X.X. - ZHOU, C.G. - ZHANG, H. - ZHANG, S.W. Comparison of directional solidification of gamma-TiAl alloys in conventional Al<sub>2</sub>O<sub>3</sub> and novel Y<sub>2</sub>O<sub>3</sub>-coated Al<sub>2</sub>O<sub>3</sub> crucibles. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. ISSN 0955-2219, MAY 2013, vol. 33, no. 5, p. 925-934., WOS
- [1.1] ZHANG, Y. - LIU, G.H. - LI, X.Z. - CHEN, R.R. - SU, Y.Q. - GUO, J.J. - FU, H.Z. EFFECTS OF GROWTH RATE ON PRIMARY PHASE AND MICROSTRUCTURES OF DIRECTIONALLY SOLIDIFIED Ti-46Al-2Cr-2Nb ALLOY. In ACTA METALLURGICA SINICA. ISSN 0412-1961, NOV 11 2013, vol. 49, no. 11, SI, p. 1374-1380., WOS
- [1.1] ZHANG, Y. - LI, X.Z. - LIU, G.H. - SU, Y.Q. - GUO, J.J. - FU, H.Z. DEPENDENCE OF PRIMARY PHASE AND ITS GROWTH DIRECTION ON SOLIDIFICATION PROCESS IN DIRECTIONALLY SOLIDIFIED Ti-46Al-2Cr-2Nb ALLOY. In ACTA METALLURGICA SINICA. ISSN 0412-1961, SEP 11 2013, vol. 49, no. 9, p. 1061-1068., WOS
- [1.1] ZHONG, Hong - YANG, Yanlong - LI, Jinshan - WANG, Jun - ZHANG, Tiebang - LI, Sheng - ZHANG, Ji. Influence of oxygen on microstructure and phase transformation in high Nb containing TiAl alloys. In MATERIALS LETTERS. ISSN 0167-577X, SEP 15 2012, vol. 83, p. 198-201., WOS
- [1.2] Kartavykh, A.V. Electron microscopy of the primary microstructure of rapidly solidified Ti-46Al-8Nb alloy. In Russian Metallurgy (Metally). ISSN 0036-0295, 2011, vol. 2011, no. 1, pp. 72-77., SCOPUS

[1.2] YANG, Y.L. - LI, J.S. - ZHONG, H. - ZHANG, T.B. - KOU, H.C. - HU, R. - CHANG, H. Influence of oxygen on the solidification behavior of high-Nb TiAl alloys. In Ti 2011 Proceedings of the 12th World Conference on Titanium, 2012, 2, pp. 1478-1480., SCOPUS

**ADCB Scientific papers in foreign journals registered in Current Contents Connect without IF (non-impacted)**

ADCB01 LAPIN, Juraj - GABALCOVÁ, Zuzana - PELACHOVÁ, Tatiana - BAJANA, Otto. Microstructure and mechanical properties of a cast intermetallic Ti-46Al-8Ta alloy. In *Materials Science Forum*, 2010, vols.638-642, p.1368-1373. ISSN 0255-5476.

Ohlasy:

[1.1] BACHE, M.R. - MORGANS, C.C. Domestic object damage and fatigue behaviour of an advanced gamma TiAl alloy. In INTERMETALLICS. ISSN 0966-9795, JUN 2011, vol. 19, no. 6, SI, p. 782-786., WOS

[1.1] BONDAR, A... .A... - WITUSIEWICZ, V... .T... - HECHT, U... - REMEZ, M... .V... - VOBLIKOV, V... .M... - TSYGANENKO, N... .I... - YEVICH, Y.a. .I... - PODREZOV, Y.u. .M... - VELIKANOVA, T... .Y.a. STRUCTURE AND PROPERTIES OF TITANIUM-ALUMINUM ALLOYS DOPED WITH NIOBIUM AND TANTALUM. In POWDER METALLURGY AND METAL CERAMICS. ISSN 1068-1302, OCT 2011 2011, vol. 50, no. 7-8, p. 397-415., WOS

[1.1] SEO, D.Y. - SAWATZKY, T. - SAARI, H. - KIM, D.J. - AU, P. - SEOK, C.S. The effect of microstructure on creep behavior of a powder metallurgy (PM) beta gamma alloy. In JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY. ISSN 1738-494X, JUL 2012, vol. 26, no. 7, p. 2009-2013., WOS

[1.1] VOJTECH, D... - POPELA, T... - HAMACEK, J... - KUETZENDOERFER, J... The influence of tantalum on the high temperature characteristics of lamellar gamma + alpha 2 titanium aluminide. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, NOV 15 2011 2011, vol. 528, no. 29-30, p. 8557-8564., WOS

[3] THOMAS, M. – BACOS, M.-P. Processing and Characterization of TiAl-based Alloys: Towards an Industrial Scale. In *AerospaceLab Journal*, Issue 3, High Temperature Materials (nov.), 2011, s. 1-11.

[4] STANEKOVÁ, H. Microstructural stability of Ti-46Al-8Ta during creep. In *Materials Engineering/ Materiálové inžinierstvo*. ISSN 1335-0803, 2011, vol. 18, no. 1, s. 11-15.

**ADD ADD**

ADD01 LAPIN, Juraj - MAREČEK, Juraj - KURSA, M. Effect of heat treatments on the microstructure and mechanical properties of directionally solidified multiphase intermetallic Ni-Al-Cr-Ta-Mo-Zr alloy. In *Kovové materiály*, 2006, vol. 44, no.1, p. 1-11. (0.973 - IF2005). (2006 - Current Contents). ISSN 0023-432X.

Ohlasy:

[1.1] ZHOU, S. H. - WANG, Y. - CHEN, L. -Q. - LIU, Z. -K. - NAPOLITANO, R. E. Solution-based thermodynamic modeling of the Ni-Al-Mo system using first-principles calculations. In CALPHAD-COMPUTER



**ADDA Scientific papers in domestic journals registered in Current Contents Connect with IF (impacted)**

- ADDA01     BESTERCI, Michal - ŠLESÁR, Milan - IVAN, Jozef - ZBIRAL, Johannes.  
Mikroštruktúrne charakteristiky materiálu Pt-Y<sub>2</sub>O<sub>3</sub> = Microstructural characteristics of Pt-Y<sub>2</sub>O<sub>3</sub>. In *Kovové materiály*, 1997, roč. 35, č. 2, s. 139-143. ISSN 0023-432X.  
Ohlasy:  
[2.1]     Li, JN., Yu, HJ., Chen, CZ., Li, W.: KOVOVE MATERIALY-METALLIC MATERIALS, Vol. 50, 2012, Iss. 3, p. 169-175, WOS
- ADDA02     GABALCOVÁ, Zuzana - LAPIN, Juraj. Estimation of high temperature phase equilibria in directionally solidified intermetallic Ti-45.9Al-8Nb alloy. In *Kovové materiály*, 2007, roč. 45, s.231-240. (1.138 - IF2006). (2007 - Current Contents, WOS, SCOPUS). ISSN 0023-432X.  
Ohlasy:  
[1.1]     LIU, Guohuai - LI, Xinzhong - SU, Yanqing - LIU, Dongmei - GUO, Jingjie - FU, Hengzhi. Microstructure, microsegregation pattern and the formation of B2 phase in directionally solidified Ti-46Al-8Nb alloy. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, 2012, vol. 541, no., pp. 275., WOS
- ADDA03     GONDÁR, Ernest - ROŠKO, Miroslav - ZEMÁNKOVÁ, Milina. Study of Depth Profile of Identification Cracks in Silicon Nitride. In *Kovové materiály*, 2005, roč. 43, č. 2, s. 124-133. (2005 - Current Contents). ISSN 0023-432X.  
Ohlasy:  
[1.1]     CSEHOVA, E. - ANDREJOVSKA, J. - LIMPICHAIPANIT, A. - DUSZA, J. - TODD, R. Hardness and indentation load-size effect in Al<sub>2</sub>O<sub>3</sub>-SiC nanocomposites. In KOVOVE MATERIALY-METALLIC MATERIALS. ISSN 0023-432X, 2011, vol. 49, no. 2, p. 119-124., WOS
- ADDA04     HAKL, J. - VLASÁK, T. - LAPIN, Juraj. Creep behaviour and microstructural stability of cast nickel based superalloy IN 792 5A. In *Kovové materiály*, 2007, vol. 45, no. 4, p. 177-188. (1.138 - IF2006). (2007 - Current Contents, WOS, SCOPUS). ISSN 0023-432X.  
Ohlasy:  
[1.1]     SMID, M. - PETRENEC, M. - POLAK, J. - OBRTLÍK, K. - CHLUPOVA, A. Analysis of the Effective and Internal Cyclic Stress Components in the Inconel Superalloy Fatigued at Elevated Temperature. In EURO SUPERALLOYS 2010. ISSN 1022-6680, 2011, vol. 278, p. 393-398., WOS
- ADDA05     IŽDINSKÝ, Karol - IVAN, Jozef - ZEMÁNKOVÁ, Milina - CSUBA, Adrian - MINÁR, Pavol - IŽDINSKÁ, Zita. Microstructure of air plasma-sprayed NiAl coating isothermally exposed at 850 °C for 6 minutes. In *Kovové materiály*, 2004, roč. 42, č. 5, s. 316-328. ISSN 0023-432X.

Ohlasy:

[2.2] BREZINOVÁ, J. - GUZANOVÁ, A. - MAMUZIČ, I. Study of wear resistance of coatings deposited by High Velocity Oxygen Fuel (HVOF) technology. In *Acta Metallurgica Slovaca*, 2012, vol. 18, no. 1, p. 20-27., SCOPUS

ADDA06 IŽDINSKÝ, Karol - DUFEK, Juraj - IVAN, Jozef - ZEMÁNKOVÁ, Milina - MINÁR, Pavol - IŽDINSKÁ, Zita. Microstructure of air plasma-sprayed NiAl coating. In *Kovové materiály*, 2003, roč. 41, č.6, s.365-376. ISSN 0023-432X.

Ohlasy:

[2.2] BREZINOVÁ, J. - GUZANOVÁ, A. - MAMUZIČ, I. Study of wear resistance of coatings deposited by High Velocity Oxygen Fuel (HVOF) technology. In *Acta Metallurgica Slovaca*, 2012, vol. 18, no. 1, p. 20-27., SCOPUS

ADDA07 IŽDINSKÝ, Karol - SENČEKOVÁ, Lucia - SIMANČÍK, František - NOSKO, Martin - SCHOBERTH, A. Structure of Mo/Mo silicide composites infiltrated with molten Ni and subsequently compacted by HIP. In *Kovové materiály*, 2013, vol.51, no.6, pp.327-332. (0.687 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0023-432X.

Ohlasy:

[1.1] SEBO, P. - SVEC, P., Sr. - ZEMANKOVA, M. - SVEC, P., Jr. - JANICKOVIC, D. - STEFANIK, P. Joining of Mo and MoSi<sub>2</sub> and their interaction with nickel. In *KOVOVE MATERIALY-METALLIC MATERIALS*. ISSN 0023-432X, 2014, vol. 52, no. 6, p. 321-327., WOS

ADDA08 KAVECKÝ, Štefan - ŠTEFÁNIK, Pavol - ŠEBO, Pavol. Influence of K<sub>2</sub>ZrF<sub>6</sub> on the infiltration of carbon fibre tows by aluminium. In *Kovové materiály*, 1998, roč. 36, s.358-366. ISSN 0023-432X.

Ohlasy:

[1.2] CHEN, Weiping - TAN, Youhui. Wettability of aluminum alloy melt with ceramic reinforcements and its control methods. In *Tezhong Zhuzao Ji Youse Hejin/Special Casting and Nonferrous Alloys*. ISSN 10012249, 2013-04-01, 33, 4, pp. 316-319., SCOPUS

ADDA09 KOVÁČIK, Jaroslav - SIMANČÍK, František. Comparison of zinc and aluminium of foam behaviour. In *Kovové materiály*, 2004, roč. 42, č. 2, s. 79-90. ISSN 0023-432X.

Ohlasy:

[1.1] CHETHAN, A. - GARCIA-MORENO, F. - WANDERKA, N. - MURTY, B.S. - BANHART, J. Influence of oxides on the stability of zinc foam. In *JOURNAL OF MATERIALS SCIENCE*. ISSN 0022-2461, DEC 2011, vol. 46, no. 24, p. 7806-7814., WOS

[1.1] STRANO, M. - VILLA, A. - MUSSI, V. Design and manufacturing of anti-intrusion bars made of aluminium foam filled tubes. In *INTERNATIONAL JOURNAL OF MATERIAL FORMING*. ISSN 1960-6206, MAR 2013, vol. 6, no. 1, p. 153-164., WOS

ADDA10     KOVÁČIK, Jaroslav - EMMER, Štefan - BIELEK, Jozef. Thermal properties of Cu-graphite composite. In *Kovové materiály*, 2004, roč. 42, č.6, s.365-374. ISSN 0023-432X.

