

Department of Oxide Compounds and Materials Science

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

2022

1. D. Lincu, S. Ioniță, O.C. Mocioiu, D. Berger, C. Matei, R.A. Mitran, *Aluminum doping of mesoporous silica as a promising strategy for increasing the energy storage of shape stabilized phase change materials containing molten NaNO₃: KNO₃ eutectic mixture*, Journal of Energy Storage, 49 (2022) 104188. (FI = 8.907)
2. D. Lincu, S. Ioniță, B. Trică, D.C. Culita, C. Matei, D. Berger, R.-A. Mitran, *Bismuth-mesoporous silica-based phase change materials for thermal energy storage*, Applied Materials Today, 29 (2022) 101663. (FI= 8.663)
3. M. Popa, L. M.Stefan, A.M. Prelipcean, S. I.Drob, M. Anastasescu, J. M.Calderon Moreno, *Inhibition of Mg corrosion in physiological fluids by carbonate coating*, Corrosion Science, 209 (2022), 110775, (FI=8.3)
4. L.C. Miclea, M. Mihailescu, N. Tarba, A.-M. Brezoiu, A.M. Sandu, R.-A. Mitran, D. Berger, C. Matei, M.G. Moisescu, T. Savopol, *Evaluation of intracellular distribution of folate functionalized silica nanoparticles using fluorescence and hyperspectral enhanced dark field microscopy*, Nanoscale, 14 (2022) 12744-12756. (FI=8.307)
5. M. Popa, M. Anastasescu, I. C. Gifu, J. M. Calderon Moreno, *Hydrophobic Carbonate Coatings on Pure Biodegradable Mg by Immersion in Carbonated Water: Formation Mechanism*, Applied Science, 12, (2022),11674, (FI=6.7)
6. E. Rusen, A. Diacon, R.-A. Mitran, A. Dinescu, C. Nistor, R. Șomoghi, A. Cristian Boscornea, D. Mănăilă-Maximean, *E7 nematic liquid crystal encapsulated in a polymeric photonic crystal*, European Polymer Journal, 175 (2022) 111374. (FI=5.546)
7. S. Ioniță, D. Lincu, R.-A. Mitran, L. Ziko, N.K. Sedky, M. Deaconu, A.-M. Brezoiu, C. Matei, D. Berger, *Resveratrol Encapsulation and Release from Pristine and Functionalized Mesoporous Silica Carriers*, Pharmaceutics, 14 (2022) 203 (FI= 5.8)
8. I. Atkinson, A. M. Seciu-Grama, S. Petrescu, D. Culita, O. C. Mocioiu, M. Voicescu, R. A. Mitran, D. Lincu, O. Craciunescu, *Cerium-Containing Mesoporous Bioactive Glasses (MBGs)-Derived Scaffolds with Drug Delivery Capability for Potential Tissue Engineering Applications*, Pharmaceutics, 2022, 14(6),1169 (FI= 5.8)
9. C. Haidan, R. Nastase Bucur, P. Bulzu, E. Levei, O. Cadar, I. C. Mirea, L. Faur, V. Fruth, I. Atkinson, S. Constantin, O. T. Moldovan, *A 16S rRNA Gene-Based Metabarcoding of Phosphate-Rich Deposits in Muierilor Cave, South-Western Carpathians*, Frontiers in Microbiology | 13,877481 (FI=5.2)
10. J. Pandele-Cusu, S. Petrescu, S. Preda, G. Petcu, M. Ciobanu, L. Predoană, *Comparative study of the TiO₂ nanopowders prepared from different precursors and chemical methods for heterogeneous photocatalysis application*, Journal of Thermal Analysis and Calorimetry 2022, doi:10.1007/s10973-022-11544-9 (FI=4.4)
11. I. Atkinson, *Antibiofilm activity of biocide metal ions containing bioactive glasses (BGs): a mini review*, Bioengineering, 9(10), (2022), 489 (FI=4.4)
12. O. C. Mocioiu, C. Vladut, I. Atkinson, V. Bratan, A.-M. Mocioiu, *The Influence of Gel Preparation and Thermal Treatment on the Optical Properties of SiO₂-ZnO Powders Obtained by Sol-Gel Method*, Gels, 8 (2022), 498 (FI = 4.432)
13. V. Musat, E. E. Herbei, E. M. Anghel, Michael P. M. Jank, S. Oertel, D. Timpu, L.

