

ARTICOLE 2023

1. M. Mogildea, G. Mogildea, S.I. Zgura, D. Craciun, N. Mihăilescu, Petronela Prepelita, L. Mihai, M. C. Bazavan, V. Bercu, L. C. Gebac, R. Maier, B. S. Vasile and V. Craciun, A New Method for Tungsten Oxide Nanopowder Deposition on Carbon-Fiber-Reinforced Polymer Composites for X-ray Attenuation, *Nanomaterials*, 2023, 13, 3071, 1-16.
2. Mogildea, G; Mogildea, M; Zgura, SI; Craciun, D; Popa, C; Prepelita, P; Bazavan, MC; Craciun, V, The assessment of the atmospheric air breakdown voltage generated by the interaction between microwaves and metallic wires, *PHYSICA SCRIPTA*, Volume98, Issue4, Article Number045508, PublishedAPR 1 2023
3. Chiang, CC, Xia, XY; Craciun, V; Rocha, MG; Camargo, SEA; Rocha, FRG; Gopalakrishnan, SK; Ziegler, KJ; Ren, F; Esquivel-Upshaw, JF, Enhancing the Hydrophobicity and Antibacterial Properties of SiCN-Coated Surfaces with Quaternization to Address Peri-Implantitis, *Materials*, Volume16Issue17, 1, Article Number, 5751, Published SEP 2023
4. Matei, T; Tiron, V; Jijie, R; Bulai, G; Velicu, IL; Cristea, D; Craciun, V, Band-gap engineering of zirconia by nitrogen doping in reactive HiPIMS: a step forward in developing innovative technologies for photocatalysts synthesis, *FRONTIERS IN CHEMISTRY*, Volume11, , Article Number 1239964, Published AUG 10 2023
5. Ramdane, H ; Benaïoun, N; Guezzoul, M; Moulayat, N; Craciun, V, Investigation of the corrosion-preventing properties of nickel-coated austenitic stainless steel (AISI 304) in NaOH and NaOH+10% NaCl solutions, *INORGANIC CHEMISTRY COMMUNICATIONS*, Volume152, Article Number110671, PublishedJUN 2023
6. Moga, S; Malinovschi, V; Marin, A; Coaca, E; Negrea, D; Craciun, V; Lungu, M, Mechanical and corrosion-resistant coatings prepared on AZ63 Mg alloy by plasma electrolytic oxidation, *SURFACE & COATINGS TECHNOLOGY*, Volume462, Article Number129464, Published JUN 15 2023
7. Roy, M; Sarkar, K; Som, J; Pfeifer, MA; Craciun, V; Schall, JD; Aravamudhan, S; Wise, FW; Kumar, D, Modulation of Structural, Electronic, and Optical Properties of Titanium Nitride Thin Films by Regulated In Situ Oxidation, *ACS APPLIED MATERIALS & INTERFACES*, Volume15, Issue3, Page4733-4742, PublishedJAN 25 2023
8. Li, JS; Xia, XY; Chiang, CC; Hays, DC; Gila, BP; Craciun, V; Ren, F; Pearton, SJ, Deposition of sputtered NiO as a p-type layer for heterojunction diodes with Ga₂O₃, *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A*, Volume41, Issue1, Article Number013405, PublishedJAN 2023
9. Udrea, R; Irimiciuc, SA; Craciun, V, Subthreshold Laser Ablation Measurements by Langmuir Probe Method for ns Irradiation of HfO₂ and ZrO₂, *MATERIALS*, Volume16, Issue2, Article Number536, PublishedJAN 2023
10. Hermann, J; Gerhard, C; Burger, M; Craciun, V; Pelascini, F, Progress in calibration-free laser-induced breakdown spectroscopy, *SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY*, Volume200, , Article Number, 106595, Published FEB 2023
11. Zikmund, T; Bulir, J; Novotny, M; Fekete, L; Chertopalov, S; Irimiciuc, SA; Klementova, M; Balogova, J; Lancok, J, Silver Nanoparticles for Fluorescent Nanocomposites by High-Pressure Magnetron Sputtering, *MATERIALS*, Volume16, Issue4, Article Number1591, , PublishedFEB 2023

