

## Ohlasy / Citations, reviews

**Institute: SAVCEMEA - Centrum pre využitie pokročilých materiálov SAV**  
**Date of citation, review: 2015~2020**

### Citations, reviews

Citations in Web of Science Core Collection (1.1, 2.1)	55
Citations in SCOPUS (1.2, 2.2)	1
Citations in other citation indexes and databases (not listed above) (3.2, 4.2)	0
Other citations (not listed above) (3.1, 4.1)	0
Reviews (5, 6)	0
<b>Count</b>	<b>56</b>

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

ADCA01 BALOG, Martin\*\* - ROSOVÁ, Alica - SZUNDIOVÁ, Bronislava - OROVČÍK, Ľubomír - KRÍŽIK, Peter - ŠVEC, Peter Jr. - KULICH, Miloslav - KOPERA, Ľubomír - KOVÁČ, Pavol - HUŠEK, Imrich - IBRAHIM, Ahmed Mohamed Hassan. HITEMAL-an outer sheath material for MgB2 superconductor wires: The effect of annealing at 595-655 degrees C on the microstructure and properties. In *Materials and Design*, 2018, vol. 157, p. 12-23. (2017: 4.525 - IF, Q1 - JCR, 1.820 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0261-3069. Dostupné na: <https://doi.org/10.1016/j.matdes.2018.07.033>

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1. [1.1] KARABOGA, Firat. Role of Cr-coating by electroplating method on fabrication and transport properties of Fe/Cr/MgB2 wires. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*. ISSN 0957-4522, 2020, vol. 31, no. 9, pp. 7141-7149., Registrované v: WOS
2. [1.2] PROKHASKO, Lyubov - PROKHASKO, Yuri - REBEZOV, Maksim - POPOVICH, Aleksey - KHAYRULLIN, Mars - GONCHAROV, Andrey - SOROKIN, Aleksandr - OVSYANNIKOVA, Anna. Development of a mathematical model of the movement of uncompressed plunger with consideration of the non-isothermal fluid flow in the ring gap. In *International Journal of Advanced Science and Technology*. ISSN 20054238, 2020, vol. 29, no. 6, SI, pp. 2668-2676., Registrované v: SCOPUS

ADCA02 BALOG, Martin\*\* - KRÍŽIK, Peter - BAJANA, Otto - HU, Tao - YANG, Hanry - SCHOENUNG, Julie M. - LAVERNIA, Enrique J. Influence of grain boundaries with dispersed nanoscale Al<sub>2</sub>O<sub>3</sub> particles on the strength of Al for a wide range of homologous temperatures. In *Journal of Alloys and Compounds*, 2019, vol. 772, p. 472-481. (2018: 4.175 - IF, Q1 - JCR, 1.065 - SJR, Q1 - SJR,

Current Contents - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2018.09.164>

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1. [1.1] HU, Jianian - ZHANG, Jian - LUO, Guoqiang - SUN, Yi - SHEN, Qiang - ZHANG, Lianmeng. Design and Synthesis of C-O Grain Boundary Strengthening of Al Composites. In NANOMATERIALS, 2020, vol. 10, no. 3, pp. Dostupné na: <https://doi.org/10.3390/nano10030438>., Registrované v: WOS
2. [1.1] KHODABAKHSHI, F. - GERLICH, A. P. On the stability, microstructure, and mechanical property of powder metallurgy Al-SiC nanocomposites during similar and dissimilar laser welding. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, 2019, vol. 759, no., pp. 688-702., Registrované v: WOS
3. [1.1] LI, Lanbo - LI, Ruidi - YUAN, Tiechui - CHEN, Chao - WANG, Mingbo - YUAN, Jiwei - WENG, Qigang. Microstructures and mechanical properties of Si and Zr modified Al-Zn-Mg-Cu alloy-A comparison between selective laser melting and spark plasma sintering. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, 2020, vol. 821, no., pp. Dostupné na: <https://doi.org/10.1016/j.jallcom.2019.153520>., Registrované v: WOS
4. [1.1] NOSKO, M. - STEPANEK, M. - ZIFCAK, P. - OROVCIK, L. - NAGY, S. - DVORAK, T. - OSLANEC, P. - KHODABAKHSHI, F. - GERLICH, A. P. Solid-state joining of powder metallurgy Al-Al<sub>2</sub>O<sub>3</sub> nanocomposites via friction-stir welding: Effects of powder particle size on the weldability, microstructure, and mechanical property. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, 2019, vol. 754, no., pp. 190-204., Registrované v: WOS
5. [1.1] RASOOLPOOR, M. - ANSARI, R. - HASSANZADEH-AGHDAM, M. K. Multiscale analysis of the low-velocity impact behavior of ceramic nanoparticle-reinforced metal matrix nanocomposite beams by micromechanics and finite element approaches. In PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS. ISSN 1464-4207, 2019, vol. 233, no. 12, pp. 2419-2432., Registrované v: WOS
6. [1.1] WANG, Minbo - LI, Ruidi - YUAN, Tiechui - CHEN, Chao - ZHOU, Libo - CHEN, Hui - ZHANG, Mei - XIE, Siyao. Microstructures and mechanical property of AlMgScZrMn A comparison between selective laser melting, spark plasma sintering and cast. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, 2019, vol. 756, no., pp. 354-364., Registrované v: WOS
7. [1.1] XIE, Jian-Feng - LIU, Tian-Shu - LI, Qiang - LI, Qing-Yuan - XU, Zi-Han - QIU, Feng - TANG, Jian - YANG, Hong-Yu - JIANG, Qi-Chuan. Nanoparticulate dispersion, microstructure refinement and strengthening mechanisms in Ni-coated SiCp/Al-Cu nanocomposites. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, 2019, vol. 762, no., pp., Registrované v: WOS