- Frangu, *Low-Temperature and UV Irradiation Effect on Transformation of Zirconia - MPS nBBs-Based Gels into Hybrid Transparent Dielectric Thin Films*, Gels 8, (2022) 68. (FI = 4.432)
14. S. Preda, J. Pandele-Cușu, S. Viorica Petrescu, E. M. Ciobanu, G. Petcu, D. C. Culiță, N. G. Apostol, R. M. Costescu, I. Raut, M. Constantin, L. Predoană, *Photocatalytic and Antibacterial Properties of Doped TiO₂ Nanopowders Synthesized by Sol–Gel Method*, Gels, 8(10), (2022) 673, (FI = 4.432)
 15. E.M. Anghel, S. Petrescu, O.C. Mocioiu, J.P. Cusu, I. Atkinson, *Influence of Ceria Addition on Crystallization Behavior and Properties of Mesoporous Bioactive Glasses in the SiO₂-CaO-P₂O₅-CeO₂ System*, Gels, 8(6), (2022), 344, (FI = 4.432)
 16. C. Vladut, O.C. Mocioiu, S. Preda, J Pandele Cusu, V. Bratan. R. Trusca, M. Zaharescu, *Effect of Thermal Treatment on the Structure and Morphology of Vanadium Doped ZnO Nanostructures Obtained by Microwave Assisted Sol–Gel Method*, Gels, 8(12), (2022) 811, (FI = 4.432)
 17. S. Preda, P. Umek, M. Zaharescu, C. Anastasescu, S. V. Petrescu, C. Gîfu, D.I. Eftemie, R. State, F. Papa, I. Balint, *Iron-Modified Titanate Nanorods for Oxidation of Aqueous Ammonia Using Combined Treatment with Ozone and Solar Light Irradiation*, Catalysts 2022, 12(6), 666 (FI=4.2)
 18. A.-M. Prelipcean, A. Iosageanu, A. Gaspar-Pintiliescu, L. Moldovan, O. Craciunescu, T. Negreanu-Pirjol, B. Negreanu-Pirjol, R.-A. Mitran, M. Marin, U. D’Amora, *Marine and Agro-Industrial By-Products Valorization Intended for Topical Formulations in Wound Healing Applications*, Materials, 15 (2022) 3507 (FI=3.748)
 19. V. Purcar, V. Raditoiu, F.M. Raduly, A. Raditoiu, M. Anastasescu, M. Popa, S. Caprarescu, R. Somoghi, M. Constantin, C. Firinca, G. C. Ispas, *Physicochemical and Morphological Properties of Hybrid Films Containing Silver-Based Silica Materials Deposited on Glass Substrates*, Coatings, 12(2) (2022) 242, (FI=3.4)
 20. A.-M.Mocioiu, DI Bail, C. I. Codrea, O. C. Mocioiu, *A Simple Method to Obtain Protective Film against Acid Rain*, Inorganics 10, (2022), 44 (FI = 3.149)
 21. B. Tincu, M. Avram, A. Avram, V. Tucureanu, G. Mihai, M. Popa, P. Osiceanu, I. Demetrescu, M. Enachescu, *Investigation of plasma-assisted functionalization of pristine single layer graphene*, Chemical Physics Letters 789, (2022), 139330 (FI=2.8)
 22. Ion, R.-M.; Rizescu, C.E.; Vasile, D.A.; Vasilievici, G.; Atkinson, I.; Rusu, A.; Predoana, L.; Miculescu, F. *Layered Double Hydroxides (LDHs) as New Consolidants for Cultural Heritage Masonry*, Crystals, 12 (2022) 490 (FI=2.7)
 23. L. Todan, M. Voicescu, D. Culita, R.M Ion, M. Calin, I. Raut, A. C. Kuncser, *A curcumin-loaded silica carrier with NH₃ sensitivity and antimicrobial properties*, Chemical Papers, 76(5), (2022) 3087-3096 (FI=2.2)