Ohlasy:

[1.1]     SMIRNOV, I.A. - SMIRNOV, B.I. - ORLOVA, T.S. - WLOSEWICZ, D. - HACKEMER, A. - MISIOREK, H. - MUCHA, J. - JEZOWSKI, A. - RAMIREZ-RICO, J. - MARTINEZ-FERNANDEZ, J. Heat capacity of Bio-SiC and SiC/Si ecoceramics prepared from white eucalyptus, beech, and sapele tree wood. In *PHYSICS OF THE SOLID STATE*. ISSN 1063-7834, FEB 2013, vol. 55, no. 2, p. 454-460., WOS

ADDA11     KÚDELA, Stanislav - PAWELEK, Andrzej - RANACHOWSKI, Z. - PIATKOWSKI, Andrzej - KÚDELA, Stanislav, Jr. - RANACHOWSKI, Przemyslaw. Effect of Al alloying on the Hall-Petch strengthening and AE in compressed Mg-Li-Al alloys before and after HPT processing. In *Kovové materiály*, 2011, roč. 49, s.271-277. (0.471 - IF2010). (2011 - Current Contents, SCOPUS). ISSN 0023-432X.

Ohlasy:

[5]       SRINIVASARAO, B. - ZHILYAEV, A.P. - GUTIERREZ-URRUTIA, I. - PEREZ-PRADO, M.T. Stabilization of metastable phases in Mg-Li alloys by high-pressure torsion. In *SCRIPTA MATERIALIA*. ISSN 1359-6462, APR 2013, vol. 68, no. 8, p. 583-586., WOS

ADDA12     KÚDELA, Stanislav - SCHWEIGHOFER, Augustín. Study of nitridation process of aluminium-magnesium alloys. In *Kovové materiály*, 1979, roč. 17, č.6, s.724-737. ISSN 0023-432X.

Ohlasy:

[1.1]     KENT, D. - DRENNAN, J. - SCHAFFER, G.B. A morphological study of nitride formed on Al at low temperature in the presence of Mg. In *ACTA MATERIALIA*. ISSN 1359-6454, APR 2011, vol. 59, no. 6, p. 2469-2480., WOS

ADDA13     LAPIN, Juraj - GEBURA, Marek - PELACHOVÁ, Tatiana - NAZMY, M. Coarsening kinetics of cuboidal gamma precipitates in single crystal nickel base superalloy CMSX-4. In *Kovové materiály*, 2008, roč. 46, p.313-322. (1.345 - IF2007). (2008 - Current Contents, SCOPUS). ISSN 0023-432X.

Ohlasy:

[1.1]     LOPEZ-GALILEA, I. - HUTH, S. - THEISEN, W. - FOCKENBERG, T. - CHAKRABORTY, S. Effect of high pressure and high temperature on the microstructural evolution of a single crystal Ni-based superalloy. In *JOURNAL OF MATERIALS SCIENCE*. ISSN 0022-2461, JAN 2013, vol. 48, no. 1, p. 348-358., WOS

[1.1]     SHIMIZU, Makoto - KONNO, Kiyotaka - IGUCHI, Fumitada - YUGAMI, Hiroo. Fabrication of quasi-periodic surface microcavities by selective etching of self-organized superalloys for high-temperature photonics. In *APPLIED PHYSICS LETTERS*. ISSN 0003-6951, NOV 26 2012, vol. 101, no. 22., WOS

[1.2]     SHIMIZU, Makoto - KOBAYASHI, Hiroaki - YANAGISAWA, Kunihiko - IGUCHI, Fumitada - YUGAMI, Hiroo O. Practicable fabrication technology of high-temperature photonic materials for thermophotovoltaic systems. In *Optics InfoBase Conference Papers*, 2013-01-01, pp., SCOPUS

- ADDA14     LAPIN, Juraj. Comparative study of creep of cast Ti-46Al-2W-0.5Si and Ti-45Al-2W-0.6Si-0.7B alloys. In *Kovové materiály*, 2006, vol. 44, no.1, p. 57-64. (0.973 - IF2005). (2006 - Current Contents). ISSN 0023-432X.  
Ohlasy:  
[1.1]     DING, R.G. - JONES, I.P. - CHIU, Y.L. - CHEN, R.R. Microstructure and mechanical property of directionally solidified Ti-46Al-0.5W-0.5Si alloys with and without Gd. In INTERMETALLICS. ISSN 0966-9795, JAN 2012, vol. 20, no. 1, p. 123-134., WOS
- ADDA15     LAPIN, Juraj - GEBURA, Marek - BAJANA, Otto - PELACHOVÁ, Tatiana - NAZMY, M. Effect of size and volume fraction of cuboidal  $\gamma'$  precipitates on mechanical properties of single crystal nickel-based superalloy CMSX-4. In *Kovové materiály*, 2009, roč. 47, s.129 -138. (2009 - Current Contents, WOS, SCOPUS). ISSN 0023-432X.  
Ohlasy:  
[1.1]     MALCHARCZIKOVA, J. - CHMELIK, F. - PESICKA, J. - KURSA, M. - POHLUDKA, M. NON-ALLOYED Ni3Al BASED ALLOYS - PREPARATION AND EVALUATION OF MECHANICAL PROPERTIES. In METALURGIJA. ISSN 0543-5846, JUL-SEP 2013, vol. 52, no. 3, p. 309-312., WOS
- ADDA16     LAPIN, Juraj - GABALCOVÁ, Zuzana - BAJANA, Otto - DALOZ, D. Effect of heat treatments on the microstructure and mechanical properties of a cast intermetallic Ti-44Al-4Nb-4Zr-0.2Si-0.3B alloy. In *Kovové materiály*, 2006, roč. 44, p.297-306. (0.973 - IF2005). (2006 - Current Contents). ISSN 0023-432X.  
Ohlasy:  
[1.2]     LIANG, Y. F. - SHEN, Z. Z. - WANG, H. - ZHANG, L. Q. - XU, X. J. - XU, Y. - HAO, G. J. - LIN, J. P. Manufacturing and properties of high Nb-TiAl sheet materials. In TMS Annual Meeting, 2014-01-01, 2014-February, pp. 83-86., SCOPUS
- ADDA17     LAPIN, Juraj - ONDRŮŠ, Ľuboš. Formation of ceramic particles in intermetallic Ti-46Al-2W-0.5Si alloy during directional solidification. In *Kovové materiály*, 2002, vol. 40, no. 3, p. 161-170. (0.343 - IF2001). ISSN 0023-432X.  
Ohlasy:  
[1.1]     CUI YONGSHUANG - TANG XIAOXIA - GAO MING - WU LIANGCE - ZHANG HU. Interaction between TiAl Alloy and Diacetatozirconic Acid-Bonded Ytria Mould under High-Temperature and Long-Term. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, JUL 2012, vol. 41, no. 7, p. 1171-1175., WOS  
[1.1]     CUI, R. J. - TANG, X. X. - GAO, M. - ZHANG, H. - GONG, S. K. Microstructure and composition of cast Ti-47Al-2Cr-2Nb alloys produced by yttria crucibles. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, APR 15 2012, vol. 541, p. 14-21., WOS  
[1.1]     DU, Yujun - SHEN, Jun - XIONG, Yilong - LIU, Zhenwei - ZHAO, Qian - FU, Hengzhi. Determining the Effects of Growth Velocity on Microstructure and Mechanical Properties of Ti-47Al Alloy using

Electromagnetic Confinement and Directional Solidification. In JOM. ISSN 1047-4838, SEP 2014, vol. 66, no. 9, p. 1914-1922., WOS

- ADDA18     LAPIN, Juraj - PELACHOVÁ, Tatiana - DOMÁNKOVÁ, M. - DALOZ, D. - NAZMY, M. Influence of long-term creep exposure on the microstructure stability of cast Ti-46Al-2W-0.5Si alloy for turbine blades. In *Kovové materiály*, 2007, roč. 45, s.121-128. (1.138 - IF2006). (2007 - Current Contents, WOS, SCOPUS). ISSN 0023-432X.

Ohlasy:

[1.1]     ZHOU, K. - WANG, H.P. - CHANG, J. - WEI, B. Surface tension measurement of metastable liquid Ti-Al-Nb alloys. In *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING*. ISSN 0947-8396, OCT 2011, vol. 105, no. 1, p. 211-214., WOS

- ADDA19     LAPIN, Juraj - PELACHOVÁ, Tatiana. Microstructural stability and microhardness of a cast TiAl-based alloy for turbine blade applications. In *Kovové materiály*, 2004, roč. 42, č. 3, s. 143-155. ISSN 0023-432X.

Ohlasy:

[4]       STANEKOVÁ, H. Microstructural stability of Ti-46Al-8Ta during creep. In *Materials Engineering/ Materiálové inžinierstvo*. ISSN 1335-0803, 2011, vol. 18, no. 1, s. 11-15.

- ADDA20     LAPIN, Juraj - GABALCOVÁ, Zuzana. The effect of oxygen content and cooling rate on phase transformations in directionally solidified intermetallic Ti-46Al-8Nb alloy. In *Kovové materiály*, 2008, vol. 46, no. 4, p.185-195. (1.345 - IF2007). (2008 - Current Contents, SCOPUS). ISSN 0023-432X.

Ohlasy:

[1.1]     BONDAR, A.A. - WITUSIEWICZ, V.T. - HECHT, U. - REMEZ, M.V. - VOBLIKOV, V.M. - TSYGANENKO, N.I. - YEVICH, Y.I. - PODREZOV, Y.M. - VELIKANOVA, T.Y. STRUCTURE AND PROPERTIES OF TITANIUM-ALUMINUM ALLOYS DOPED WITH NIOBIUM AND TANTALUM. In *POWDER METALLURGY AND METAL CERAMICS*. ISSN 1068-1302, OCT 2011, vol. 50, no. 7-8, p. 397-415., WOS

[1.1]     CEGAN, Tomas - KURSA, Miroslav - KONECNA, Katerina - SMETANA, Bedrich - ZLA, Simona - MATEJKA, Vlastimil - ZALUDOVA, Monika. EFFECT OF YTTRIUM ON OXYGEN CONTENT AND MICROSTRUCTURE OF TI-AL INTERMETALLICS. In *21ST INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS (METAL 2012)*, 2012, vol., no., pp. 1430., WOS

[1.1]     YAN, Erhu - LI, Xinzong - LIU, Dongmei - SU, Yanqing - GUO, Jingjie - FU, Hengzhi. A skull-aided technique for directional solidification of Nb-41Ni-40Ti hydrogen permeable alloy. In *JOURNAL OF CRYSTAL GROWTH*. ISSN 0022-0248, APR 1 2014, vol. 391, p. 78-84., WOS

[1.2]     YANG, Y.L. - LI, J.S. - ZHONG, H. - ZHANG, T.B. - KOU, H.C. - HU, R. - CHANG, H. Influence of oxygen on the solidification behavior of high-Nb TiAl alloys. In *Ti 2011 Proceedings of the 12th World Conference on Titanium*, 2012, 2, pp. 1478-1480., SCOPUS

[3]       ČEGAN, T.: Vliv krystalizačních procesů na strukturu a vlastnosti intermetalických sloučenin na bázi Ti-Al. [Dizertačná práce]. Ostrava : VŠB-Technická univerzita Ostrava, 2013, 165 s.

ADDA21     LAPIN, Juraj - GABALCOVÁ, Zuzana - BAJANA, Otto. The effect of microstructure on mechanical properties of directionally solidified intermetallic Ti-46Al-8Nb alloy. In *Kovové materiály*, 2009, roč. 47, s.159-167. (2009 - Current Contents, WOS, SCOPUS). ISSN 0023-432X.

Ohlasy:

[1.1]     YANG, J.R. - CHEN, R.R. - DING, H.S. - GUO, J.J. - HAN, J.C. - FU, H.Z. Heat transfer and macrostructure formation of Nb containing TiAl alloy directionally solidified by square cold crucible. In *INTERMETALLICS*. ISSN 0966-9795, NOV 2013, vol. 42, p. 184-191., WOS

[1.1]     ZAMBALDI, C... - ROTERS, F... - RAABE, D... Analysis of the plastic anisotropy and pre-yielding of ( $\gamma/\alpha(2)$ )-phase titanium aluminide microstructures by crystal plasticity simulation. In *INTERMETALLICS*. ISSN 0966-9795, JUN 2011 2011, vol. 19, no. 6, SI, p. 820-827., WOS

ADDA22     SIMANČÍK, František - JERZ, Jaroslav - KOVÁČIK, Jaroslav - MINÁR, Pavol. Aluminium foam - a new light - weight structural material. In *Kovové materiály*, 1997, roč. 35, č. 4, s. 265-277.

