

## Ohlasy / Citations, reviews

**Institute: SAVELEK - Elektrotechnický ústav SAV**

**Date of citation, review: 2015~2020**

### Citations, reviews

|   |      |
|---|------|
| Citations in Web of Science Core Collection (1.1, 2.1)                          | 7256 |
| Citations in SCOPUS (1.2, 2.2)  | 447  |
| Citations in other citation indexes and databases (not listed above) (3.2, 4.2) | 2    |
| Other citations (not listed above) (3.1, 4.1)                                   | 82   |
| Reviews (5, 6)  | 0    |

**Count**

**7787**

### AAA Scientific monographs published abroad

AAA01 KNEPPO, Ivan - FABIAN, Jozef - BEZOUŠEK, P. - HRNÍČKO, P. - PAVEL, M. *Microwave integrated circuits*. Dordrecht : Springer Sci, 1994. ISBN 978-94-010-4535-3

Ohlasy:

1. [1.1] AWASTHI, Y.K. - SINGH, H. - VERMA, A.K.  
Computer-aided design modeling of microstrip step discontinuity on multilayer iso/anisotropic substrates with transient signal analysis. In SN APPLIED SCIENCES. ISSN 2523-3963, JUL 2019, vol. 1, no. 7., Registrované v: WOS

### ABC Chapters in scientific monographs published abroad

ABC01 ÁČ, V. - PERICHTA, P. - KORYTÁR, Dušan - MIKULÍK, P. Thermal effects under synchrotron radiation power absorption. In *Modern developments in X-ray and neutron optics*. - Berlin : Springer, 2008, p. 513-524. ISBN 978-3-540-74560-0.

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1. [1.1] ORESHKO, A.P. X-Ray Heating of Perfect Crystals: Problem Statement and Analytical Solution. In MOSCOW UNIVERSITY PHYSICS BULLETIN. ISSN 0027-1349, MAY 2020, vol. 75, no. 3, p. 249-256., Registrované v: WOS

ABC02 GÖMÖRY, Fedor - TAKÁCS, Silvester - HOLUBAR, T. - HILSCHER, G. Irreversibility line as line of constant shielding current density. In *Advances in cryogenic engineering materials*. - New York : Plenum Press, 1997, p. 587. ISBN 978-1-4757-9061-0.

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1. [1.1] NIKOLO, M. - SHI, X. - CHOI, E.S. - JIANG, J. - WEISS, J.D. - HELLSTROM, E.E. In JOURNAL OF LOW TEMPERATURE PHYSICS. MAR 2015, vol. 178, no. 5-6, p. 345-354., Registrované v: WOS  
2. [1.1] NIKOLO, M. - SHI, X. - CHOI, E.S. - JIANG, J. - WEISS, J.D.

- HELLSTROM, E.E. In JOURNAL OF LOW TEMPERATURE PHYSICS. FEB 2015, vol. 178, no. 3-4, p. 188-199., Registrované v: WOS  
 3. [1.1] NIKOLO, M. - ZAPF, V.S. - SINGLETON, J. - JIANG, J.Y. - WEISS, J.D. - HELLSTROM, E.E. In JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. NOV 2016, vol. 29, no. 11, p. 2745-2752., Registrované v: WOS

ABC03 GÖMÖRY, Fedor. Responses of high T<sub>c</sub> superconductors to various combinations of SC and DC fields. In *Magnetic susceptibility of superconductors and other spin systems*. - New York : Plenum Press Ltd., 1991, p. 289.

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1. [1.1] ALESHCHENKO, Y. - GORSHUNOV, B. - ZHUKOVA, E. - MURATOV, A. - DUDKA, A. - DULAL, R. - TEKNOVIJOYO, S. - CHAHID, S. - NIKOGHOSYAN, V. - GULIAN, A. Possible superconductivity above 40 K in rhenium-doped strontium ruthenates indicated by Fourier-transform infrared spectroscopy. In PHYSICAL REVIEW RESEARCH. OCT 27 2020, vol. 2, no. 4., Registrované v: WOS

ABC04 KOVÁČ, Ján. AC losses in MgB<sub>2</sub> wires. In *MgB<sub>2</sub> superconducting wires*. - New Jersey : World Sci Publ., 2016, p. 419-438. ISBN 978-981-4725-58-3.