ADCA03 BODIK, Michal\*\* - ANNUŠOVÁ, Adriana - HAGARA, Jakub - MIČUŠÍK, Matej - OMASTOVÁ, Mária - KOTLÁR, Mário - CHLPÍK, Juraj - CIRÁK, Július - ŠVAJDLENKOVÁ, Helena - ANGUŠ, Michal - ROLDÁN, Alicia Marín - VEIS, Pavel - JERGEL, Matej - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter. An elevated concentration of MoS<sub>2</sub> lowers the efficacy of liquid-phase exfoliation and triggers the production of MoO<sub>x</sub> nanoparticles. In *Physical Chemistry Chemical Physics*, 2019, vol. 21, no. 23, p. 12396-12405. (2018: 3.567 - IF, Q1 - JCR, 1.310 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/c9cp01951k>

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1. [1.1] JAWAID, A.M. - RITTER, A.J. - VAIA, R.A. Mechanism for Redox Exfoliation of Layered Transition Metal Dichalcogenides. In *CHEMISTRY OF MATERIALS*. ISSN 0897-4756, AUG 11 2020, vol. 32, no. 15, p. 6550-6565., Registrované v: WOS
2. [1.1] ZHOU, D. - YIN, J.Z. Steer the Rheology of Solvent with Little Surfactant to Exfoliate MoS<sub>2</sub> Nanosheet by Liquid Phase Exfoliation Method. In *NANO*. ISSN 1793-2920, OCT 2020, vol. 15, no. 10, 2050118., Registrované v: WOS

ADCA04 BODIK, Michal\*\* - MAXIAN, Ondrej - HAGARA, Jakub - NÁDAŽDY, Peter - JERGEL, Matej - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter. Langmuir-Scheaffer Technique as a Method for Controlled Alignment of 1D Materials. In *Langmuir*, 2020, vol. 36, no. 16, p. 4540-4547. (2019: 3.557 - IF, Q2 - JCR, 1.088 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.0c00045>

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1. [1.1] HERRER, Lucia - MARTIN, Santiago - CEA, Pilar. Nanofabrication Techniques in Large-Area Molecular Electronic Devices. In *APPLIED SCIENCES-BASEL*, 2020, vol. 10, no. 17, 6064., Registrované v: WOS

ADCA05 BODIK, Michal\*\* - KOVÁČOVÁ, Mária - BANOVSKA, Sara - ŠPITÁLSKY, Zdenko - HELD, Vladimír - JERGEL, Matej - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter. Uniaxial strengthening of the polyamide film by the aligned carbon nanotubes. In *Materials Today Communications*, 2020, vol. 25, art. no. 101432, [5] p. (2019: 2.678 - IF, Q2 - JCR, 0.599 - SJR, Q2 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 2352-4928. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2020.101432>

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1. [1.1] SONI, S.K. - THOMAS, B. - KAR, V.R. A Comprehensive Review on CNTs and CNT-Reinforced Composites: Syntheses, Characteristics and Applications. In *MATERIALS TODAY COMMUNICATIONS*. ISSN 2352-4928, DEC 2020, vol. 25, 101432., Registrované v: WOS