Ohlasy:

[1.1]     HASHIM, U. R. - JUMAHAT, A. - ISMAIL, M. H. - RAZALI, R. N. M. Fabrication and characterisation of carbon fibre reinforced polymer rods with aluminium foam core. In *MATERIALS RESEARCH INNOVATIONS*. ISSN 1432-8917, DEC 2014, vol. 18, p. 204-208., WOS

[1.1]     MENDEZ, F.J. - RIVERO-PRINCE, S. - GARCIA, A. - ALBORNOZ, A. - GUERRA, J. - VILLASANA, Y. - BRITOA, J.L. FORMATION OF SUPERFICIAL ALUMINA IN ALUMINUM SPONGES MANUFACTURED BY SINTERING AND DISSOLUTION PROCESS: EFFECT OF THE SINTERIZATION TIME. In *ACTA MICROSCOPICA*. ISSN 0798-4545, 2012, vol. 21, no. 1, p. 46-54., WOS

[1.1]     PAULIN, I. - SUSTARSIC, B. - KEVORKIJAN, V. - SKAPIN, S.D. - JENKO, M. SYNTHESIS OF ALUMINIUM FOAMS BY THE POWDER METALLURGY PROCESS: COMPACTING OF PRECURSORS. In *MATERIALI IN TEHNOLOGIJE*. ISSN 1580-2949, JAN-FEB 2011, vol. 45, no. 1, p. 13-19., WOS

[1.2]     CUIYUN, D. - GUANG, C. - XINBANG, X. - PEISHENG, L. Sound absorption characteristics of a high-temperature sintering porous ceramic material. In *Applied Acoustics*, 2012, 73, 9, pp. 865-871., SCOPUS

[1.2]     Del Val, J. - Riveiro, A. - Comesaña, R. - Lusquiños, F. - Boutinguiza, M. - Quintero, F. - Pou, J. Production of aluminum foams by laser cladding. In *30th International Congress on Applications of Lasers and Electro-Optics, ICALEO 2011*, 2011, pp. 1287-1293., SCOPUS

[1.2]     DUARTE, Isabel M P - OLIVEIRA, Mónica Stuck A - GARCÍA-MORENO, Francisco - MUKHERJEE, Manas - BANHART, John. Foaming of AA 6061 using multiple pieces of foamable precursor. In *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. ISSN 09277757, 2013-12-05, 438, pp. 47-55., SCOPUS

[1.2]     Seifi, S.M. - Tabatabaei, Y. - Mirbagheri, S.M.H. - Tafteh, R. Effects of addition of SiC and TiB<sub>2</sub> particles on structural and mechanical properties of PM Al-Si foams. In *Materials Science and Technology Conference and Exhibition*

2011, MS and T'11. ISBN 978-161839261-9, 2011, vol. 1, pp. 859-866., SCOPUS

- ADDA23     ŠEBO, Pavol - ŠTEFÁNIK, Pavol. Effect of In Addition on Sn-Ag Solder, its Wetting and Shear Strength of Copper Joints. In *Kovové materiály*, 2005, roč. 43, č. 3, s. 202-209. (2005 - Current Contents). ISSN 0023-432X.

Ohlasy:

[1.1]     CADIRLI, E. - SAHIN, M. - KAYALI, R. - ARI, M. - DURMUS, S. Dependence of electrical and thermal conductivity on temperature in directionally solidified Sn-3.5 wt% Ag eutectic alloy. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, NOV 2011, vol. 22, no. 11, p. 1709-1714., WOS

[1.1]     HODULOVA, E. - PALCUT, M. - LECHOVIC, E. - SIMEKOVA, B. - ULRICH, K. Kinetics of intermetallic phase formation at the interface of Sn-Ag-Cu-X (X = Bi, In) solders with Cu substrate. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, JUN 23 2011, vol. 509, no. 25, p. 7052-7059., WOS

[1.1]     MEYDANERI, F. - SAATCI, B. - OZDEMIR, M. Thermal, electrical, microstructure and microhardness properties of the eutectic Sn-3.5wt.%Ag alloy. In KOVOVE MATERIALY-METALLIC MATERIALS. ISSN 0023-432X, 2013, vol. 51, no. 3, p. 173-181., WOS

[1.1]     MOSER, Z. - FIMA, P. - BUKAT, K. - SITEK, J. - PSTRUS, J. - GASIOR, W. - KOSCIELSKI, M. - GANCARZ, T. Investigation of the effect of indium addition on wettability of Sn-Ag-Cu solders. In SOLDERING & SURFACE MOUNT TECHNOLOGY. ISSN 0954-0911, 2011, vol. 23, no. 1, p. 22-29., WOS

[1.1]     PSTRUS, J. Surface tension and density of liquid In-Sn-Zn alloys. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, JAN 15 2013, vol. 265, p. 50-59., WOS

[1.1]     ZHANG, Liang - HE, Cheng-wen - GUO, Yong-huan - HAN, Ji-guang - ZHANG, Yong-wei - WANG, Xu-yan. Development of SnAg-based lead free solders in electronics packaging. In MICROELECTRONICS RELIABILITY. ISSN 0026-2714, MAR 2012, vol. 52, no. 3, p. 559-578., WOS

[1.2]     KUMAR, G. - PRABHU, K.N. Wetting behavior of solders. In ASTM Special Technical Publication. ISSN 0066-0558, 2011, vol. 1530, p. 1-26., SCOPUS

- ADDA24     ZOLLINGER, J. - GABALCOVÁ, Zuzana - DALOZ, D. - LAPIN, Juraj - COMBEAU, H. Microsegregation induced microstructures in intermetallic Ti-46Al-8Nb alloy. In *Kovové materiály*, 2008, vol. 46, no. 5, pp. 291-296. (1.345 - IF2007). (2008 - Current Contents, SCOPUS). ISSN 0023-432X.

Ohlasy:

[1.1]     CUI, R. J. - TANG, X. X. - GAO, M. - ZHANG, H. - GONG, S. K. Microstructure and composition of cast Ti-47Al-2Cr-2Nb alloys produced by yttria crucibles. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, 2012, vol. 541, no., pp. 14., WOS

[1.1]     LIU, Guohuai - LI, Xinzhong - SU, Yanqing - LIU, Dongmei - GUO, Jingjie - FU, Hengzhi. Microstructure, microsegregation pattern and the formation of B2 phase in directionally solidified Ti-46Al-8Nb alloy. In

JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, 2012, vol. 541, no., pp. 275., WOS

[1.2] SU, M. - ZHENG, L. - YAN, J. - ZHANG, H. Effect of heat treatments on phase transformation and tensile properties in cast Ti-47Al-2Cr-2Nb Alloy. In High Temperature Materials and Processes, 2012, 31, 3, pp. 281-287., SCOPUS

**ADDB Scientific papers in domestic journals registered in Current Contents Connect without IF (non-impacted)**

ADDB01 LAPIN, Juraj - PELACHOVÁ, Tatiana - STANEKOVÁ, H. -

DOMÁNKOVÁ, Mária. Long-term microstructural stability of intermetallic Ti-46Al-8Ta alloy during ageing at temperatures of 700-800 °C. In *Kovové materiály*, 2010, roč. 48, s.337-343. (2010 - Current Contents). ISSN 0023-432X.

Ohlasy:

[1.1] MITORAJ, M. - GODLEWSKA, E.M. Oxidation of Ti-46Al-8Ta in air at 700 degrees C and 800 degrees C under thermal cycling conditions. In INTERMETALLICS. ISSN 0966-9795, MAR 2013, vol. 34, p. 112-121., WOS

**ADEA Scientific papers in other foreign journals not registered in Current Contents Connect with IF (impacted)**

ADEA01 KOLEŇÁK, R. - ŠEBO, Pavol - PROVAZNÍK, M. - KOLEŇÁKOVÁ, M. - ULRICH, K. Shear strength and wettability of active Sn<sub>3.5</sub>Ag<sub>4</sub>Ti(Ce,Ga) solder on Al<sub>2</sub>O<sub>3</sub> ceramics. In *Materials and Design*, 2011, vol.32, p.3997-4003. (1.694 - IF2010). ISSN 0261-3069.

Ohlasy:

[1.1] COOK, G.O. - SORENSEN, C.D. Partial Transient Liquid-Phase Bonding, Part I: A Novel Selection Procedure for Determining Ideal Interlayer Combinations, Validated Against Al<sub>2</sub>O<sub>3</sub> PTLP Bonding Experience. In METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE. ISSN 1073-5623, DEC 2013, vol. 44A, no. 13, p. 5732-5753., WOS

[1.1] CHEN, X.G. - YAN, J.C. - REN, S.C. - WANG, Q. - WEI, J.H. - FAN, G.H. Microstructure, mechanical properties, and bonding mechanism of ultrasonic-assisted brazed joints of SiC ceramics with ZnAlMg filler metals in air. In CERAMICS INTERNATIONAL. ISSN 0272-8842, JAN 2014, vol. 40, no. 1, A, p. 683-689., WOS

[1.1] LANG, F. - NAKAGAWA, H. - YAMAGUCHI, H. Soldering of non-wettable Al electrode using Au-based solder. In GOLD BULLETIN. ISSN 0017-1557, 2014, vol. 47, no. 1-2, p. 109-118., WOS

[1.1] LEINENBACH, Christian - WEYRICH, Nico - ELSENER, Hans-Rudolf - GAMEZ, Gerardo. Al<sub>2</sub>O<sub>3</sub>-Al<sub>2</sub>O<sub>3</sub> and Al<sub>2</sub>O<sub>3</sub>-Ti Solder Joints - Influence of Ceramic Metallization and Thermal Pretreatment on Joint Properties. In INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY. ISSN 1546-542X, JUL-AUG 2012, vol. 9, no. 4, p. 751-763., WOS

[1.1] TSAO, L.C. Interfacial structure and fracture behavior of 6061 Al and MAO-6061 Al direct active soldered with Sn-Ag-Ti active solder. In MATERIALS & DESIGN. ISSN 0261-3069, APR 2014, vol. 56, p. 318-324., WOS

[1.1] TSAO, L.C. Microstructural characterization and mechanical properties of microplasma oxidized TiO<sub>2</sub>/Ti joints soldered using Sn<sub>3.5</sub>Ag<sub>4</sub>Ti(Ce) active filler. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN



ELECTRONICS. ISSN 0957-4522, JAN 2014, vol. 25, no. 1, p. 233-243., WOS  
 [1.1] ZHAO, Jin - ZHANG, WeiPeng - SONG, TingTing - GAO, YuLai - ZHAI, QiJie. WETTABILITY AND INTERFACIAL MICROSTRUCTURE OF Pb-FREE Sn3.5Ag ALLOY POWDERS ON Cu SUBSTRATE. In TMS 2012 141ST ANNUAL MEETING & EXHIBITION - SUPPLEMENTAL PROCEEDINGS, VOL 2: MATERIALS PROPERTIES, CHARACTERIZATION, AND MODELING. 2012, p. 595-602., WOS  
 [1.2] JI, Hongjun - CHEN, Hao - LI, Mingyu. Microstructures and properties of alumina/copper joints fabricated by ultrasonic-assisted brazing for replacing DBC in power electronics packaging. In Proceedings of the Electronic Packaging Technology Conference, EPTC, 2014-01-01, pp. 1291-1294., SCOPUS  
 [1.2] TIAN, Wubian. Wetting and joining of structural ceramic components. In MAX Phases and Ultra-High Temperature Ceramics for Extreme Environments, 2013-12-01, pp. 460-477., SCOPUS

ADEA02 LEMOISSON, F. - FADDEN MC, S. - REBOW, M. - BROWNE, D.J. - FROYEN, L. - VOSS, D. - JARVIS, D.J. - KARTAVYKH, A. - REX, S. - HERFS, W. - GROETHE, D. - LAPIN, Juraj - BUDENKOVA, O. - ETAY, J. - FAUTRELLE, Y. The development of a microgravity experiment involving columnar to equiaxed transition for solidification of a Ti-Al based alloy. In *Materials Science Forum*, 2010, vol.649, p.17-22. ISSN 0255-5476.

