

Riešiteľ	BÓNOVÁ Lucia
Pozícia na projekte	Vedecko-výskumný pracovník
Vedecké identifikátory	WoS (Researcher ID): CGY-9741-2022, Scopus (AuthorID): 25824695500, RCID:
Vedecké zameranie	plazmové technológie , analýza materiálov pomocou rôznych diagnostických metód
Publikačná činnosť s ohlasmí (aktuálne k 31.10.2022)	
V3 Vedecký výstup publikačnej činnosti z časopisu	
V3_01	<p>BÓNOVÁ, Lucia - ZHU, Weikun - PATEL, Dhruval K. - KROGSTAD, Daniel V. - RUZIC, David N. Atmospheric pressure microwave plasma for aluminum surface cleaning. In <i>Journal of vacuum science and technology. Part A. Vacuum, surfaces and films</i>. Vol. 38, iss. 2 (2020), s. 1-6. ISSN 0734-2101 (2020: 2.427 - IF, Q3 - JCR Best Q, 0.583 - SJR, Q2 - SJR Best Q). V databáze: DOI: 10.1116/1.5132912 ; SCOPUS: 2-s2.0-85078288757 ; WOS: 000515504700001 ; CC: 000515504700001.</p> <p>Katégória publikácie do 2021: ADC</p> <p>Ohlasy:</p> <ol style="list-style-type: none"> [1] SAMAEI, Arash - CHAUDHURI, Santanu. Multiphysics modeling of metal surface cleaning using atmospheric pressure plasma. In <i>Journal of Applied Physics</i>, 2020, 128, 5, pp. ISSN 00218979., Registrované v: SCOPUS, WOS, CC [1] JIE, Ziyao - LIU, Cheng - HUANG, Shiyang - ZHANG, Guixin. Mechanisms of gas temperature variation of the atmospheric microwave plasma torch. In <i>Journal of Applied Physics</i>, 2021, 129, 23, pp. ISSN 00218979., Registrované v: SCOPUS, WOS, CC <p>Ohlas: zahraničný</p>
V3_02	<p>JECKELL, Zachary - PATEL, Dhruval - HERSCHBERG, Andrew - CHOI, Tag - BARLAZ, David - BÓNOVÁ, Lucia - SHCHELKANOV, Ivan - JURCZYK, Brian - RUZIC, David. Silicon Dioxide Deposited Using Atmospheric Pressure Plasma Chemical Vapor Deposition for Improved Adhesion and Water Intrusion Resistance for Lightweight Manufacturing. In <i>Surfaces and Interfaces</i>. Vol. 23, (2021), s. 1-8. ISSN 2468-0230 (2021: 6.137 - IF, Q1 - JCR Best Q, 0.742 - SJR, Q1 - SJR Best Q). V databáze: DOI: 10.1016/j.surfin.2021.100989 ; SCOPUS: 2-s2.0-85101307648 ; WOS: 000635441600006 ; CC: 000635441600006.</p> <p>Typ výstupu: článok; Výstup: zahraničný; Kategória publikácie do 2021: ADC</p>
V3_03	<p>PATEL, Dhruval K. - BÓNOVÁ, Lucia - JECKELL, Zachary - BARLAZ, David - CHAUDHURI, Santanu - KROGSTAD, Daniel V. - RUZIC, David N. Deposition of zirconium oxide using atmospheric pressure plasma enhanced chemical vapor deposition with various precursors. In <i>Thin Solid Films</i>. Vol. 733, (2021), s. 1-8. ISSN 0040-6090 (2021: 2.358 - IF, Q3 - JCR Best Q, 0.468 - SJR, Q2 - SJR Best Q). V databáze: DOI: 10.1016/j.tsf.2021.138815 ; SCOPUS: 2-s2.0-85110070527 ; WOS: 000677921500004 ; CC: 000677921500004.