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1. [1.1] YANG, Y.F. - FALORIO, I. - PELEGRIN, J. - YOUNG, E.A. - BALLARINO, A. Transient Thermoelectrical Behavior of MgB<sub>2</sub> Cables in the Superconducting Links for the High Luminosity Upgrade of the LHC In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2017, vol. 27, no. 4., Registrované v: WOS

ABC05 KOVÁČ, Pavol. Effect of mechanical load on J<sub>c</sub> of MgB<sub>2</sub> wires. In *MgB<sub>2</sub> superconducting wires*. - New Jersey : World Sci Publ., 2016, p. 439-454. ISBN 978-981-4725-58-3.

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1. [1.1] AVRONSART, J. - BERRIAUD, C. - CHAUD, X. - HILAIRE, C. - KAZAZI, M. - NARDELLI, D. - TROPEANO, M. Measurements on Critical Current and Bending Strain Tolerance for Ex Situ MgB<sub>2</sub> Wires and Tapes Under High Field up to 8 T. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. APR 2018, vol. 28, no. 3., Registrované v: WOS

ABC06 KRATOŠOVÁ, G. - DĚDKOVÁ, K. - VÁVRA, Ivo - ČIAMPOR, Fedor. Investigation of nanoparticles in biological objects by electron microscopy techniques. In *Intracellular Delivery II : Fundamentals and Applications*. - Springer, 2014, p. 165-187. ISBN 978-94-017-8896-0. Dostupné na: [https://doi.org/10.1007/978-94-017-8896-0\\_8](https://doi.org/10.1007/978-94-017-8896-0_8)

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1. [1.1] KRITCHENKOV, Ilya S. - ZHUKOVSKY, Daniil D. - MOHAMED, Abdelrahman - KORZHIKOV-VLAKH, Viktor A. - TENNIKOVA, Tatiana B. - LAVRENTIEVA, Antonina - SCHEPER, Thomas - PAVLOVSKIY, Vladimir V. - PORSEV, Vitaly V. - EVARESTOV, Robert A. - TUNIK, Sergey P. Functionalized Pt(II) and Ir(III) NIR Emitters and Their Covalent Conjugates with Polymer-Based Nanocarriers. In BIOCONJUGATE

CHEMISTRY. ISSN 1043-1802, 2020, vol. 31, no. 5, pp. 1327-1343.,  
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2. [1.1] REYNOLDS, Nicholas - DEARNLEY, Megan - HINTON, Tracey M. Polymers in the Delivery of siRNA for the Treatment of Virus Infections. In TOPICS IN CURRENT CHEMISTRY. ISSN 2365-0869, 2017, vol. 375, no. 2, pp., Registrované v: WOS

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4. [1.1] VLAKH, E.G. - GRACHOVA, E.V. - ZHUKOVSKY, D.D. - HUBINA, A.V. - MIKHAILOVA, A.S. - SHAKIROVA, J.R. - SHAROYKO, V.V. - TUNIK, S.P. - TENNIKOVA, T.B. In SCIENTIFIC REPORTS. FEB 3 2017, vol. 7., Registrované v: WOS

ABC07 KRATOŠOVÁ, G. - VÁVRA, Ivo - HORSKÁ, K. - ŽITOVSKÝ, O. - NĚMCOVÁ, Y. - BOHUNICKÁ, M. - SLABOTINSKÝ, J. - ROSENBERGOVÁ, K. - KADILAK, A. - SCHRÖFEL, A. Synthesis of metallic nanoparticles and by diatoms and chrysophytes – prospects and applications. In *Green Biosynthesis of Nanoparticles : Mechanisms and Applications*. - Wallingford : CABI, 2013, chap. 5, p. 61. ISBN 978-1-78064-223-9.

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1. [1.1] KORSUNSKY, A.M. - BEDOSHVILI, Y.D. - CVJETINOVIC, J. - AGGREY, P. - DRAGNEVSKI, K.I. - GORIN, D.A. - SALIMON, A.I. - LIKHOSHWAY, Y.V. Siliceous diatom frustules - A smart nanotechnology platform. In MATERIALS TODAY-PROCEEDINGS. ISSN 2214-7853, 2020, vol. 33, 4, SI, p. 2032-2040., Registrované v: WOS

ABC08 LALINSKÝ, Tibor - DRŽÍK, Milan - JAKOVENKO, J. - HUSÁK, M. GaAs thermally based MEMS devices : fabrication techniques, characterization and modeling. In *MEMS/NEMS handbook - techniques and applications*. - Springer, 2005, p. 49-109. ISBN 0-387-24520-0.