Ohlasy:

[1.1] MIRIHANAGE, W.U. - DAI, H.J. - DONG, H.B. - BROWNE, D.J. Computational Modeling of Columnar to Equiaxed Transition in Alloy Solidification. In *ADVANCED ENGINEERING MATERIALS*. ISSN 1438-1656, APR 2013, vol. 15, no. 4, p. 216-229., WOS

ADEA03 NAGY, Juraj - BALOG, Martin - SIMANČÍK, František - IŽDINSKÝ, Karol - JANIČKOVIČ, Dušan - ŠVEC, Peter. Consolidation of rapidly solidified Al-based particles using equal channel angular pressing (ECAP). In *Reviews on Advanced Materials Science*, 2008, vol. 18, no. 7, p. 608-615. (1.122 - IF2007). (2008 - WOS, SCOPUS). ISSN 1606-5131.

Ohlasy:

[1.1] BIDULSKY, R. - BIDULSKA, J. - GRANDE, M.A. Response of the Cr-alloyed PM Steels on Vacuum Sintering and Heat Treatment. In *HIGH TEMPERATURE MATERIALS AND PROCESSES*. ISSN 0334-6455, OCT 2013, vol. 32, no. 5, p. 467-473., WOS

[1.1] RICHERT, M. - RICHERT, J. - HOTLOS, A. - PALKA, P. - PACHLA, W. - PEREK, M. Ag Powders Consolidated by Reciprocating Extrusion (CEC). In *NANOMATERIALS BY SEVERE PLASTIC DEFORMATION: NANOSPD5, PTS 1 AND 2*. ISSN 0255-5476, 2011, vol. 667-669, p. 145-150., WOS

ADEA04 STEIN, George Juraj - CHMÚRNY, Rudolf - ROSÍK, Vladimír. Compact vibration measuring system for in-vehicle applications. In *Measurement Science Review*, 2011, vol. 11, no. 5, p. 154-159. (0.400 - IF2010). (2011 - WOS, SCOPUS, Copernicus International). ISSN 1335-8871.

Ohlasy:

[1.1] JENA, D.P. - SINGH, M. - KUMAR, R. Radial Ball Bearing Inner Race Defect Width Measurement using Analytical Wavelet Transform of

Acoustic and Vibration Signal. In MEASUREMENT SCIENCE REVIEW. ISSN 1335-8871, 2012, vol. 12, no. 4, p. 141-148., WOS

[1.1] VENKATESH, K.A. - MATHIVANAN, N. Design of MEMS Accelerometer based Acceleration Measurement System for Automobiles. In MEASUREMENT SCIENCE REVIEW. ISSN 1335-8871, 2012, vol. 12, no. 5, p. 189-194., WOS

[1.1] VENKATESH, K.A. - MATHIVANAN, N. CAN Network Based Longitudinal Velocity Measurement Using Accelerometer and GPS Receiver for Automobiles. In MEASUREMENT SCIENCE REVIEW. ISSN 1335-8871, 2013, vol. 13, no. 3, p. 115-121., WOS

[1.2] CHELLASWAMY, C. - AKILA, V. - DINESH BABU, A. - ARASAN, N.K. Fuzzy logic based railway track condition monitoring system. In 2013 IEEE INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN COMPUTING, COMMUNICATION AND NANOTECHNOLOGY, ICE-CCN 2013, art. no. 6528503, p. 250-255., SCOPUS

**ADEB Scientific papers in other foreign journals not registered in Current Contents Connect without IF (non-impacted)**

ADEB01 BESTERCI, Michal - VELGOSOVÁ, Oksana - IVAN, Jozef - HVIŽDOŠ, Pavol - KVAČKAJ, Tibor - KULU, Priit. In situ tensile testing in SEM of Al-Al4C3 nanomaterials. In *Estonian Journal of Engineering*, 2009, vol. 15, no. 4, p. 247-254. ISSN 1736-6038.

Ohlasy:

[1.1] JAYALAKSHMI, S. - GUAN, K.C. - JOSHUA, K. - MANOJ, G. Structural, physical and mechanical properties of Mg-Al alloys processed under CO<sub>2</sub> atmosphere. In *Advanced Materials Research*, 2012, 545, pp. 247-250., WOS

[1.1] NASEEM, K. - YANG, Y. - LUO, X. - HUANG, B. - FENG, G. SEM in situ study on the mechanical behaviour of SiCf/Ti composite subjected to axial tensile load. In *Materials Science and Engineering A*, 2011, vol.528, no.13-14, 4507-4515., WOS

[1.1] SUBRAMANIAN, J. - GUAN, K.C. - KUMA, J. - GUPTA, M. Feasibility study on utilizing carbon dioxide during the processing of Mg-Al alloys. In *Journal of Materials Processing Technology*, 2011, vol.211, no.8, 1416-1422., WOS

[1.2] JAYALAKSHMI, Subramanian - DEZHI, Q. - SANKARANARAYANAN, S. - GUPTA, Manoj Manoj. Microstructure and mechanical properties of Mg-Al alloys with in situ Al<sub>4</sub>C<sub>3</sub> phase synthesised by CO<sub>2</sub> incorporation during liquid state processing. In *International Journal of Microstructure and Materials Properties*. ISSN 17418410, 2013-10-17, 8, 4-5, pp. 283-298., SCOPUS

ADEB02 GEBURA, Marek - LAPIN, Juraj. Microsegregation Induced Inhomogeneity of Coarsening of  $\gamma'$  Precipitates in a Nickel-based Single Crystal Superalloy. In *Defect and Diffusion Forum*, 2010, vols.297-301, pp.826-831. ISSN 1662-9507.

Ohlasy:

[1.1] JAHANGIRI, M.R. - ARABI, H. - BOUTORABI, S.M.A. Development of wrought precipitation strengthened IN939 superalloy. In *MATERIALS SCIENCE AND TECHNOLOGY*. ISSN 0267-0836, DEC 2012, vol. 28, no. 12, p. 1470-1478., WOS

- [1.1] KOMMEL, L. - KIMMARI, E. - VILJUS, M. - TRAKSMAA, R. - VOLOBUEVA, O. - KOMMEL, I. Phases Micromechanical Properties of Ni-base Superalloy Measured by Nanoindentation. In MATERIALS SCIENCE-MEDZIAGOTYRA. ISSN 1392-1320, 2012, vol. 18, no. 1, p. 28-33., WOS
- [1.1] SZCZOTOK, A. - CHMIELA, B. Effect of Heat Treatment on Chemical Segregation in CMSX-4 Nickel-Base Superalloy. In JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE. ISSN 1059-9495, AUG 2014, vol. 23, no. 8, p. 2739-2747., WOS

ADEB03 MARKUŠ, Štefan - NÁNÁSI, Tibor. VIBRATION OF CURVED BEAMS. In *The Shock and Vibration Digest*, 1981, vol. 13, no. 4, p.3-14. ISSN 0583-1024.

Ohlasy:

- [1.1] GASMI, A. - JOSEPH, P.F. - RHYNE, T.B. - CRON, S.M. Closed-form solution of a shear deformable, extensional ring in contact between two rigid surfaces. In INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES. ISSN 0020-7683, MAR 1 2011, vol. 48, no. 5, p. 843-853., WOS
- [1.1] KANG, B. - RIEDEL, C.H. Coupling of In-Plane Flexural, Tangential, and Shear Wave Modes of a Curved Beam. In JOURNAL OF VIBRATION AND ACOUSTICS-TRANSACTIONS OF THE ASME. ISSN 1048-9002, FEB 2012, vol. 134, no. 1., WOS
- [1.1] KANG, B. - RIEDEL, C.H. On the validity of planar, thick curved beam models derived with respect to centroidal and neutral axes. In WAVE MOTION. ISSN 0165-2125, JAN 2012, vol. 49, no. 1, p. 1-23., WOS
- [1.1] KANG, H.J. - ZHAO, Y.Y. - ZHU, H.P. Stability of Cable-Arch Structure. In PROGRESS IN INDUSTRIAL AND CIVIL ENGINEERING, PTS. 1-5. ISSN 1660-9336, 2012, vol. 204-208, 1-5, p. 3061-3067., WOS
- [1.1] KARAAGAC, C. - OZTURK, H. - SABUNCU, M. Crack effects on the in-plane static and dynamic stabilities of a curved beam with an edge crack. In JOURNAL OF SOUND AND VIBRATION. ISSN 0022-460X, APR 11 2011, vol. 330, no. 8, p. 1718-1736., WOS
- [1.1] LI JUN - REN GUANGWEI - PAN JIN - LI XIAOBIN - WU WEIGUO. FREE VIBRATION ANALYSIS OF A LAMINATED SHALLOW CURVED BEAM BASED ON TRIGONOMETRIC SHEAR DEFORMATION THEORY. In MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES. ISSN 1539-7734, JAN 2 2014, vol. 42, no. 1, p. 111-129., WOS
- [1.1] LUO, J. - OUYANG, W.G. - LI, X.P. - JIN, Z. - YANG, L.J. - CHEN, C.Q. - ZHANG, J. - LI, Y. - WARNER, J.H. - PENG, L.M. - ZHENG, Q.S. - ZHU, J. Pointwise Plucking of Suspended Carbon Nanotubes. In NANO LETTERS. ISSN 1530-6984, JUL 2012, vol. 12, no. 7, p. 3663-3667., WOS
- [1.1] OZTURK, H. In-plane free vibration of a pre-stressed curved beam obtained from a large deflected cantilever beam. In FINITE ELEMENTS IN ANALYSIS AND DESIGN. ISSN 0168-874X, MAR 2011, vol. 47, no. 3, p. 229-236., WOS
- [1.1] RAJASEKARAN, S. Analysis of curved beams using a new differential transformation based curved beam element. In MECCANICA. ISSN 0025-6455, APR 2014, vol. 49, no. 4, p. 863-886., WOS
- [1.1] TUFEKCI, E. - YIGIT, O.O. Effects of geometric parameters on in-plane vibrations of two-stepped circular beams. In STRUCTURAL

ENGINEERING AND MECHANICS. ISSN 1225-4568, APR 25 2012, vol. 42, no. 2, p. 131-152., WOS

[1.2] HUANG, X.-C. - XU, S.-Y. - ZHANG, Z.-H. - ZHANG, Z.-Y. - HUA, H.-X. Application of wave approach in wave mode conversion and energy transmission of curved beams. In *Zhendong yu Chongji/Journal of Vibration and Shock*, 2012, 31, 8, pp. 38-46., SCOPUS

[1.2] LIN, Chiu Wen - TSENG, Han Ming - TENG, Tso Liang. Stability and large deformation of 2-D laminate circular thin curved beams. In *Applied Mechanics and Materials*. ISSN 16609336, 2014-01-01, 644-650, pp. 5146-5150., SCOPUS

[1.2] LIN, K.C. - LIN, C.W. Finite deformation of 2-D laminated curved beams with variable curvatures. In *International Journal of Non-Linear Mechanics*. ISSN 0020-7462, 2011, vol. 46, no. 10, p. 1293-1304., SCOPUS

ADEB04 MÚČKA, Peter - KROPÁČ, Oldřich. Properties of random component of longitudinal road profile influenced by local obstacles. In *International Journal of Vehicle Systems Modelling and Testing*, 2009, vol.4, no.4, p.256-276. ISSN 1745-6436.

Ohlasy:

[1.1] CHIN, P.A. - FERRIS, J.B. - REID, A.A. Improving Markov Chain Models for Road Profiles Simulation via Definition of States. In 2012 AMERICAN CONTROL CONFERENCE (ACC). ISSN 0743-1619, 2012, p. 2102-2107., WOS

[1.1] CHIN, P.A. - FERRIS, J. - REID, A.A. METHODOLOGY FOR OPTIMIZING FIRST ORDER MARKOV CHAINS OF SPECTRALLY DECOMPOSED TERRAIN PROFILES. In PROCEEDINGS OF THE ASME 5TH ANNUAL DYNAMIC SYSTEMS AND CONTROL DIVISION CONFERENCE AND JSME 11TH MOTION AND VIBRATION CONFERENCE, DSCC 2012, VOL 3. 2013, p. 299-307., WOS

[1.1] PRATICO, F.G. - VAIANA, R. A study on volumetric versus surface properties of wearing courses. In *CONSTRUCTION AND BUILDING MATERIALS*. ISSN 0950-0618, JAN 2013, vol. 38, p. 766-775., WOS

ADEB05 MÚČKA, Peter. Zvislé dynamické účinky vozidiel na vozovku - základné vlastnosti. In *Silniční obzor : měsíčník pro otázky výstavby a údržby silnic, dálnic, místních komunikací, letišť, mostů, tunelů a silničního a městského dopravního inženýrství*. - Praha : Česká silniční společnost, 2002, roč. 63, č.7-8, s.148-152. ISSN 0322-7155.