ADCA06 BRNDIAROVÁ, Jana\*\* - ŠIFFALOVÍČ, Peter - HULMAN, Martin - KÁLOSI, Anna - BODIK, Michal - SKÁKALOVÁ, V. - MIČUŠÍK, Matej - MARKOVIČ, Zoran M. - MAJKOVÁ, Eva - FRÖHLICH, Karol. Functionalized graphene transistor for ultrasensitive detection of carbon quantum dots. In *Journal of Applied Physics*, 2019, vol. 126, no. 214303. (2018: 2.328 - IF, Q2 - JCR, 0.746 -

SJR, Q2 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.5120757>

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1. [1.1] HUANG, Chi-Hsien - HUANG, Tzu-Ting - CHIANG, Chia-Heng - HUANG, Wei-Ting - LIN, Yi-Ting. A chemiresistive biosensor based on a layered graphene oxide/graphene composite for the sensitive and selective detection of circulating miRNA-21. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2020, vol. 164, 112320., Registrované v: WOS

ADCA07 ELIÁŠOVÁ SOHOVÁ, Marianna - BODIK, Michal - ŠIFFALOVÍČ, Peter\*\* - BUGÁROVÁ, Nikola - LABUDOVÁ, Martina - ZAŤOVIČOVÁ, Miriam - HIANIK, Tibor - OMASTOVÁ, Mária - MAJKOVÁ, Eva - JERGEL, Matej - PASTOREKOVÁ, Silvia. Label-free tracking of nanosized graphene oxide cellular uptake by confocal Raman microscopy. In *Analyst*, 2018, vol. 143, no. 15, p. 3686-3692. (2017: 3.864 - IF, Q1 - JCR, 1.249 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0003-2654. Dostupné na: <https://doi.org/10.1039/c8an00225h>

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1. [1.1] BALZEROVA, A. - POLAKOVA, K. - MALINA, T. - BELZA, J. - RANC, V. - ZBORIL, R. CELLULAR UPTAKE OF GRAPHENE ACID BY HEL AND HELA CELLS STUDIED BY UV RAMAN SPECTROSCOPY. In 10TH ANNIVERSARY INTERNATIONAL CONFERENCE ON NANOMATERIALS - RESEARCH & APPLICATION (NANOCON 2018 (R)). 2019, p. 566-571., Registrované v: WOS
2. [1.1] KIM, J. - NAM, S.H. - LIM, D.K. - SUH, Y.D. SERS-based particle tracking and molecular imaging in live cells: toward the monitoring of intracellular dynamics. In *NANOSCALE*. ISSN 2040-3364, DEC 7 2019, vol. 11, no. 45, p. 21724-21727., Registrované v: WOS
3. [1.1] KIM, Mina - EOM, Hyun-Jeong - CHOI, Inhee - HONG, Jongki - CHOI, Jinhee. Graphene oxide-induced neurotoxicity on neurotransmitters, AFD neurons and locomotive behavior in *Caenorhabditis elegans*. In *NEUROTOXICOLOGY*. ISSN 0161-813X, 2020, vol. 77, pp. 30-39., Registrované v: WOS
4. [1.1] LI, Yulin - ZHENG, Ling - XIAO, Lan - WANG, Liudi - CUI, Jingyuan - SHA, Dongyong - LIU, Changsheng. Eco-friendly development of an ultrasmall IONP-loaded nanoplatforrm for bimodal imaging-guided cancer theranostics. In *BIOMATERIALS SCIENCE*. ISSN 2047-4830, 2020, vol. 8, no. 22, pp. 6375-6386., Registrované v: WOS
5. [1.1] PIPERNO, A. - MAZZAGLIA, A. - SCALA, A. - PENNISI, R. - ZAGAMI, R. - NERI, G. - TORCASIO, S.M. - ROSMINI, C. - MINEO, P.G. - POTARA, M. - FOCSAN, M. - ASTILEAN, S. - ZHOU, G.G. - SCIORTINET, M.T. Casting Light on Intracellular Tracking of a New Functional Graphene-Based MicroRNA Delivery System by FLIM and Raman Imaging. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, DEC 11 2019, vol. 11, no. 49, p. 46101-46111., Registrované v: WOS
6. [1.1] SORRENTINO, Alessandro - CATALDO, Antonino - CURATOLO, Riccardo - TAGLIATESTA, Pietro - MOSCA, Luciana - BELLUCCI, Stefano. Novel optimized biopolymer-based nanoparticles for nose-to-brain delivery in the treatment of depressive diseases. In *RSC*