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1. [1.1] ROSPRIM, J.P. - WANG, L. - PODVA, D. - MARTIN, E.J.J. - DACHA, P. - HELMS, C.J. - WILCOX, T. - LI, N.Y. - CARSON, R.F. - WARREN, M.E. - LOTT, J.A. In VERTICAL-CAVITY SURFACE-EMITTING LASERS XXI. 2017, vol. 10122., Registrované v: WOS

2. [1.1] WANG, D.B. - GAO, B. - ZHANG, Y. - ZHAO, J. - ZHANG, C.C. - GUO, Y.Y. In MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS. SEP 2016, vol. 22, no. 9, p. 2233-2239., Registrované v: WOS

ABC09 LOBOTKA, Peter - KUNZO, Pavol. Carbon nanoparticles/polymer composites for sensing. In *Handbook of Polymer Nanocomposites : processing, Performance and Application*. Vol. B. Carbon Nanotube Based Polymer Composites. - Berlin : Springer, 2015, p. 577-601. ISBN 978-3-642-45228-4.

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1. [1.1] RIVERA, M. - RAHAMAN, M. - ALDALBAHI, A. - VELAZQUEZ, R. - ZHOU, A.F. - FENG, P.X. In MATERIALS. SEP 2017, vol. 10, no. 9., Registrované v: WOS

- ABC10      PLECENIK, Andrej - GRAJCAR, M. - SEIDEL, P. - BEŇAČKA, Štefan. Investigation of HTS surface properties by tunneling spectroscopy. In *Studies of High-Temperature Superconductors*. - Nova Sci Publ., 1996, p. 75.  
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1. [1.1]      BELOGOLOVSKII, M. - ZHITLUKHINA, E. - EGOROV, O. In LOW TEMPERATURE PHYSICS. NOV 2016, vol. 42, no. 11, p. 1063-1066., Registrované v: WOS  
2. [1.1]      SHAPOVALOV, A. - PRIKHNA, T. - BELOGOLOVSKII, M. - REVENKO, Y. - KORDYUK, A. In PROCEEDINGS OF THE 2017 IEEE 7TH INTERNATIONAL CONFERENCE NANOMATERIALS: APPLICATION & PROPERTIES (NAP). 2017., Registrované v: WOS  
3. [1.1]      WASKIEWICZ, J. Measurement of the thickness of the oxygen-depleted layer in the Ag/YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub>/Ag structures of the electro-resistance memory. In PRZEGLAD ELEKTROTECHNICZNY. 2018, vol. 94, no. 9, p. 99-103., Registrované v: WOS
- ABC11      SEDLÁČKOVÁ, K. - GRASIN, R. - RADNÓCZI, G. Carbon – metal (Ni, Ti) nanocomposite films as protective coatings. In *New research on nanocomposites*. - Nova Sci Pub Inc., 2008, p. 223-246. ISBN 1604567996.  
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1. [1.1]      BALAZSI, K. Magnetron sputtered TiC/a:C nanocomposite thin films: Deposition parameters vs. properties. In VACUUM. JUN 2019, vol. 164, p. 121-125., Registrované v: WOS  
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3. [1.1]      OLAH, N. - FOGARASSY, Z. - FURKO, M. - BALAZSI, C. - BALAZSI, K. Sputtered nanocrystalline ceramic TiC/amorphous C thin films as potential materials for medical applications. In CERAMICS INTERNATIONAL. MAY 2015, vol. 41, no. 4, p. 5863-5871., Registrované v: WOS
- ABC12      ŠIFFALOVÍČ, Peter - VÉGSO, Karol - HODAS, Martin - JERGEL, Matej - HALAHOVETS, Yuriy - PELLETTA, Marco - KORYTÁR, Dušan - ZÁPRAŽNÝ, Zdenko - MAJKOVÁ, Eva. In situ x-ray reciprocal space mapping for characterization of nanomaterials. In *X-ray and neutron techniques for nanomaterials characterization*. - Berlin : Springer, 2016, p. 507-544. ISBN 978-3-662-48604-7. Dostupné na: [https://doi.org/10.1007/978-3-662-48606-1\\_9](https://doi.org/10.1007/978-3-662-48606-1_9)  
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- ABC13      ŠTRBÍK, Vladimír - ADAM, Roman - BEŇAČKA, Štefan - CHROMIK, Štefan. Transport critical current limitation in the oriented and nonoriented Y1Ba<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> thin films. In *Progress in high temperature superconductors*. 30.Vol. - Singapore : World Sci, 1992, p. 366.