Ohlasy:

[4] KOVÁČ, Matúš – REMIŠOVÁ, Eva – DECKÝ, Martin – ĎURČANSKÁ, Daniela – ČELKO, Ján. Diagnostika parametrov prevádzkovej spôsobilosti vozoviek. EDIS – vydavateľstvo Žilinskej univerzity, Žilinská univerzita, Žilina, 2012. ISBN 978-80-554-0568-1, 265 s

ADEB06 SIMANČÍK, František. Metallic foams-ultra light materials for structural applications. In *Inzynieria Materialowa*, 2001, roč. 2, č. 5, s. 823-828.

Ohlasy:

[1.1] GRILEC, K. - MARIC, G. - MILOS, K. ALUMINIUM FOAMS IN THE DESIGN OF TRANSPORT MEANS. In *PROMET-TRAFFIC & TRANSPORTATION*. ISSN 0353-5320, 2012, vol. 24, no. 4, p. 295-304., WOS

- [1.1] KADKHODAPOUR, J. - RAEISI, S. Micro-macro investigation of deformation and failure in closed-cell aluminum foams. In COMPUTATIONAL MATERIALS SCIENCE. ISSN 0927-0256, FEB 2014, vol. 83, p. 137-148., WOS

**ADFA Scientific papers in other domestic journals not registered in Current Contents Connect with IF (impacted)**

ADFA01 STEIN, George Juraj. Some Recent Developments in Acceleration Sensors. In *Measurement Science Review : journal published by Institute of Measurement Science, Slovak Academy of Sciences*, 2001, vol.1, no.1, p.183-186. ISSN 1335-8871.

Ohlasy:

[1.1] AKCAY, Huseyin - TURKAY, Semiha. Stochastic optimal control of truck cabin with active suspension. In INTERNATIONAL JOURNAL OF HEAVY VEHICLE SYSTEMS. ISSN 1744-232X, 2014, vol. 21, no. 3, p. 183-207., WOS

[1.1] CHAH, K. - LINZE, N. - CAUCHETEUR, C. - MEGRET, P. - TIHON, P. - VERLINDEN, O. - SULEJMANI, S. - GEERNAERT, T. - BERGHMANS, F. - THIENPONT, H. - WUILPART, M. Temperature-insensitive polarimetric vibration sensor based on HiBi microstructured optical fiber. In APPLIED OPTICS. ISSN 1559-128X, SEP 1 2012, vol. 51, no. 25, p. 6130-6138., WOS

[1.1] TAO, F.Y. - XU, M.L. DESIGN OF A TRI-AXIAL ACCELEROMETER FOR LOW FREQUENCY VIBRATION. In 2011 INTERNATIONAL CONFERENCE ON INSTRUMENTATION, MEASUREMENT, CIRCUITS AND SYSTEMS ( ICIMCS 2011), VOL 1: INSTRUMENTATION, MEASUREMENT, CIRCUITS AND SYSTEMS. 2011, p. 9-12., WOS

[1.1] TONDREAU, Gilles - DERAEMAERKER, Arnaud. Automated data-based damage localization under ambient vibration using local modal filters and dynamic strain measurements: Experimental applications. In JOURNAL OF SOUND AND VIBRATION. ISSN 0022-460X, DEC 22 2014, vol. 333, no. 26, p. 7364-7385., WOS

[1.1] TONDREAU, G. - DERAEMAERKER, A. Local modal filters for automated data-based damage localization using ambient vibrations. In MECHANICAL SYSTEMS AND SIGNAL PROCESSING. ISSN 0888-3270, AUG-SEP 2013, vol. 39, no. 1-2, p. 162-180., WOS

[3] DERAEMAERKER, Arnaud. Vibration Based Structural Health Monitoring Using Large Sensor Arrays: Overview of Instrumentation and Feature Extraction Based on Modal Filters. New Trends in Vibration Based Structural Health Monitoring, CISM Courses and Lectures, 2011, vol. 520, p. 19-54

**ADFB Scientific papers in other domestic journals not registered in Current Contents Connect without IF (non-impacted)**

ADFB01 BALLO, Igor - CHMURNY, Rudolf. Critical speed passage of a flexible slender rotor by re-tuning. In *Strojnícky časopis*, 2007, roč. 58, č.4, s. 216-227. ISSN 0039-2472.

Ohlasy:

[1.1] ZAPOMEL, J. - FERFECKI, P. A computational investigation on the reducing lateral vibration of rotors with rolling-element bearings passing through critical speeds by means of tuning the stiffness of the system supports. In

MECHANISM AND MACHINE THEORY. ISSN 0094-114X, MAY 2011, vol. 46, no. 5, p. 707-724., WOS

- ADFB02     JURČI, P. - DOMÁNKOVÁ, Mária - ŠUŠTARŠIČ, B. - BALOG, Martin. Structure and properties of PM Al-7Cr alloy prepared by rapid solidification. In *Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials*, 2008, vol.8, no.3, p.217-229. ISSN 1335-8978.  
Ohlasy:  
[1.1]     CAVOJSKY, M. - SVEC, P. - JANICKOVIC, D. - OROVEIK, L. - SIMANCIK, F. Rapidly solidified Al-Mo and Al-Mn ribbons: microstructure and mechanical properties of extruded profiles. In KOVOVE MATERIALY-METALLIC MATERIALS. ISSN 0023-432X, 2014, vol. 52, no. 6, p. 371-376., WOS  
[1.1]     KRAINIKOV, A.V. - NEIKOV, O.D. Rapidly solidified high-temperature aluminum alloys. I. Structure. In POWDER METALLURGY AND METAL CERAMICS. ISSN 1068-1302, NOV 2012, vol. 51, no. 7-8, p. 399-411., WOS
- ADFB03     KAPIŠINSKÝ, Igor - FIGUSCH, Viliam - IVAN, Jozef - IŽDINSKÝ, Karol - ZEMÁNKOVÁ, Milina. Reanalysis of porous chondritic cosmic dust particles. In *Contributions of the Astronomical Observatory Skalnaté Pleso*, 2001, vol. 31, no. 2, p. 79-89. (2001 - Current Contents, NASA ADS). ISSN 1335-1842.  
Ohlasy:  
[1.1]     KOCIFAJ, M. - KUNDRACÍK, F. On some microphysical properties of dust grains captured into resonances with Neptune. In MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, 2012, vol. 422, no. 2, p. 1665-1673., WOS
- ADFB04     KLIMAN, Vladimír - GIBA, Vladimír - JELEMENSKÁ, Jana - ŠIŠKO, Róbert. Probabilistic approach to fatigue reliability assessment. In *Strojnícky časopis*, 2010, roč. 61, č.4, s. 191. ISSN 0039-2472.  
Ohlasy:  
[1.1]     TSAI, Y.T. - WANG, K.S. - WOO, J.C. Fatigue life and reliability evaluation for dental implants based on computer simulation and limited test data. In PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE. ISSN 0954-4062, 2013, vol. 227, no. C3, p. 554-564., WOS
- ADFB05     KROPÁČ, Oldřich - MÚČKA, Peter. Relations between characteristics of longitudinal unevenness of roads: a review. In *Strojnícky časopis*, 2003, roč. 54, č. 1, s. 49-64. ISSN 0039-2472.  
Ohlasy:  
[4]     KOVÁČ, Matúš – REMIŠOVÁ, Eva – DECKÝ, Martin – ĎURČANSKÁ, Daniela – ČELKO, Ján. Diagnostika parametrov prevádzkovej spôsobilosti vozoviek. EDIS – vydavateľstvo Žilinskej univerzity, Žilinská univerzita, Žilina, 2012. ISBN 978-80-554-0568-1, 265 s.
- ADFB06     MÚČKA, Peter. Aktívne odpruženie ťažnej nápravy nákladného automobilu. In *Strojnícky časopis*, 2002, roč. 53, č. 3, s. 153-165. ISSN 0039-2472.

Ohlasy:

- [1.1] FIJALKOWSKI, B.T. Automotive Mechatronics: Operational and Practical Issues, Vol II. In AUTOMOTIVE MECHATRONICS: OPERATIONAL AND PRACTICAL ISSUES, VOL II., 2011, 523 p., WOS
- [3.1] CONG, Nguyen Thanh – TUAN, Nguyen Khac – QUYNH, Le Van. Study on Influence of Design Parameters of Suspension System on F-SAE Racing Car Ride Comfort (in Vietnamese). In Tạp chí KHOA HỌC & CÔNG NGHỆ [Magazine SCIENCE & TECHNOLOGY], 2014, Vol. 118, No. 4, pp. 49-54. Dostupné na internete:  
[http://lrc.tnu.edu.vn/upload/collection/brief/42565\\_37201481337.pdf](http://lrc.tnu.edu.vn/upload/collection/brief/42565_37201481337.pdf)

ADFB07 MÚČKA, Peter. Vplyv parametrov modelu štvrtiny vozidla na kvalitu aktívneho odpruženia. In *Strojnícky časopis*, 2000, roč. 51, č. 3, s. 174-186.

Ohlasy:

- [1.1] FIJALKOWSKI, B.T. Automotive Mechatronics: Operational and Practical Issues, Vol II. In AUTOMOTIVE MECHATRONICS: OPERATIONAL AND PRACTICAL ISSUES, VOL II., 2011, 523 p., WOS

ADFB08 PÁLKA, Viliam - IVAN, Jozef - MATEJKA, Dušan - BREZOVSKÝ, Milan. Nehomogenity v plazmovom nástreku prídavných materiálov Ni95BSi5 (K20) a CuSn10. In *Zváranie*, 1991, roč., č. 4-5, s. 78-82.

Ohlasy:

- [1.1] JANKURA, D. - DRAGANOVSKA, D. - BREZINOVA, J. The Analysis on the Structure and Adhesive Properties of Ceramics and Composite Coatings. In CHEMICKE LISTY. ISSN 0009-2770, 2011, vol. 105, SI, p. S542-S545., WOS

ADFB09 STEIN, George Juraj - CHMÚRNY, Rudolf - ROSÍK, Vladimír. Measurement and Analysis of Low Frequency Vibration. In *Measurement Science Review : journal published by Institute of Measurement Science, Slovak Academy of Sciences*, 2007, vol. 7, p.47-50. (2007 - Copernicus International). ISSN 1335-8871.

Ohlasy:

- [1.1] MYTHILI, S. - ATHISHA, G. Association of Body Mass Index with Bone acceleration on Impulse response in Men and Women of South Indian Population. In BIOMEDICAL RESEARCH-INDIA. ISSN 0970-938X, OCT-DEC 2014, vol. 25, no. 4, p. 471-475., WOS
- [1.1] TAO, F.Y. - XU, M.L. DESIGN OF A TRI-AXIAL ACCELEROMETER FOR LOW FREQUENCY VIBRATION. In 2011 INTERNATIONAL CONFERENCE ON INSTRUMENTATION, MEASUREMENT, CIRCUITS AND SYSTEMS ( ICIMCS 2011), VOL 1: INSTRUMENTATION, MEASUREMENT, CIRCUITS AND SYSTEMS. 2011, p. 9-12., WOS
- [1.1] VENKATESH, K.A. - MATHIVANAN, N. Design of MEMS Accelerometer based Acceleration Measurement System for Automobiles. In MEASUREMENT SCIENCE REVIEW. ISSN 1335-8871, 2012, vol. 12, no. 5, p. 189-194., WOS
- [3.1] JAMIL, I. A. - ABEDIN, M. I. - SARKER, D. K. - ISLAM, J. Vibration data acquisition and visualization system using MEMS accelerometer. In Electrical Engineering and Information & Communication Technology

(ICEEICT), 2014 International Conference on (pp. 1-6). IEEE Conference Publications, ISBN: 978-1-4799-4820-8.

**ADMA Scientific papers in foreign impacted journals registered in Web of Sciences or Scopus**

ADMA01 BALOG, Martin - FLOREK, Roman - NOSKO, Martin - SIMANČÍK, František. Self-propagating synthesis of Ti-Al-C powder mixtures. In *Key Engineering Materials*, 2012, vol.520, p.347-352. (2012 - SCOPUS). ISSN 1013-9826.

Ohlasy:

[1.2] WANG, Nan - LIU, Hui Ming - HAN, Lin Feng - YU, Xiang Lian - LI, Zhi Peng. Effect of CuO on the self-propagating reaction process of Ti-C-Al systems. In Beijing Keji Daxue Xuebao/Journal of University of Science and Technology Beijing. ISSN 1001053X, 2014-01-01, 36, 6, pp. 803-809., SCOPUS

**AEC Scientific papers in foreign peer-reviewed proceedings, monographs**

AEC01 BILÝ, Matěj - TYDLAČKA, Vladimír. Operating Conditions as Input Information for Fatigue Life Estimation. In *EIS 1 Measurement and Fatigue : Proceedings of the First International Conference of the Engineering Integrity Society*. - EMAS: Publishing, 1986. ISBN 0 947817 115.

