

Department of Oxide Compounds and Materials Science

Lucrări publicate în reviste clasificate ISI/ Scientific Papers in ISI ranked journals

2023

1. Ianchiș R., Marin M.M., Leu Alexa R., Gîfu I.C., Alexandrescu E., Grădișteanu Pîrcălăbioru G., Vlăsceanu G.M., Teodorescu G.M., Serafim A., Preda S., Nistor C.L., Petcu C. *Nanoclay-reinforced alginate/salecan composite inks for 3D printing applications*. International Journal of Bioprinting, 0967 (2023) (FI 8.4)
2. L. Gogianu, M.C. Popescu, B.S. Vasile, I. Mihalache, E.M. Anghel, A. Salceanu, A. Boldeiu, E. Constantin, A. Radoi, M. Simion, M.A. Popescu, *Microarray Biochip Fabricated on Silicon Nanowires/ Carbon Dots Heterostructures for Enhanced Viral DNA Detection*, Appl. Surf. Sci. 636 (2023) 157878 (IF 6.7)
3. R.E. Pătru, C. A. Stanciu, E. M. Soare, V. A. Surdu, R. D. Trușcă, A.I. Nicoară, B. Ș. Vasile, G. Boni, L. Amarande, N. Horchidan, L.P. Curecheriu, L. Mitoșeriu, L. Pintilie, I. Pintilie, A.C. Ianculescu. *Grain size-driven effect on the functional properties in Ba_{0.6}Sr_{0.4}TiO₃ ceramics consolidated by spark plasma sintering* Journal of the European Ceramic Society, 43 (8), (2023), 3250-3265 (FI 5.7)
4. M. Deaconu, A.-M. Prelipcean, A.-M. Brezoiu, R.-A. Mitran, G. Isopencu, C. Matei, D. Berger, *Novel Collagen-Polyphenols-Loaded Silica Composites for Topical Application*, Pharmaceutics, 15 (2023) 312. (FI 5.4)
5. M. Filip, E.M. Anghel*, V. Rednic, F. Papa, S. Somacescu, C. Munteanu, N. Aldea, J. Zhang, V. Parvulescu*, *Variation of Metal-Support Interaction with TiO₂ loading and synthesis conditions for Pt-Ti/SBA-15 active catalysts in methane combustion*, Nanomaterials 13, (2023) 1647 (IF 5.3)
6. M. Chelu, M. Popa*, E. A. Ozon, J. Pandelescu, M. Anastasescu, V. A. Surdu, J. Calderon Moreno, A. M. Musuc, *High-Content Aloe vera Based Hydrogels: Physicochemical and Pharmaceutical Properties* Polymers, 15, (2023), 1312. (FI 5)
7. C. L. Nistor, I. C. Gifu, E. M. Anghel, R. Ianchis, C. Diana, C. A. Nicolae, A. R. Gabor, I. Atkinson, C. Petcu*, *Novel PEG6000 – Silica - MWCNTs shape-stabilized composite phase change materials (ssCPCMs) for thermal energy storage*, Polymers 2023, 15(14), 3022 (IF 5.0)
8. C.M. Vladut, O.C. Mocioiu, E.M. Soare, *Coinage Metals Doped ZnO Obtained by Sol-Gel Method—A Brief Review*. Gels 2023, 9, 424 (FI 4.6)
9. A.-M. Brezoiu, M. Deaconu, R.-A. Mitran, A.-M. Prelipcean, C. Matei, D. Berger, *Optimisation of Polyphenols Extraction from Wild Bilberry Leaves—Antimicrobial Properties and Stability Studies*, Molecules 2023 28(15), 5795 (FI 4.6)
10. L. Todan, L. Predoana, G. Petcu, S. Preda, D. C. Culita, A. Baran, R. D. Trusca, V.A. Surdu, B. S. Vasile. A. C. Ianculescu, *Comparative Study of MgO Nanopowders Prepared by Different Chemical Methods*, Gels, 9, (2023) 624 (FI 4.6)
11. M. Chelu[†], A. M. Musuc*, M. Popa[†], J. M Calderon-Moreno*, *Aloe vera-Based Hydrogels for Wound Healing: Properties and Therapeutic Effects*, Gels, 9 (2023) 539, 2-30 (FI.4.6)
12. L. Predoană, G. Petcu, S. Preda, J. Pandelescu, S. V. Petrescu, A. Băran, N. G. Apostol, R. M. Costescu, V.A. Surdu, B. S. Vasile, A.C. Ianculescu. *Copper-/Zinc-Doped TiO₂ Nanopowders Synthesized by Microwave-Assisted Sol–Gel Method*. Gels, 9, (2023) 267. (FI 4.6)
13. M. Chelu[†], M. Popa[†], J. Calderon Moreno*, A. R. Leonties, E. A. Ozon, J. Pandelescu, V. A. Surdu, L. Aricov, A. M. Musuc*, *Green Synthesis of Hydrogel-Based Adsorbent Material for the Effective Removal of Diclofenac Sodium from Wastewater*, Gels 9(6) (2023) 454; (FI.4.6)
14. D.Pelinescu, M. Anastasescu, V.Brătan, V.A. Mărlăoiu, C. Negrilă, D. Mitrea, J.M. Calderon Moreno, S. Preda *, I.C. Gîfu, A. Stan., R. Ionescu, I.Stoica, C. Anastasescu, M. Zaharescu, I.