</p> <p>Typ výstupu: článok; Výstup: zahraničný; Kategória publikácie do 2021: ADC</p> <p>Ohlasy:</p> <ol style="list-style-type: none"> [1] SETIAWAN, U. H. - NURCAHYO, I. F. - SARASWATI, T. E. Atmospheric pressure plasma jet for surface material modification: A mini-review. In <i>Journal of Physics: Conference Series</i>, 2022-03-28, 2190, 1, pp. ISSN 17426588., Registrované v: SCOPUS <p>Ohlas: zahraničný</p>
O2 Odborný výstup publikačnej činnosti ako časť knižnej publikácie alebo zborníka	
O2_01	<p>BÓNOVÁ, Lucia - BOHOVIČOVÁ, Jana - HALANDA, Juraj - IVAN, Jozef - MEŠKO, Marcel. Fundamental plasma processes in the next generation of combined PIII-HiPIMS implantation and deposition technique. In <i>International scientific conference on advances in mechanical engineering [elektronický zdroj] : Proceedings of the 4th International scientific conference on advances in mechanical engineering (ISCAME 2016)</i>, 13. - 15. October, 2016, Debrecen, Hungary. 1. vyd. Debrecen : University of Debrecen, 2016, online, s. 57-63. ISBN 978-963-473-944-9.</p> <p>Katégória publikácie do 2021: BEE</p>
XXX XXX	
_01	<p>BÓNOVÁ, Lucia - BOHOVIČOVÁ, Jana - HALANDA, Juraj - MUŠKA, Martin - MEŠKO, Marcel. Plasma requirements for vertically aligned carbon nanowalls synthesis. In <i>ICRP-9/GEC-68/SPP-33. Conference proceedings. October 12-16, 2015, Honolulu, USA [CD-ROM]</i>. 1. vyd. b.m. : Japan Society of Applied Physics, 2015, CD-ROM, s.[2]. ISBN 978-4-86348-529-7.</p> <p>Katégória publikácie do 2021: AFC</p>
_02	<p>BÓNOVÁ, Lucia - ZAHORANOVA, Anna - KOVACIK, Dusan - CERNAK, Mirko. Deposition of polymer films on aluminium surface using atmospheric-pressure plasma. In <i>CHEMISKE LISTY</i>. Vol. 106, no. (2012), pp. S1431-S1434. V databáze: WOS: 000324813100003 ; DOI.</p> <p>Ohlasy:</p> <ol style="list-style-type: none"> [1] ZHANG, Ying - LI, Jie - LU, Na - SHANG, Kefeng - MIZUNO, Akira - WU, Yan. Evaluation of discharge uniformity and area in surface dielectric barrier discharge at atmospheric pressure. In <i>VACUUM</i>, 2016, vol. 123, no., pp. 49-53. ISSN 0042-207X., Registrované v: WOS, CC, SCOPUS [1] ZHANG, Ying - LI, Jie - JIANG, Nan - SHANG, Ke-Feng - LU, Na - WU, Yan. Optical characteristics of the filamentary and diffuse modes in surface dielectric barrier discharge. In <i>SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY</i>, 2016, vol. 168, no., pp. 230-234. ISSN 1386-1425., Registrované v: WOS, CC, SCOPUS