Ohlasy:

[1.1] NIESLONY, A. - RUZICKA, M. - PAPUGA, J. - HODR, A. - BALDA, M. - SVOBODA, J. Fatigue life prediction for broad-band multiaxial loading with various PSD curve shapes. In INTERNATIONAL JOURNAL OF FATIGUE. ISSN 0142-1123, NOV 2012, vol. 44, p. 74-88., WOS

AEC02 GABALCOVÁ, Zuzana - LAPIN, Juraj. Experimental study of columnar to equiaxed transition during directional solidification of intermetallic Ti-46Al-8Nb alloy. In *METAL 2009 : 18.mezinárodní konference metalurgie a materiálů*. Editor Jiří KLÍBER, Miroslav KURSA. - Ostrava : TANGER, 2009. ISBN 978-80-87294-03-1.

Ohlasy:

[1.1] LAMARAO, P. - SANTANA, C. - MARTINS, J. - QUARESMA, J. PROPERTIES CORRELATION OF AN AL-MG-FE-CU ALLOY UNIDIRECTIONALLY SOLIDIFIED FOR OVERHEAD TRANSMISSION LINES. In METALURGIA INTERNATIONAL. ISSN 1582-2214, 2013, vol. 18, 5, p. 15-19., WOS

[1.1] SALEEM, J. - MAJID, A. - BERTILSSON, K. - CARLBERG, T. 3 Dimensional Finite Element Simulation of Seam Welding Process. In ELEKTRONIKA IR ELEKTROTECHNIKA. ISSN 1392-1215, 2013, vol. 19, no. 8, pp. 73-78., WOS

[1.2] ZHONG, H. – BAI, K. – WANG, J. – ZHANG, T. – KOU, H. – LI, S. – LI, J.: Phase transition in directionally solidified TiAl-based alloys containing Nb and Mo. Ti 2011-Proceedings of the 12th world conference on titanium, 2, 2012, pp. 1491-1493., SCOPUS

AEC03 GUALCO, C. - GRATTAROLA, M. - FEDERICI, A. - MATALONI, F. - IŽDINSKÝ, Karol - SIMANČÍK, František - SCHWARZ, B. - GARCIA-ROSALES, C. - LÓPEZ-GALILEA, I. Brazing Technology for Plasma Facing Components in Nuclear Fusion Applications Using Low and Graded CTE



Interlayers. In *New Materials for Extreme Environments : 1st international conference*. Editor Ch. Linsmeier and M. Reinelt. - Stafa-Zurich : Trans.Tech.Publications Ltd, 2009, pp. 192-197. ISBN 0-87849-344-1.

Ohlasy:

[1.1] PINTSUK, G. - CASALEGNO, V. - FERRARIS, M. - KOPPITZ, T. - SALVO, M. Thermal fatigue characterization of CFC divertor modules using a one step brazing process. In *JOURNAL OF NUCLEAR MATERIALS*. ISSN 0022-3115, JUL 2012, vol. 426, no. 1-3, p. 78-84., WOS

AEC04 KLIMO VÁ, Alena - GABALCOVÁ, Zuzana - LAPIN, Juraj. Effect of the solidification parameters on the distribution of the alloying elements during directional solidification of the intermetallic Ti-44Al-5Nb-0.2B-0.2C alloy. In *METAL 2013 : 22.ročník mezinárodní konference metalurgie a materiálů*. - Brno : TANGER, spol. s r.o., 2013. ISBN 978-80-87294-39-0.

Ohlasy:

[3] ČEGAN, T.: Vliv krystalizačních procesů na strukturu a vlastnosti intermetalických sloučenin na bázi Ti-Al. [Dizertačná práce]. Ostrava : VŠB-Technická univerzita Ostrava, 2013, 165 s.

AEC05 LAPIN, Juraj. Creep behaviour of directionally solidified Ni3Al based alloy. In *Materials for Advanced Power Engineering : Proceedings of the 6th Liege Conference*. Vol.5, Part III. - Jülich : Forschungszentrum, 1998, s.1337-1346. ISBN 3-89336-228-2.

Ohlasy:

[1.1] QI, Y.H. - GUO, J.T. Tensile Creep Behavior of two NiAl-based Alloys. In *ADVANCED MATERIALS AND PROCESS TECHNOLOGY*, PTS 1-3. ISSN 1660-9336, 2012, vol. 217-219, 1-3, p. 334-337., WOS

AEC06 LAPIN, Juraj - GEBURA, Marek - PELACHOVÁ, Tatiana - BAJANA, Otto. Microstructure degradation of nickel base single crystal superalloy CMSX-4. In *METAL 2009 : 18.mezinárodní konference metalurgie a materiálů*. Editor Jiří KLÍBER, Miroslav KURSA. - Ostrava : TANGER, 2009. ISBN 978-80-87294-03-1.

Ohlasy:

[1.1] MALCHARCZIKOVA, J. - CHMELIK, F. - PESICKA, J. - KURSA, M. - POHLUDKA, M. NON-ALLOYED Ni3Al BASED ALLOYS - PREPARATION AND EVALUATION OF MECHANICAL PROPERTIES. In *METALURGIJA*. ISSN 0543-5846, JUL-SEP 2013, vol. 52, no. 3, p. 309-312., WOS

[1.2] MALCHARCZIKOVÁ, Jitka - MICHENKA, Vít - POHLUDKA, Martin - KURSA, Miroslav - KAŇÁK, David. High temperature characteristics of Ni3Al alloys at various testing conditions. In *METAL 2014 23rd International Conference on Metallurgy and Materials, Conference Proceedings*, 2014-01-01, pp. 1310-1315., SCOPUS

AEC07 LAPIN, Juraj - NAZMY, Mohamed. Processing, microstructure and mechanical properties of directionally solidified TiAl based alloy reinforced by Al2O3 particles. In *TMS. TMS 2003 : 132nd Annual Meeting and Exhibition*. - Warrendale : TMS, 2003. ISBN 0-87339-543-3.

Ohlasy:

[1.2] KARTAVYKH, Andrey V. - KALOSHKIN, Sergey Dmitrievich -

CHERDYNTSEV, V. V. - GORSHENKOV, Mikhail V. - SVIRIDOVA, Tatyana A. - BORISOVA, Yu V. - SENATOV, Fedor S. - MAKSIMKIN, Aleksey V. Application of microstructured intermetallides in turbine manufacture. Part 2: Problems in development of heat-resistant alloys based on TiAl (a review). In Inorganic Materials: Applied Research. ISSN 20751133, 2013-01-01, 4, 1, pp. 36-45., SCOPUS

AEC08      LAPIN, Juraj - PELACHOVÁ, Tatiana - BAJANA, Otto. The effect of microstructure on mechanical properties of single crystal CMSX-4 superalloy. In *METAL 2013 : 22.ročník mezinárodní konference metalurgie a materiálu*. - Brno : TANGER, spol. s r.o., 2013, s. 1277-1282. ISBN 978-80-87294-39-0.

Ohlasy:

[3.1]      SIDOROV, E.: Theoretical and experimental research of the single crystal growing of the Fe-Cr, Fe-Ni-Ti, Fe-Co-Cr-Mo, Fe-Ni-Al-Co-Cu-Ti based alloys. In: 23rd International Conference on Metallurgy and Materials, METAL 2014. Tanger Ltd, 2014, s. 1155-1162.

AEC09      LAPIN, Juraj. TiAl-based alloys: present status and future perspectives. In *METAL 2009 : 18.mezinárodní konference metalurgie a materiálu*. Editor Jiří KLÍBER, Miroslav KURSA. - Ostrava : TANGER, 2009. ISBN 978-80-87294-03-1.

Ohlasy:

[1.1]      BONDAR, A.A. - WITUSIEWICZ, V.T. - HECHT, U. - REMEZ, M.V. - VOBLIKOV, V.M. - TSYGANENKO, N.I. - YEVICH, Y.I. - PODREZOV, Y.M. - VELIKANOVA, T.Y. STRUCTURE AND PROPERTIES OF TITANIUM-ALUMINUM ALLOYS DOPED WITH NIOBIUM AND TANTALUM. In POWDER METALLURGY AND METAL CERAMICS. ISSN 1068-1302, OCT 2011, vol. 50, no. 7-8, p. 397-415., WOS

[1.1]      CEGAN, T. - KURSA, M. - KONECNA, K. - SMETANA, B. - ZLA, S. - MATEJKA, V. - ZALUDOVA, M. EFFECT OF YTTRIUM ON OXYGEN CONTENT AND MICROSTRUCTURE OF TI-AL INTERMETALLICS. In 21ST INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS (METAL 2012). 2012, p. 1430-1436., WOS

[1.1]      CEGAN, T. - KURSA, M. - KONECNA, K. - PETLAK, D. EFFECT OF ANNEALING ON MICROSTRUCTURE AND PROPERTIES OF YTTRIUM ALLOYED INTERMETALLICS TI-47AL. In 21ST INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS (METAL 2012). 2012, p. 1437-1443., WOS

[1.1]      DENG ZHIHAI - LI JINSHAN - ZHANG TIEBANG - HU RUI - ZHONG HONG - CHANG HUI. Hot Workability and Microstructure Evolution of TiAl Alloy in (alpha(2)+gamma) Dual-phase Field. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, 2013, vol. 42, no. 7, pp. 1356-1361., WOS

[1.1]      POPELA, Tomas - VOJTECH, Dalibor. PREPARATION AND PROPERTIES OF BORIDE LAYERS ON TiAl INTERMETALLICS. In METAL 2013: 22ND INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS, 2013, vol., no., pp. 1347-1352., WOS

[1.1]      POPELA, T. - VOJTECH, D. HIGH-TEMPERATURE BEHAVIOUR OF Ti-Al-Nb-Ta INTERMETALLICS. In METAL 2011: 20TH ANNIVERSARY INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS. 2011, p. 986-990., WOS

- [1.1] POPELA, T. - VOJTECH, D. Characterization of pack-bonded last-generation TiAl intermetallics. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, SEP 25 2012, vol. 209, p. 90-96., WOS
- [1.1] POPELA, T. - VOJTECH, D. BORONIZING OF THE LAST GENERATION TIAL INTERMETALLICS. In 21ST INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS (METAL 2012). 2012, p. 1554-1560., WOS
- [1.1] VOJTECH, D. - POPELA, T. - HAMACEK, J. - KUTZENDORFER, J. The influence of tantalum on the high temperature characteristics of lamellar gamma + alpha 2 titanium aluminide. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, NOV 15 2011, vol. 528, no. 29-30, p. 8557-8564., WOS
- [1.1] YAO, W.J. - NIU, X.L. - ZHOU, L. - WANG, N. - LEE, J. Competition Growth of alpha and beta Phases in Ti-50 at.%Al Peritectic Alloy during the Rapid Solidification by Laser Melting Technique. In ACTA METALLURGICA SINICA-ENGLISH LETTERS. ISSN 1006-7191, OCT 2013, vol. 26, no. 5, p. 523-532., WOS
- [1.2] YANG, C. – HU, D. – WU, X. – HUANG, A. – DIXON, M.: The influence of cooling rate and alloy composition on the formation of borides during solidification of boron-containing TiAl alloys. Ti 2011-Proceedings of the 12th world conference on titanium, 2, 2012, pp. 1416-1420., SCOPUS
- [3] ČEGAN, T.: Vliv krystalizačních procesů na strukturu a vlastnosti intermetalických sloučenin na bázi Ti-Al. [Dizertačná práce]. Ostrava : VŠB-Technická univerzita Ostrava, 2013, 165 s.
- [3] LI, M. – XUE, X.Y. – HU, R. – ZHANG, T.B. – ZHONG, H. – LI, J.S.: Nucleation of b/a phases in undercooled Ti-48(at%) peritectic alloy. J. Aeronaut. Mater. (China), 32 (2), 2012, s. 1-7
- [3.1] SHABGARD, M. – FARJI, H. – KHOSROZADEH, B. – AMINI, K. – SEYEDZAWAR, M.: Experimental investigation into the EDM process of  $\gamma$ -TiAl. ISSN: 1300-0160, Turkish J Eng Env Sci, 38 (2), 2014, s. 231-239.

AEC10 SIMANČÍK, František - BEHULOVÁ, Katarína - BORŠ, Ladislav. Effect of ambient atmosphere on metal foam expansion. In *Cellular metals and Metal Foaming Technology : international conference*. Editor John Banhart, Michael F. Ashby, Norman A. Fleck. - Bremen : Verlag Metall Innovation Technologie MIT, 2001, s.89-92. ISBN 3-935538-11-1.