ADVANCES, 2020, vol. 10, no. 48, pp. 28941-28949., Registrované v: WOS  
 7. [1.1] ZAHARIE-BUTUCEL, D. - POTARA, M. - SUARASAN, S. -  
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 COLLOID AND INTERFACE SCIENCE. ISSN 0021-9797, SEP 15 2019, vol.  
 552, p. 218-229., Registrované v: WOS

ADCA08 HASSAN IBRAHIM, Ahmed Mohamed - BALOG, Martin\*\* - KRÍŽIK, Peter  
 - NOVY, Frantisek - CETIN, Yuksel - ŠVEC, Peter Jr. - BAJANA, Otto -  
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 ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2020.155663>

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1. [1.1] ZHANG, Siqian - ZHANG, Haoyu - HAO, Junhong - LIU, Jing  
 - SUN, Jie - CHEN, Lijia. Cyclic Stress Response Behavior of Near beta  
 Titanium Alloy and Deformation Mechanism Associated with Precipitated Phase.  
 In METALS, 2020, vol. 10, no. 11, 1482., Registrované v: WOS

ADCA09 HNATKO, Miroslav\*\* - HIČÁK, Michal - LABUDOVÁ, Martina -  
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 Contents). ISSN 0955-2219. Dostupné na:  
<https://doi.org/10.1016/j.jeurceramsoc.2019.12.053>

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1. [1.1] BALESTRAT, Maxime - LALE, Abhijeet - BEZERRA, Andre  
 Vinicius Andrade - PROUST, Vanessa - AWIN, Eranezhuth Wasan -  
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 Characterization of Nanocomposites in the Si-Ti-N and Si-Ti-C Systems. In  
 MOLECULES, 2020, vol. 25, no. 22, pp. Dostupné na:  
<https://doi.org/10.3390/molecules25225236>., Registrované v: WOS

ADCA10 HOFBAUEROVÁ, Monika, Benkovičová\*\* - HOLOŠ, Ana - NÁDAŽDY,  
 Peter - HALAHOVETS, Yuriy - KOTLÁR, Mário - KOLLÁR, Jozef -  
ŠIFFALOVÍČ, Peter - JERGEL, Matej - MAJKOVÁ, Eva - MOSNÁČEK, Jaroslav  
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 3.567 - IF, Q1 - JCR, 1.310 - SJR, Q1 - SJR, Current Contents - CCC). (2019 -  
 Current Contents). ISSN 1463-9076. Dostupné na:  
<https://doi.org/10.1039/c9cp02064k>

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1. [1.1] HAYASHI, Taichi - HIRAKAWA, Yuya - INOUE, Satoru -  
 ARAI, Shunto - HASEGAWA, Tatsuo. Anomalous Hydrodynamic Size  
 Distributions of Alkylamine/Alkylacid-Encapsulated Silver Nanocolloids:  
 Implications for Printing Ultrafine Conductive Patterns. In ACS APPLIED

NANO MATERIALS. ISSN 2574-0970, 2020, vol. 3, no. 7, pp. 6884-6891.,  
Registrované v: WOS

2. [1.1] REIK, M. - CALABRO, M. - GRIESEMER, S. - BARRY, E. -  
BU, W. - LIN, B. - RICE, S.A. The influence of fractional surface coverage on  
the core-core separation in ordered monolayers of thiol-ligated Au nanoparticles.  
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8800-8807., Registrované v: WOS

ADCA11 HOFBAUEROVÁ, Monika, Benkovičová - KISOVÁ, Zuzana - BUČKOVÁ,  
Mária - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter - PANGALLO, Domenico\*\*. The  
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different material surfaces. In *Coatings*, 2019, vol. 9, no. 3, p. 176. (2018: 2.330 - IF,  
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1. [1.1] KAPICA, Ryszard - MARKIEWICZ, Justyna -  
TYCZKOWSKA-SIERON, Ewa - FRONCZAK, Maciej - BALCERZAK, Jacek  
- SIELSKI, Jan - TYCZKOWSKI, Jacek. Artificial Superhydrophobic and  
Antifungal Surface on Goose Down by Cold Plasma Treatment. In COATINGS,  
2020, vol. 10, no. 9, 904., Registrované v: WOS