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3. [1] JIANG, Nan - GUO, Lianjie - SHANG, Kefeng - LU, Na - LI, Jie - WU, Yan. Discharge and optical characterizations of nanosecond pulse sliding dielectric barrier discharge plasma for volatile organic compound degradation. In *JOURNAL OF PHYSICS D-APPLIED PHYSICS*, 2017, vol. 50, no. 15, pp. ISSN 0022-3727., Registrované v: WOS, CC, SCOPUS

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4. [1] STLOUKAL, Petr - NOVAK, Igor - MICUSIK, Matej - PROCHAZKA, Michal - KUCHARCZYK, Pavel - CHODAK, Ivan - LEHOCKY, Marian - SEDLARIK, Vladimir. Effect of plasma treatment on the release kinetics of a chemotherapy drug from biodegradable polyester films and polyester urethane films. In *INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS*, 2018, vol. 67, no. 3, pp. 161-173. ISSN 0091-4037., Registrované v: WOS, SCOPUS

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BÓNOVÁ, Lucia - BUCEK, Andrej - PLECENIK, Tomas - ZAHORANOVA, Anna - CERNAK, Mirko. CLEANING OF ALUMINIUM SURFACE USING DIFFUSE COPLANAR SURFACE BARRIER DISCHARGE. In *CHEMICKÉ LISTY*. Vol. 102, no. (2008), pp. S1452-S1454. V databáze: WOS: 000208452600033 ; DOI.

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1. [1] MUI, T. S. M. - SILVA, L. L. G. - PRYSIAZHNYI, V. - KOSTOV, K. G. Polyurethane paint adhesion improvement on aluminium alloy treated by plasma jet and dielectric barrier discharge. In *JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY*, 2016, vol. 30, no. 2, pp. 218-229. ISSN 0169-4243., Registrované v: WOS, CC, SCOPUS

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BÓNOVÁ, Lucia - ZAHORANOVA, Anna - KOVACIK, Dusan - ZAHORAN, Miroslav - MICUSIK, Matej - CERNAK, Mirko. Atmospheric pressure plasma treatment of flat aluminum surface. In *APPLIED SURFACE SCIENCE*. Vol. 331, no. (2015), pp. 79-86. V databáze: WOS: 000350145700011 ; DOI: 10.1016/j.apsusc.2015.01.030.

Ohlasy:

1. [1] MUI, T. S. M. - SILVA, L. L. G. - PRYSIAZHNYI, V. - KOSTOV, K. G. Polyurethane paint adhesion improvement on aluminium alloy treated by plasma jet and dielectric barrier discharge. In *JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY*, 2016, vol. 30, no. 2, pp. 218-229. ISSN 0169-4243., Registrované v: WOS, CC, SCOPUS

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2. [1] STEPANOVA, Vlasta - SLAVICEK, Pavel - VALTR, Miroslav - BURSICOVA, Vilma - STUPAVSKA, Monika. IMPROVEMENT OF GLASS WETTABILITY USING DIFFUSE COPLANAR SURFACE BARRIER DISCHARGE AND GLIDING ARC CONSIDERING AGING EFFECT. In *NANOCON 2015: 7TH INTERNATIONAL CONFERENCE ON NANOMATERIALS RESEARCH & APPLICATION*, 2015, vol., no., pp. 321-326., Registrované v: WOS, SCOPUS

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3. [1] PETISCO-FERRERO, S. - SANCHEZ-ILARDUYA, M. B. - DIEZ, A. - MARTIN, L. - MEAURIO ARRATE, E. - SARASUA, J. R. Surface functionalization of an osteoconductive filler by plasma polymerization of poly(ϵ -caprolactone) and poly(acrylic acid) films. In *APPLIED SURFACE SCIENCE*, 2016, vol. 386, no., pp. 327-336. ISSN 0169-4332., Registrované v: WOS, CC, SCOPUS

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4. [1] CHEN, Cheng - JIA, Lixia - LIU, Rui - CHEN, Xingyu - JIN, Chongye - LIU, Heping - FENG, Cunfu - ZHANG, Chuyang - QIU, Yiping. The Effects of Humidity on the Surface Modification of Wool Fabric through Atmospheric Pressure Plasma Jet. In *FIBERS AND POLYMERS*, 2016, vol. 17, no. 8, pp. 1181-1185. ISSN 1229-9197., Registrované v: WOS, SCOPUS