Ohlasy:

- [1.1] BANHART, John. Light-Metal Foams History of Innovation and Technological Challenges. In ADVANCED ENGINEERING MATERIALS. ISSN 1438-1656, 2013, vol. 15, no. 3, pp. 82-111., WOS
- [1.1] HELWIG, H.M. - GARCIA-MORENO, F. - BANHART, J. A study of Mg and Cu additions on the foaming behaviour of Al-Si alloys. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, AUG 2011, vol. 46, no. 15, p. 5227-5236., WOS

AEC11 SIMANČÍK, František - RAJNER, Walter - LAAG, Rainhard. Reinforced allulight for structural use. In TMS. *Processing and properties of lightweight cellular metals and structures : proceedings of a symposium sponsored by the MPMD of TMS*, s.25-34. ISBN 0-87339-527-1.

Ohlasy:

[1.1] BANHART, J. - SEELIGER, H.W. Recent Trends in Aluminum Foam Sandwich Technology. In *ADVANCED ENGINEERING MATERIALS*. ISSN 1438-1656, DEC 2012, vol. 14, no. 12, SI, p. 1082-1087., WOS

- AEC12 STANEKOVÁ, Hana - LAPIN, Juraj. Creep damage assessment in intermetallic Ti-46Al-8Ta alloy using high-resolution computed tomography. In *METAL 2012 : international conference on metallurgy and materials*. - Brno, 2012, s. 1245-1251. (2012 - WOS). ISBN 978-80-87294-29-1.

Ohlasy:

[1.1] ARENA, Alessio - DELLE PIANE, Claudio - SAROUT, Joel. A new computational approach to cracks quantification from 2D image analysis: Application to micro-cracks description in rocks. In *COMPUTERS & GEOSCIENCES*. ISSN 0098-3004, MAY 2014, vol. 66, p. 106-120., WOS

- AEC13 STEIN, George Juraj - CHMÚRNÝ, Rudolf. Damping of beam transversal vibrations by a permanent magnet with coil. In *ENGINEERING MECHANICS 2013*. - Prague : Institute of Thermomechanics Academy of Sciences, 2013, s.541-552. ISBN 978-80-87012-46-8.

Ohlasy:

[1.1] ZHAO, X.J. - SCHINDLER, C. Investigation of the effect of safety belt on the seat transmissibility. In *PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART K-JOURNAL OF MULTI-BODY DYNAMICS*. ISSN 1464-4193, SEP 2014, vol. 228, no. 3, p. 252-265., WOS

#### **AED Scientific papers in domestic peer-reviewed proceedings, monographs**

- AED01 ČOREJ, Ján - BENČ, G. - DECKÝ, Martin - GAVULOVA, Andrea - KOMAČKA, Jozef - KUBÍK, B. - MÚČKA, Peter - REMIŠOVÁ, E. - SCHLOSSER, František - VALUCH, Milan. Dynamické zaťaženie vozovky od účinkov vozidiel. In *ŽU. Mechanika vozoviek : navrhovanie vozoviek a spevnených plôch*. - Žilina : Žilinská univerzita, 2006, s.56-64. ISBN 80-8070-571-2.

Ohlasy:

[1.1] MILJKOVIC, M. Reconsideration of European Empirical and Fundamental Specifications for Asphalt Mixtures. In *JOURNAL OF MATERIALS IN CIVIL ENGINEERING*. ISSN 0899-1561, AUG 1 2013, vol. 25, no. 8, p. 1030-1040., WOS

[3.1] ROŠTÁK, Peter – KOLESÁR, Ján. Evaluation of the carrying capacity of the airport movement areas applying the ACN/PCN method. In *ACTA AVIONICA*, Vol. 15, 2013, No. 27, pp. 1-3. ISSN 1335-9479. Dostupné na internete:

<http://acta-avionica.tuke.sk/ojs/index.php/aavionica/article/download/220/220>

[4] KOVÁČ, Matúš – REMIŠOVÁ, Eva – DECKÝ, Martin – ĐURČANSKÁ, Daniela – ČELKO, Ján. Diagnostika parametrov prevádzkovej spôsobilosti vozoviek. *EDIS – vydavateľstvo Žilinskej univerzity, Žilinská univerzita, Žilina, 2012. ISBN 978-80-554-0568-1, 265 s.*

[4] ŠRÁMEK, J. Únava recyklovaných zmesí stmelených asfaltom. In *SILNIČNÍ OBZOR*, ISSN 0322-7154 2013, Vol. 74, 2013, č. 2, s. 39-42.

- AED02 HAJN, Miroslav - NOSKO, Martin - SIMANČÍK, František - DVORÁK, Tomáš - FLOREK, Roman. RTG mikrotomografia: princípy a možnosti jej využitia

v oblasti charakterizácie kovových materiálov. In *Použitie moderných nedeštruktívnych meracích metód vo výskume nových materiálov v rámci centra excelentnosti CEKOMAT*. - Bratislava : Ústav merania SAV, 2011, s.9-13. ISBN 978-80-969672-3-0.

Ohlasy:

[1.1] STANEKOVA, H. - LAPIN, J. CREEP DAMAGE ASSESSMENT IN INTERMETALLIC TI-46AL-8TA ALLOY USING HIGH-RESOLUTION COMPUTED TOMOGRAPHY. In 21ST INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS (METAL 2012). 2012, p. 1245-1251., WOS

AED03 HAIN, Miroslav - NOSKO, Martin - SIMANČÍK, František - DVORÁK, Tomáš - FLOREK, Roman. X-ray microtomography and its use for non-destructive characterisation of materials. In *MEASUREMENT 2011 : Proceedings of the 8th International Conference on Measurement*. Editors J. Maňka, V. Witkovský, M. Tyšler, I. Frollo. - Bratislava : Institute of Measurement Science SAS, 2011, p. 123-126. ISBN 978-80-969-672-4-7.

Ohlasy:

[1.1] KOVAROVA, K. - SEVCIK, R. - WEISHAUPTOVA, Z. Comparison of mercury porosimetry and X-ray microtomography for porosity study of sandstones. In ACTA GEODYNAMICA ET GEOMATERIALIA. ISSN 1214-9705, 2012, vol. 9, no. 4, p. 541-549., WOS

AED04 KOVÁČIK, Jaroslav - SIMANČÍK, František. Comparison of zinc and aluminium foams in deformation and fracture. In *Deformation and fracture in structural PM materials. Piešťany, 19.-22.9.1999*. - Košice : IMR SAS, 1999, s.106-114.

Ohlasy:

[1.2] STRANO, M. - VILLA, Andrea - MUSSI, Valerio. Design and manufacturing of anti-intrusion bars made of aluminium foam filled tubes. In International Journal of Material Forming. ISSN 19606206, 2013-01-01, 6, 1, pp. 153-164., SCOPUS

#### **AEE Scientific papers in foreign non peer-reviewed proceedings, monographs**

AEE01 BALLO, Igor - CHMÚRNY, Rudolf. Optimisation of the parameters at the passage of the rotor through critical speed by means of proper tuning. In ZOLOTAREV, Igor - POŽIVILOVÁ, Alena. *Engineering Mechanics 2004 : national conference*. - Svratka : Institute of Thermomechanics Academy of Sciences, 2004.

Ohlasy:

[1.1] ZAPOMEL, J. - FERFECKI, P. A computational investigation on the reducing lateral vibration of rotors with rolling-element bearings passing through critical speeds by means of tuning the stiffness of the system supports. In MECHANISM AND MACHINE THEORY. ISSN 0094-114X, MAY 2011, vol. 46, no. 5, p. 707-724., WOS

AEE02 BALLO, Igor - CHMÚRNY, Rudolf. Passage of a flexible slender rotor through critical speed. In Institute of Theoretical and Applied Mechanics ASCR. *Engineering Mechanics 2003 : national conference with international participation*. - Praha : Institute of Theoretical and Applied Mechanics ASCR, 2003, s. 1-9.

Ohlasy:

[1.1] ZAPOMEL, J. - FERFECKI, P. A computational investigation on the reducing lateral vibration of rotors with rolling-element bearings passing through critical speeds by means of tuning the stiffness of the system supports. In MECHANISM AND MACHINE THEORY. ISSN 0094-114X, MAY 2011, vol. 46, no. 5, p. 707-724., WOS

AEE03 DEGISCHER, Hans Peter - GALOVSKÝ, Ulrike - GRADINGER, Rudolf - KRETZ, Richard - SIMANČÍK, František. Uber mechanische Eigenschaften von Aluminiumschäumen. In *Metallschäume : symposium Metallschäume*. Editor John Banhart. - Bremen : MIT, 1997.

Ohlasy:

[1.1] SHIH, J.S. - TZENG, Y.F. - LIN, Y.F. - YANG, J.B. Multi-Objective Process Optimization of Pulsed Plasma Arc Welding SS400 Steel Pipe with Foamed Aluminum Liner. In JOURNAL OF ADVANCED MECHANICAL DESIGN SYSTEMS AND MANUFACTURING. ISSN 1881-3054, 2012, vol. 6, no. 2, p. 222-235., WOS

AEE04 DVOŘÁK, Jiří - KRÁL, Petr - BALOG, Martin - SIMANČÍK, František - SKLENIČKA, Václav. Microstructure and mechanical properties of powder aluminium prepared by severe plastic deformation. In *Metal 2010 : 19. mezinárodní konference metalurgie a materiálů. Rožnov pod Radhoštěm, 18.-20.5.2010.* - Ostrava : Tanger, s.r.o., 2010, s. ISBN 978-80-87294-15-4.

Ohlasy:

[1.1] POLLY, Pravir - SEKHAR, K. Chandra - RAVISANKAR, B. - KUMARAN, S. DENSIFICATION OF MECHANICALLY ALLOYED Al5083-5wt% Y2O3 NANO-COMPOSITE BY EQUAL CHANNEL ANGULAR PRESSING. In DYNAMICS OF MACHINES AND MECHANISMS, INDUSTRIAL RESEARCH. ISSN 1660-9336, 2014, vol. 592-594, p. 963-967., WOS

AEE05 GEBURA, Marek - LAPIN, Juraj. Morphological Changes of  $\gamma'$  in Ni-based Superalloy During Long-Term Ageing. In *METAL 2008 : mezinárodní konference metalurgie a materiálů.* - Ostrava : TANGER, 2008. ISBN 978-80-254-1987-8. Morphological Changes of [gamma] in Ni-based Superalloy During Long-Term Ageing.

Ohlasy:

[1.1] RAJENDRAN, M.K. - SHCHYGLO, O. - STEINBACH, I. Large scale 3-D phase-field simulation of coarsening in Ni-base superalloys. In EUROSUPERALLOYS 2014 - 2ND EUROPEAN SYMPOSIUM ON SUPERALLOYS AND THEIR APPLICATIONS. ISSN 2261-236X, 2014, vol. 14., WOS

AEE06 KOVÁČIK, Jaroslav - SIMANČÍK, František. Modelling of the aluminium foam properties according to percolation theory. In *Metal Foams and Porous Metal Structures : international conference on METFOAM*. Editor John Banhart, Michael F. Ashby, Norman A. Fleck. - Bremen : MIT, 1999, s.303-306.

Ohlasy:

[1.1] DUMEE, L.F. - HE, L. - LIN, B. - AILLOUX, F.M. - LEMOINE, J.B. - VELLEMAN, L. - SHE, F.H. - DUKE, M.C. - ORBELL, J.D. - ERSKINE, G. -

HODGSON, P.D. - GRAY, S. - KONG, L.X. The fabrication and surface functionalization of porous metal frameworks - a review. In JOURNAL OF MATERIALS CHEMISTRY A. ISSN 2050-7488, 2013, vol. 1, no. 48, p. 15185-15206., WOS

[1.1] ZHANG, W. - LIU, Y. - WANG, H. - WEI, Q.Q. Preparation and properties of porous Ti-Al alloys by reactive infiltration. In POWDER METALLURGY. ISSN 0032-5899, JUL 2011, vol. 54, no. 3, p. 253-256., WOS

AEE07 KOVÁČIK, Jaroslav - SIMANČÍK, František. Use of a zinc foam for filling of hollow steel profiles. In *Cellular methods and Metal foaming technology*. - Bremen : MIT VERLAG, 2001, s.353-358.

Ohlasy:

[1.1] CAMPANA, Giampaolo - ASCARI, Alessandro - FORTUNATO, Alessandro. Laser foaming for joining aluminum foam cores inside a hollow profile. In OPTICS AND LASER TECHNOLOGY. ISSN 0030-3992, 2013, vol. 48, no., pp. 331-336., WOS

[1.1] CHETHAN, A. - GARCIA-MORENO, F. - WANDERKA, N. - MURTY, B.S. - BANHART, J. Influence of oxides on the stability of zinc foam. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, DEC 2011, vol. 46, no. 24, p. 7806-7814., WOS

AEE08 LAPIN, Juraj - HECHT, Ulrike. Effect of Processing Parameters on Microstructure and Mechanical Properties of Cast TiAl Based Alloys. In *METAL 2008 : mezinárodní konference metalurgie a materiálů*. - Ostrava : TANGER, 2008. ISBN 978-80-254-1987-8.