12. Volfova, L; Irimiciuc, SA; Chertopalov, S; Hruska, P; Cizek, J; Vondracek, M; Novotny, M; Butterling, M; Liedke, MO; Wagner, A; Lancok, J Tailoring pulsed laser deposition fabricated copper oxide film by controlling plasma parameters, APPLIED SURFACE SCIENCE, Volume608, Article Number155128, Published JAN 15 2023
13. P. Pokorný, M. Novotný, P. Fitl, Y. Dekhtyar, J. More-Chevalier, S. Chertopalov, J. Remsa, S. Irimiciuc, M. Vršata, and J. Lančok, Thermally Stimulated Exo-Electron Emission and Desorption from Lu₂O₃:Eu³⁺ Surfaces, Opt Mater (Amst) 137, 113556 (2023).
14. Vasiliu, IC; Filip, AV; Chilibon, I; Elisa, M; Bartha, C; Kuncser, V; Leca, A; Boroica, L; Sava, BA; Trusca, R; Eftimie, M; Nicoara, A, Effect of P₂O₅ Content on Luminescence of Reduced Graphene-Oxide-Doped ZnO-P₂O₅ Nano-Structured Films Prepared via the Sol-Gel Method, MATERIALS, Volume16, Issue18, , Article Number 6156 Published SEP 2023
15. Filip, AV; Trefilov, AMI; Boroica, L; Dinca, MC; Elisa, M; Vasiliu, IC; Tigau, N; Brajnicov, S; Dumitru, M; Luculescu, C; Graphene oxide- boro-phosphate glass nano-composite thin films synthesized by sol-gel spin coating method, JOURNAL OF NON-CRYSTALLINE SOLIDS, Volume613, Article Number 122372, Published, AUG 1 2023
16. Surmeli, SAC, Stelu. A.; Vidu, L; Marin, MP; Sava, BA; Nicolae, CG, Zeolite Filters - Tools to Improve Water Quality in Recirculating Systems in Aquaculture, SCIENTIFIC PAPERS-SERIES D-ANIMAL SCIENCE, Volume66Issue1, Published 2023
17. Mihai Eftimie, Ana Violeta Filip, Cristian Beniamim Danescu, Andrei Nitescu, Bogdan Alexandru Sava, Obtaining and conductive properties of a vanadate-boratephosphate glass”, Scientific Reports, 13, 16054, 1-11, 2023.
18. Mihail Elisa, Bogdan Alexandru Sava, Mihai Eftimie, Adrian Ionut Nicoara, Ileana Cristina Vasiliu, Madalin Ion Rusu, Cristina Bartha, Monica Enculescu, Andrei Cristian Kuncser, Mihai Oane, César Elosúa Aguado, Diego Lopez, Nanocomposite Sol-Gel Film based on PbS Quantum Dots Embedded into an Amorphous Host Inorganic Matrix”, Materials 16, 7105 (1-14) 2023
19. Dorcioman, G; Grumezescu, V; Stan, GE; Chifiriuc, MC; Gradisteanu, GP; Miculescu, F; Matei, E; Popescu-Pelin, G; Zgura, I; Craciun, V; Oktar, FN; Duta, L, Hydroxyapatite Thin Films of Marine Origin as Sustainable Candidates for Dental Implants, PHARMACEUTICS, Volume15, Issue4, Article Number1294, DOI10.3390/pharmaceutics15041294, PublishedAPR 2023
20. Gherasim, O; Grumezescu, V; Irimiciuc, SA, Overview of Antimicrobial Biodegradable Polyester-Based Formulations, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, Volume24Issue3, DOI10.3390/ijms24032945, Article Number 2945, Published FEB 2023
21. Sorin Constantinescu, Adelina-Gabriela Niculescu, Ariana Hudiță, Valentina Grumezescu, Dragoș Rădulescu, Alexandra Cătălina Bîrcă, Stefan Andrei Irimiciuc, Oana Gherasim, Alina Maria Holban, Bianca Gălățeanu, Ovidiu Cristian Oprea, Anton Ficai, Bogdan Ștefan Vasile, Alexandru Mihai Grumezescu, Alexandra Bolocan, Radu Rădulescu, SilverGraphene Oxide Nanostructured Coatings for Modulating the Microbial Susceptibility of Fixation Devices Used in Knee Surgery, International Journal of Molecular Science
22. Sinziana Anghel, Mihai Oane, Cristian N. Mihăilescu, Bogdan A. Sava, Mihail Elișa, Natalia Mihăilescu, Dorina Ticoș, Alexandra M.I. Trefilov, Carmen Ristoscu, Ana V. Filip, Ion N. Mihăilescu,

Thermal lattice field during ultra-short laser pulses irradiation of metal targets: A Fokker-Planck analytical model, *Metals*, 13 (10) 1775 (1-11) 2023.

23. Ion Sandu, Iulia Antohe, Claudiu Teodor Fleaca, Florian Dumitrache, Iuliana Urzica, Simona Brajnicov, Romulus Iagaru, Bogdan Alexandru Sava*, Marius Dumitru*, Shaping in the Third Direction: Self-Assembly of Convex Colloidal Photonic Crystals on an Optical Fiber Tip by Hanging Drop Method, *Polymers*, 16, 33 (1-15), publicat in 21.12. 2023
24. Oane, M; Mihailescu, C.N.; Trefilov, A.M.I. On the Thermal Behavior during Spatial Anisotropic Femtoseconds Laser-DNA Interaction: The Crucial Role of Hermite Polynomials, *Materials* 2023, 16(9), 3334. WOS:001094345900001