- Balint *Antibacterial Activity of PVA Hydrogels Embedding Oxide Nanostructures Sensitized by Noble Metals and Ruthenium Dye*. Gels, 9(8) (2023) 650 (FI 4.6)
15. L. Predoană, E. M. Ciobanu, G. Petcu, S. Preda, J. Pandele-Cusu, E. M. Anghel, S. Petrescu, D. C. Culită, A. Băran, V.A. Surdu, B. S. Vasile, A.C. Ianculescu, *Photocatalytic Performance of Sn-Doped TiO₂ Nanopowders for Photocatalytic Degradation of Methyl Orange Dye*, Catalysts 13, (2023), 534 (FI.3.9)
 16. L. Iancu, R. M. Grigorescu, R.M. Ion, M. E. David, L. Predoana, A.I. Gheboianu, E. Alexandrescu, *New Triple Metallic Carbonated Hydroxyapatite for Stone Surface Preservation Coatings* 13(8), (2023), 1469. (FI.3.4)
 17. M.Constantin, I. Răut, R. Suica-Bunghez, C. Firinca, N. Radu, A.M. Gurban, S. Preda, E. Alexandrescu, M. Doni, L. Jecu, *Ganoderma lucidum-Mediated Green Synthesis of Silver Nanoparticles with Antimicrobial Activity*, Materials, 16(12), 4261 (FI.3.4)
 18. N. Terenti , E. Melnic , V. Fruth , N. Nedelko, P. Aleshkevych, S. Lewińska, A. Ślawska-Waniewska, V. Ch. Kravtsov, A. Lazarescu, V. Lozan *Synthesis and microstructure of BaMnO₃ oxide obtained from coordination precursor*, Journal of Solid State Chemistry., 324, (2023) 124108 (FI 3.3)
 19. F. Cordero, F. Craciun, F. Trequattrini, S. Ionita, D. Lincu, R.-A. Mitran, V. Fruth, S. Brajnicov, A. Moldovan, M. Dinescu, *Phase Transition and Dynamics of Defects in the Molecular Piezoelectric TMCM-MnCl₃ and the Effect of Partial Substitutions of Mn*, Crystals, 13 (2023) 409. (FI 2.7)
 20. L. Todan, D. Culita, M. Soare, R. Ion, R. Fierascu, M. Maganu, *Immobilization of natural betalain pigments in inorganic hosts*, Journal of the Serbian Chemical Society (2023) (FI 1)