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5. [1] HATUI, Goutam - NAYAK, Ganesh Chandra - UDAYABHANU, G. One Pot Solvothermal Synthesis of Sandwich-like Mg Al Layered Double Hydroxide anchored Reduced Graphene Oxide: An excellent electrode material for Supercapacitor. In *ELECTROCHIMICA ACTA*, 2016, vol. 219, no., pp. 214-226. ISSN 0013-4686., Registrované v: WOS, CC, SCOPUS

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6. [1] MUÑOZ, J. - BRAVO, J. A. - CALZADA, M. D. - RINCÓN, R. - MELERO, C. - GONZÁLEZ-GAGO, C. Cleaning and activation of aluminium metal using an atmospheric-pressure postdischarge. In *44th EPS Conference on Plasma Physics, EPS 2017*, 2017, pp., Registrované v: SCOPUS

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7. [1] LIU, Jiyu - LIU, Shuo - CHEN, Faze - WANG, Guansong - SUN, Jin - SONG, Jinlong - HUANG, Liu - ZHENG, Huanxi - JIN, Zhuji - LIU, Xin. Long-lasting oil wettability patterns fabrication on superoleophobic surfaces by atmospheric pressure DBD plasma jet. In *MICRO & NANO LETTERS*, 2017, vol. 12, no. 12, pp. 1000-1005. ISSN 1750-0443., Registrované v: WOS, CC, SCOPUS

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10. [1] MUNOZ, J. - BRAVO, J. A. - CALZADA, M. D. Aluminum metal surface cleaning and activation by atmospheric-pressure remote plasma. In *APPLIED SURFACE SCIENCE*, 2017, vol. 407, no., pp. 72-81. ISSN 0169-4332., Registrované v: WOS, CC, SCOPUS

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12. [1] MUI, T. S. M. - SILVA, L. L. G. - PRYSIAZHNYI, V. - KOSTOV, K. G. Surface modification of aluminium alloys by atmospheric pressure plasma treatments for enhancement of their adhesion properties. In SURFACE & COATINGS TECHNOLOGY, 2017, vol. 312, no., pp. 32-36. ISSN 0257-8972., Registrované v: WOS, CC, SCOPUS

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13. [1] GOCMEN, Julide Sedef - HORTAC ISTAR, Elvan - COKELILER, Dilek - MUTLU, Mehmet - KALELI CAN, Gizem - ALPARSLAN, Sezin - CETIN, Ceren - KARTAL, Naz - OZCELIK, Ugur Can - AYCAN, Cagri. Biofilm Formation Research of Coagulase-Negative Staphylococci Isolates' Isolated from Blood and Hand Culture at Nanofilm Covered Micro Plaques by Plasma Polymerization Technique: An Experimental Model. In FLORA INFEKSIYON HASTALIKLARI VE KLINIK MIKROBIYOLOJII DERGISI, 2017, vol. 22, no. 4, pp. 166-174., Registrované v: WOS

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14. [1] WANG, Xun - LIN, Jian-ping - MIN, Jun-ying - WANG, Pei-Chung - SUN, Cheng-cheng. Effect of atmospheric pressure plasma treatment on strength of adhesive-bonded aluminum AA5052. In JOURNAL OF ADHESION, 2018, vol. 94, no. 9, pp. 701-722. ISSN 0021-8464., Registrované v: WOS, CC, SCOPUS

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15. [1] LIU, Jiyu - SONG, Jinlong - WANG, Guansong - CHEN, Faze - LIU, Shuo - YANG, Xiaolong - SUN, Jing - ZHENG, Huanxi - HUANG, Liu - JIN, Zhuji - LIU, Xin. Maskless Hydrophilic Patterning of the Superhydrophobic Aluminum Surface by an Atmospheric Pressure Microplasma Jet for Water Adhesion Controlling. In ACS APPLIED MATERIALS & INTERFACES, 2018, vol. 10, no. 8, pp. 7497-7503. ISSN 1944-8244., Registrované v: WOS, CC, SCOPUS