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1. [1.1] AKDURAN, Nurcan. In JOURNAL OF LOW TEMPERATURE PHYSICS. DEC 2015, vol. 181, no. 5-6, p. 183-196., Registrované v: WOS

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

ADCA01 AARIK, J. - HUDEC, Boris - HUŠEKOVÁ, Kristína - RAMMULA, R. - KASIKOV, A. - ARROVAL, T. - UUSTARE, T. - FRÖHLICH, Karol. Atomic layer deposition of high-permittivity TiO<sub>2</sub> dielectrics with leakage current on RuO<sub>2</sub> in TiCl<sub>4</sub>-based processes. In *Semiconductor Science and Technology*, 2012, vol. 27, 074007. (2011: 1.723 - IF, Q1 - JCR, 1.008 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0268-1242. Dostupné na: <https://doi.org/10.1088/0268-1242/27/7/074007>

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1. [1.1] BARYSHNIKOVA, M. - FILATOV, L. - MISHIN, M. - UVAROV, A. - KONDRATEVA, A. - ALEXANDROV, S. In PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE. JUL 2015, vol. 212, no. 7, p. 1533-1538., Registrované v: WOS
2. [1.1] DOLLT, M. - REH, M. - METZGER, M. - HEUSEL, G. - KRIEBEL, M. - BUCHER, V. - ZECK, G. Low-Temperature Atomic Layer Deposited Oxide on Titanium Nitride Electrodes Enables Culture and Physiological Recording of Electrogenic Cells. In FRONTIERS IN NEUROSCIENCE. SEP 18 2020, vol. 14., Registrované v: WOS
3. [1.1] KASSMI, M. - POINTET, J. - GONON, P. - BSIESY, A. - VALLEE, C. - JOMNI, F. In JOURNAL OF APPLIED PHYSICS. JUN 28 2016, vol. 119, no. 24., Registrované v: WOS
4. [1.1] NIEMELA, J.P. - MARIN, G. - KARPPINEN, M. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. SEP 2017, vol. 32, no. 9., Registrované v: WOS

ADCA02 AARIK, J. - ARROVAL, T. - AARIK, L. - RAMMULA, R. - KASIKOV, A. - MÄNDAR, H. - HUDEC, Boris - HUŠEKOVÁ, Kristína - FRÖHLICH, Karol. Atomic layer deposition of rutile-phase TiO<sub>2</sub> on RuO<sub>2</sub> from TiCl<sub>4</sub> and O<sub>3</sub>: Growth of high-permittivity dielectrics with low leakage current. In *Journal of Crystal Growth*, 2013, vol. 382, p. 61-66. (2012: 1.552 - IF, Q2 - JCR, 0.954 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0022-0248. Dostupné na: <https://doi.org/10.1016/j.jcrysgro.2013.08.006>

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2. [1.1] GONULLU, M.P. - ATES, H. Investigation of the impact of annealing on the structural, optical and morphological evolution of mixture-phase ALD-TiO<sub>2</sub> films containing brookite. In SUPERLATTICES AND MICROSTRUCTURES. ISSN 0749-6036, NOV 2020, vol. 147., Registrované v: WOS
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4. [1.1] PESSOA, R.S. - DOS SANTOS, V.P. - CARDOSO, S.B. -

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2. [1.1] ATAY, F. - AKYUZ, I. - CERGEL, M.S. - ERDOGAN, B. Production and Characterization of (004) Oriented Single Anatase TiO<sub>2</sub> Films. In JOURNAL OF ELECTRONIC MATERIALS. FEB 2018, vol. 47, no. 2, p. 1601-1610., Registrované v: WOS

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4. [1.1] BAO, Y.M. - LAITINEN, M. - SAJAVAARA, T. - SAVIN, H. In ADVANCED ELECTRONIC MATERIALS. JUN 2017, vol. 3, no. 6, SI., Registrované v: WOS

5. [1.1] BERGHUIS, W.J.H. - MELSKENS, J. - MACCO, B. - BASUVALINGAM, S.B. - VERHEIJEN, M.A. - KESSELS, W.M.M. Atomic layer deposition of Nb-doped TiO<sub>2</sub>: Dopant incorporation and effect of annealing. In JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A. ISSN 0734-2101, MAR 2020, vol. 38, no. 2., Registrované v: WOS

6. [1.1] CERGEL, Muge Soyleyici - ATAY, Ferhunde. The role of the annealing process in different gas environments on the degradation of the methylene blue organic pollutant by brookite-TiO<sub>2</sub> photocatalyst. In IONICS. ISSN 0947-7047, 2019, vol. 25, no. 8, pp. 3823-3836., Registrované v: WOS

7. [1.1] DIGDAYA, I.A. - TRZESNIEWSKI, B.J. - ADHYAKSA, G.W.P. - GARNETT, E.C. - SMITH, W.A. General Considerations for Improving Photovoltage in Metal-Insulator-Semiconductor Photoanodes. In JOURNAL OF PHYSICAL CHEMISTRY C. MAR 15 2018, vol. 122, no. 10, p. 5462-5471., Registrované v: WOS