Ohlasy:

[1.1] NOVAK, P. - ZELINKOVA, M. - SERAK, J. - MICHALCOVA, A. - NOVAK, M. - VOJTECH, D. Oxidation resistance of SHS Fe-Al-Si alloys at 800 degrees C in air. In INTERMETALLICS. ISSN 0966-9795, SEP 2011, vol. 19, no. 9, p. 1306-1312., WOS

[3] ČEGAN, T.: Vliv krystalizačních procesů na strukturu a vlastnosti intermetalických sloučenin na bázi Ti-Al. [Dizertačná práce]. Ostrava : VŠB-Technická univerzita Ostrava, 2013, 165 s.

AEE09 ONDRUŠ, Ľuboš - LAPIN, Juraj. Vplyv mikroštruktúry na mechanické vlastnosti usmernene kryštalizovanej intermetallickej zliatiny Ti-46Al-2W-0,5Si. In TANGER, spol. s r.o. *Metal 2002 : zborník prednášiek*. - Ostrava : TANGER, s.r.o., 2002. ISBN 80-85988-73-9.

Ohlasy:

[3] ČEGAN, T.: Vliv krystalizačních procesů na strukturu a vlastnosti intermetalických sloučenin na bázi Ti-Al. [Dizertačná práce]. Ostrava : VŠB-Technická univerzita Ostrava, 2013, 165 s.

AEE10 SIMANČÍK, František - SCHOERGHUBER, F. *Complex foamed aluminum parts as permanent cores in aluminum castings*. Warrendale : MRS, 1998. s.151-157.

Ohlasy:

[1.2] BANHART, John. Light-metal foams History of innovation and technological challenges. In *Advanced Engineering Materials*. ISSN 14381656, 2013-03-01, 15, 3, pp. 82-111., SCOPUS

- AEE11      SIMANČÍK, František - KOVÁČIK, Jaroslav - SEDLIAKOVÁ, Natália.  
Deformation and fracture mechanism of aluminium foams. In *Powder Metallurgy World Congress and Exhibition*. - Shrewsbury : European Powder Metallurgy Association, 1998, s.245-250. ISBN 1 899072 09 8.  
Ohlasy:  
[1.2]      Seifi, S.M. - Tabatabaei, Y. - Mirbagheri, S.M.H. - Tafteh, R. Effects of addition of SiC and TiB<sub>2</sub> particles on structural and mechanical properties of PM Al-Si foams. In *Materials Science and Technology Conference and Exhibition 2011*, MS and T'11. ISBN 978-161839261-9, 2011, vol. 1, pp. 859-866., SCOPUS
- AEE12      SIMANČÍK, František - DEGISCHER, Hans Peter - WÖRZ, H. Foamed aluminium-light structural and insulation material. In *EUROMAT '95 : European conference on Advanced Materials and Processes*. - Milano : AIM, 1995, s.191-196.  
Ohlasy:  
[1.1]      BANHART, John. Light-Metal Foams History of Innovation and Technological Challenges. In *ADVANCED ENGINEERING MATERIALS*. ISSN 1438-1656, 2013, vol. 15, no. 3, pp. 82-111., WOS  
[1.1]      GHOSE, J. - SHARMA, V. - KUMAR, S. Acoustic Absorption Characteristics of Closed Cell Aluminium Foam. In *MECHANICAL AND AEROSPACE ENGINEERING*, PTS 1-7. ISSN 1660-9336, 2012, vol. 110-116, 1-7, p. 1145-1149., WOS
- AEE13      SIMANČÍK, František - KOVÁČIK, Jaroslav - SCHÖRGHUBER, Franz. Porosity in complex 3D-parts prepared from aluminium foams. In *Metallschäume : symposium Metallschäume*. Editor John Banhart. - Bremen : MIT, 1997, p.171-176.  
Ohlasy:  
[1.1]      BANHART, John. Light-Metal Foams History of Innovation and Technological Challenges. In *ADVANCED ENGINEERING MATERIALS*. ISSN 1438-1656, 2013, vol. 15, no. 3, pp. 82-111., WOS
- AEE14      SIMANČÍK, František - LÚČAN, Lubomír - JERZ, Jaroslav. Reinforced aluminium foams. In *Cellular metals and Metal Foaming Technology : international conference*. Editor John Banhart, Michael F. Ashby, Norman A. Fleck. - Bremen : Verlag Metall Innovation Technologie MIT, 2001, s.365-368. ISBN 3-935538-11-1.  
Ohlasy:  
[1.1]      BANHART, John. Light-Metal Foams History of Innovation and Technological Challenges. In *ADVANCED ENGINEERING MATERIALS*. ISSN 1438-1656, 2013, vol. 15, no. 3, pp. 82-111., WOS
- AEE15      SIMANČÍK, František. Reproducibility of aluminium foam properties. In *Metal foams and porous metal structures : international conference on METFOAM*. - Bremen : MIT, 1999, s.235-240.  
Ohlasy:  
[1.1]      FOROUGH, Babak - DEGISCHER, H. Peter - KOTTAR, Andreas. Characterization and Simulation of Tensile Deformation of Non-Uniform Cellular Aluminium Until Damage. In *ADVANCED ENGINEERING MATERIALS*. ISSN 1438-1656, 2013, vol. 15, no. 4, pp. 276-286., WOS  
[1.1]      LAZARO, Jaime - LAGUNA-GUTIERREZ, Ester - SOLORZANO,



Eusebio - ANGEL RODRIGUEZ-PEREZ, Miguel. Effect of Microstructural Anisotropy of PM Precursors on the Characteristic Expansion of Aluminum Foams. In METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE. ISSN 1073-5615, 2013, vol. 44, no. 4, pp. 984-991., WOS

[1.1] SHEVCHENKO, Natalia - BODEN, Stefan - ECKERT, Sven - BORIN, Dmitry - HEINZE, Michael - ODENBACH, Stefan. Application of X-ray radioscopic methods for characterization of two-phase phenomena and solidification processes in metallic melts. In EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS. ISSN 1951-6355, 2013, vol. 220, no. 1, pp. 63-77., WOS

AEE16 STEIN, George Juraj - ZAHORANSKÝ, Radúz - MÚČKA, Peter - CHMÚRNY, Rudolf - MEYER, H. On dry-friction modelling in simple, kinematically excited, vibration isolation systems. In SAS, P. - DE MUNCK, M. *ISMA*. - Leuven : Katholieke Universiteit, 2004. ISBN 90-73802-82-2.

Ohlasy:

[3] PECOLT, Sebastian. Wybrane problemy budowy i optymalizacji sterowania urządzeniem pozycjonującym o układzie elektromagnetycznym. Politechnika Koszalińska, Instytut Mechatroniki Nanotechnologii i Techniki Próżniowej, Koszalin, Poland, 2012.

AEE17 ŠTEFÁNIK, Pavol - ŠEBO, Pavol. Thermal expansion of copper-carbon fibres composites. In *Composites: Fracture mechanics and technology. Composites: Fracture mechanics and technology*.

Ohlasy:

[1.2] WU, Yi - WANG, Mingliang - CHEN, Zhe - MA, Naiheng - WANG, Haowei. The effect of phase transformation on the thermal expansion property in Al/ZrW<sub>2</sub>O<sub>8</sub> composites. In Journal of Materials Science. ISSN 00222461, 2013-04-01, 48, 7, pp. 2928-2933., SCOPUS

AEE18 ZOLLINGER, J. - DALOZ, D. - COMBEAU, H. - LAPIN, Juraj. Microstructures and microsegregation formation in TiAl-based alloys containing niobium. In *Proceedings of the 5th Decennial International Conference on Solidification Processing*. - Sheffield : University of Sheffield, 2007.

Ohlasy:

[1.1] LIU, G.H. - LI, X.Z. - SU, Y.Q. - CHEN, R.R. - GUO, J.J. - FU, H.Z. Microstructure and microsegregation in directionally solidified Ti-46Al-8Nb alloy. In TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA. ISSN 1003-6326, JUN 2012, vol. 22, no. 6, p. 1342-1349., WOS

#### **AEF Scientific papers in domestic non peer-reviewed proceedings, monographs**

AEF01 DANNINGER, H. - ROUZBAHANI, F. - HAROLD, C. - PONEMAYR, H. - DAXELMÜLLER, M. - SIMANČÍK, František - IŽDINSKÝ, Karol. Effect of heat treatment on hardness and formability of carbon-free tool steels. In Institute of Materials Research SAS. *Deformation and fracture in structural PM Materials : proceedings of the international conference*. ISBN 80-968543-4-8.

Ohlasy:

[1.1] EIDENBERGER, E. - SCHNITZER, R. - ZICKLER, G.A. - SCHOBER, M. - BISCHOF, M. - STARON, P. - LEITNER, H. - SCHREYER,

A. - CLEMENS, H. Application of Photons and Neutrons for the Characterization and Development of Advanced Steels. In **ADVANCED ENGINEERING MATERIALS**. ISSN 1438-1656, AUG 2011, vol. 13, no. 8, SI, p. 664-673., WOS

[1.1] WEIRATHER, T. - FIAN, A. - SARTORY, B. - CALISKANOGLU, D. - KOLKER, W. - MITTERER, C. Duplex processing for increased adhesion of sputter deposited Ti<sub>1-x</sub>Al<sub>x</sub>N coatings on a Fe-25%Co-15%Mo tool material. In **SURFACE & COATINGS TECHNOLOGY**. ISSN 0257-8972, APR 25 2012, vol. 206, no. 17, p. 3601-3606., WOS

#### **AFC Published papers from foreign scientific conferences**

AFC01 ČÁČKO, Jozef. Modelling of a fatigue cumulative damage under random loading conditions. In *13th European Conference on Fracture FRACTURE MECHANICS:APPLICATIONS AND CHALLENGES*.

Ohlasy:

[1.1] LEITNER, B. The Procedure of Fatigue Damage Estimation for Mechanical Structures under Service Loading. In **TRANSPORT MEANS 2014**. ISSN 1822-296X, 2014, p. 54-58., WOS

#### **AFG Abstracts of papers from foreign conferences**

AFG01 LAPIN, Juraj - FRKÁŇOVÁ, Katarína - GABALCOVÁ, Zuzana. Microstructure evolution during solidification and solid phase transformations in TiAl-based alloy. In *4th International Workshop on Titanium Aluminides : abstract*. - Nürnberg : GfE Metalle und Materialien GmbH, 2011, s.16 - 17/52.

Ohlasy:

[1.1] IMAYEV, V. - OLENEVA, T. - IMAYEV, R. - CHRIST, H.J. - FECHT, H.J. Microstructure and mechanical properties of low and heavy alloyed gamma-TiAl + alpha(2)-Ti3Al based alloys subjected to different treatments. In **INTERMETALLICS**. ISSN 0966-9795, JUL 2012, vol. 26, p. 91-97., WOS

#### **DAI Dissertations and habilitation theses**

DAI01 BERONSKÁ, Naďa. *Metal Matrix Composites Reinforced with High Modulus Carbon Fibres Characterized by High Thermal Conductivity : dizertačné doktorandské práce (PhD.,Dr.)*. Prof.Jozef Janovec, RNDr.Pavol Šebo, DrSc., Ing.František Kolenič, PhD. Trnava, 2009. MtF STU v Trnave.

Ohlasy:

[1.1] KORAB, Juraj - KAVECKY, Stefan - STEFANIK, Pavol - IZDINSKY, Karol - SIMANCIK, Frantisek - DVORAK, Tomas - LONGAUEROVA, M - ZUBKO, P. Microstructure and Thermal Expansion of Hybrid Copper Alloy Composites Reinforced with Both Tungsten and Carbon Fibres. In **METALLOGRAPHY XV**. ISSN 0255-5476, 2014, vol. 782, no., pp. 513-518., WOS

#### **GHG Works published on the internet**

GHG01 GEBURA, Marek. Aplikácia metódy konečných prvkov v materiálovom inžinierstve. In *Materials engineer*. ISSN 1337-8953.

Ohlasy:

[1.1] PAVOL, C. - KAROL, B. - RICHARD, K. - ZUZANA, S. - JOZEF, H. Development of the hexagonal structure in the processes of improving vibration

insulating properties of products. In Development of Industrial Manufacturing.  
ISSN 1660-9336, 2014, vol. 525, p. 536-540., WOS