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17. [1] KUOK, Fei-Hong - CHIEN, Hung-Hua - LEE, Chia-Chun - HAO, Yu-Chuan - YU, Ing-Song - HSU, Cheng-Che - CHENG, I-Chun - CHEN, Jian-Zhang. Atmospheric-pressure-plasma-jet processed carbon nanotube (CNT)-reduced graphene oxide (rGO) nanocomposites for gel-electrolyte supercapacitors. In RSC ADVANCES, 2018, vol. 8, no. 6, pp. 2851-2857., Registrované v: WOS, CC, SCOPUS

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18. [1] JEONG, Yesul - LEE, Hyun Uk - PEARSON, Christopher - PETTY, Michael C. Short Channel Effect of Solution-Processed ZnO Thin Film Transistors: Optimization for Photolithographic Process. In NANOSCIENCE AND NANOTECHNOLOGY LETTERS, 2018, vol. 10, no. 5-6, pp. 754-760. ISSN 1941-4900., Registrované v: WOS, CC

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21. [1] SUN, Chengcheng - MIN, Junying - LIN, Jianping - WAN, Hailang. Effect of Atmospheric Pressure Plasma Treatment on Adhesive Bonding of Carbon Fiber Reinforced Polymer. In POLYMERS, 2019, vol. 11, no. 1, pp., Registrované v: WOS, CC, SCOPUS

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24. [1] LEE, Namseok - YOO, SoonSung - KIM, Chul Ho - LIM, Jiseok. Development of continuous metal patterns using two-dimensional atmospheric-pressure plasma-jet: on application to fabricate electrode on a flexible surface for film touch sensor. In JOURNAL OF MICROMECHANICS AND MICROENGINEERING, 2019, vol. 29, no. 4, pp. ISSN 0960-1317., Registrované v: WOS, CC, SCOPUS

Ohlas: zahraničný

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27. [1] ZHU, Chuanmin - WAN, Hailang - MIN, Junying - MEI, Yu - LIN, Jianping - CARLSON, Blair E. - MADDELA, Surrender. Application of pulsed Yb: Fiber laser to surface treatment of Al alloys for improved adhesive bonded performance. In *Optics and Lasers in Engineering*, 2019, 119, pp. 65-76. ISSN 01438166., Registrované v: SCOPUS

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29. [1] UMRETIYA, Rajnikant V. - VARGAS, Santiago - GALEANO, Diana - MOHAMMADI, Reza - CASTANO, Carlos E. - ROJAS, Jessika V. Effect of surface characteristics and environmental aging on wetting of Cr-coated Zircaloy-4 accident tolerant fuel cladding material. In *Journal of Nuclear Materials*, 2020, 535, pp. ISSN 00223115., Registrované v: SCOPUS, WOS, CC

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37. [1] NIU, C. N. - HAN, J. Y. - HU, S. P. - CHAO, D. Y. - SONG, X. G. - HOWLADER, M. M.R. - CAO, J. Fast and environmentally friendly fabrication of superhydrophilic-superhydrophobic patterned aluminum surfaces. In *Surfaces and Interfaces*, 2021, 22, pp. ISSN 24680230., Registrované v: SCOPUS, WOS, CC

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41. [1] LI, Yuhai - BAI, Qingshun - GUAN, Yuheng - ZHANG, Peng - SHEN, Rongqi - LU, Lihua - LIU, Hao - YUAN, Xiaodong - MIAO, Xinxiang - HAN, Wei - YAO, Caizhen. In situ plasma cleaning of large-aperture optical components in ICF. In *NUCLEAR FUSION*, 2022, vol. 62, no. 7, pp. ISSN 0029-5515., Registrované v: WOS, SCOPUS

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O2	O2	1
V3	V3	3
XXX	Nezaradené	8
Súčet		12

Štatistika: kategória ohlasov

1	Citácie v zahraničných publikáciách, registrované v citačných indexoch Web of Science a databáze SCOPUS	47
Súčet		47