8. [1.1] DIRNSTORFER, I. - CHOCHAN, T. - JORDAN, P.M. - KNAUT, M. - SIMON, D.K. - BARTHA, J.W. - MIKOLAJICK, T. In IEEE JOURNAL OF PHOTOVOLTAICS. JAN 2016, vol. 6, no. 1, p. 86-91., Registrované v: WOS

9. [1.1] DIRNSTORFER, I. - MIKOLAJICK, T. In NANOMATERIALS FOR SUSTAINABLE ENERGY. 2016, p. 41-94., Registrované v: WOS

10. [1.1] GUERRA-NUNEZ, C. - DOBELI, M. - MICHLER, J. - UTKE, I. In CHEMISTRY OF MATERIALS. OCT 24 2017, vol. 29, no. 20, p.

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11. [1.1] KUKLI, K. - KEMELL, M. - KOYKKA, J. - MIZOHATA, K. - VEHKAMAKI, M. - RITALA, M. - LESKELA, M. In THIN SOLID FILMS. AUG 31 2015, vol. 589, p. 597-604., Registrované v: WOS

12. [1.1] LALE, A. - SCHEID, E. - CRISTIANO, F. - DATAS, L. - REIG, B. - LAUNAY, J. - TEMPLE-BOYER, P. Study of aluminium oxide thin films deposited by plasma-enhanced atomic layer deposition from tri-methyl-aluminium and dioxygen precursors: Investigation of interfacial and structural properties. In THIN SOLID FILMS. NOV 30 2018, vol. 666, p. 20-27., Registrované v: WOS

13. [1.1] LEE, G.H. - SEOL, J.H. - AN, J.K. - YUN, J.Y. - HAHM, S.H. In LOW-DIMENSIONAL NANOSCALE ELECTRONIC AND PHOTONIC DEVICES 9. 2016, vol. 75, no. 11, p. 53-58., Registrované v: WOS

14. [1.1] NIEMELA, J.P. - MARIN, G. - KARPPINEN, M. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. SEP 2017, vol. 32, no. 9., Registrované v: WOS

15. [1.1] SIMON, D.K. - JORDAN, P.M. - KNAUT, M. - CHOCHAN, T. - MIKOLAJICK, T. - DIRNSTORFER, I. In 2015 IEEE 42ND PHOTOVOLTAIC SPECIALIST CONFERENCE (PVSC). 2015., Registrované v: WOS

16. [1.1] TESTONI, G.E. - CHIAPPIM, W. - PESSOA, R.S. - FRAGA, M.A. - MIYAKAWA, W. - SAKANE, K.K. - GALVAO, N.K.A.M. - VIEIRA, L. - MACIEL, H.S. In JOURNAL OF PHYSICS D-APPLIED PHYSICS. SEP 21 2016, vol. 49, no. 37., Registrované v: WOS

17. [1.1] WINZER, A. - SZABO, N. - WACHOWIAK, A. - JORDAN, P.M. - HEITMANN, J. - MIKOLAJICK, T. In JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B. JAN 2015, vol. 33, no. 1., Registrované v: WOS

18. [1.1] YURKEVICH, O. - MAKSIMOVA, K. - GOIKHMAN, A. - GRUNIN, A. - PROKOPOVICH, P. - TYURIN, A. - MEDVEDSKAYA, P. - LYATUN, I. - SNIGIREVA, I. - SNIGIREV, A. In JOURNAL OF SYNCHROTRON RADIATION. JUL 2017, vol. 24, 4, p. 775-780., Registrované v: WOS

19. [1.2] Lee, G.-H., Seol, J.-H., An, J.-K., Yun, J.-Y., Hahm, S.-H. In ECS Transactions Volume 75, Issue 11, 2016, Pages 53-58, Registrované v: SCOPUS

ADCA04 ABERMANN, S. - POZZOVIVO, G. - KUZMÍK, Ján - OSTERMAIER, C. - HENKEL, C. - BETHGE, O. - STRASSER, G. - POGANY, D. - CARLIN, J.-F. - GRANDJEAN, N. - BERTAGNOLLI, E. Current collapse reduction in InAlN/GaN MOS HEMTs by in situ surface pre-treatment and atomic layer deposition of ZrO<sub>2</sub> high-k gate dielectrics. In *Electronics Letters*, 2009, vol. 45, p. 570-572. (2008: 1.140 - IF, Q2 - JCR, 0.789 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0013-5194.

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