ADCA12 HUSS-HANSEN, M.K.\*\* - HODAS, Martin - MRKÝVKOVÁ, Nad'a,  
Tesařová - HAGARA, Jakub - JENSEN, B. B. E. - OSADNIK, A. - LÜTZEN, A. -  
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Alignment of Naphthyl End-Capped Oligothiophene on Graphene: Thin-Film  
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1898–1906. (2019: 3.557 - IF, Q2 - JCR, 1.088 - SJR, Q1 - SJR, Current Contents -  
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<https://doi.org/10.1021/acs.langmuir.9b03467>

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2. [1.1] HATTORI, Yoshiaki - KITAMURA, Masatoshi. Crystal  
Orientation Imaging of Organic Monolayer Islands by Polarized Light  
Microscopy. In ACS APPLIED MATERIALS & INTERFACES. ISSN  
1944-8244, 2020, vol. 12, no. 32, pp. 36428-36436., Registrované v: WOS

ADCA13 KÁLOSI, Anna - DEMYDENKO, Maksym - BODIK, Michal - HAGARA,  
Jakub - KOTLÁR, Mário - KOSTIUK, Dmytro - HALAHOVETS, Yuriy - VÉGSO,  
Karol - ROLDAN, Alicia Marin - MAURYA, Gulab Singh - ANGUS, Michal -  
VEIS, Pavel - JERGEL, Matej - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter\*\*. Tailored Langmuir-Schaefer Deposition of Few-Layer MoS<sub>2</sub> Nanosheet Films for  
Electronic Applications. In *Langmuir*, 2019, vol. 35, no. 30, p. 9802-9808. (2018:  
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2. [1.1] HARRIES, Rhiannon W. - BROWN, Christopher J. - OGILVIE, Sean P. - LARGE, Matthew J. - GRAF, Aline Amorim - CLIFFORD, Keiran - SIMON, Thomas - GIAMAS, Georgios - DALTON, Alan B. - KING, Alice A. K. Langmuir Films of Layered Nanomaterials: Edge Interactions and Cell Culture Applications. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2020, vol. 124, no. 33, pp. 7184-7193., Registrované v: WOS
3. [1.1] KAZAK, Alexandr - MARCHENKOVA, Margarita A. - SMIRNOVA, Antonina - SEREGIN, Alexey Yu - ROGACHEV, Alexandr - KLECHKOVSKAYA, Vera V. - ARKHAROVA, Natalia A. - WARIAS, Jonas E. - MURPHY, Bridget M. - TERESCHENKO, Elena Yu - USOL'TSEVA, Nadezhda - KOVALCHUK, Mikhail. Floating layers and thin films of mesogenic mix-substituted phthalocyanine holmium complex. In THIN SOLID FILMS. ISSN 0040-6090, 2020, vol. 704, 137952., Registrované v: WOS
4. [1.1] ZHANG, Xixia - TENG, Sin Yong - LOY, Adrian Chun Minh - HOW, Bing Shen - LEONG, Wei Dong - TAO, Xutang. Transition Metal Dichalcogenides for the Application of Pollution Reduction: A Review. In NANOMATERIALS, 2020, vol. 10, no. 6, 1012., Registrované v: WOS
5. [1.1] ZHOU, Dan - YIN, Jianzhong. Steer the Rheology of Solvent with Little Surfactant to Exfoliate MoS<sub>2</sub> Nanosheet by Liquid Phase Exfoliation Method. In NANO. ISSN 1793-2920, 2020, vol. 15, no. 10, 2050118., Registrované v: WOS

ADCA14 KARKI, Akchheta - VOLLBRECHT, Joachim - GILLET, Alexander J. - SELTER, Philipp - LEE, Jaewon - PENG, Zhengxing - SCHOPP, Nora - DIXON, Alana L. - SCHROCK, Max - NÁDAŽDÝ, Vojtech - SCHAUER, Franz - ADE, Harald - CHMELKA, Bradley F. - BAZAN, Guillermo C. - FRIEND, Richard H. - NGUYEN, Thuc-Quyen\*\*. Unifying Charge Generation, Recombination, and Extraction in Low-Offset Non-Fullerene Acceptor Organic Solar Cells. In *Advanced Energy Materials*, 2020, vol. 10, no. 29, 2001203. (2019: 25.245 - IF, Q1 - JCR, 9.513 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 1614-6832. Dostupné na: <https://doi.org/10.1002/aenm.202001203>

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