

- ISI PAPERS

- Journal Publications

1. Vasile V. Bințișan, Adrian Calborean, Mihaela Mocan, Sergiu Macavei, Adrian Cordoș, Catalin Ciuce, Adriana Bințișan, Romeo Chira, Georgiana Nagy, Valeriu Surlin, Dan Timofte, Felix Nickel, George Dindelegan, Constantin Ciuce, Stelian Brad, Mircea Murar, Bogdan Mocan: *New inductive proximity sensor platform for precise localization of small colorectal tumors*. DOI:10.1016/j.msec.2019.110146
2. Dana Toloman, Ovidiu Pana, Maria Stefan, Adriana Popa, Cristian Leostean, Sergiu Macavei, Dan Silipas, Ioana Perhaita, Mihaela Diana Lazar, Lucian Barbu-Tudoran: *Photocatalytic activity of SnO₂-TiO₂ composite nanoparticles modified with PVP*. Journal of Colloid and Interface Science 02/2019; 542., DOI:10.1016/j.jcis.2019.02.026
3. S. Rada, M. Zagrai, M. Rada, L. Magerusan, A. Popa, R. Suci, S. Macavei, M. Suci: *Structure, electrochemical characterization and the role of copper oxide in lead-lead dioxide glasses and vitroceraamics*. Journal of Non-Crystalline Solids 07/2018; 491:55-63., DOI:10.1016/j.jnoncrysol.2018.04.001
4. Maria Stefan, Adriana Popa, Ovidiu Pana, Cristian Leostean, Dana Toloman, Diana Lazar, Florina Pogacean, Sergiu Macavei, Simona Gutoiu: *Efficient photocatalytic removal of RhB using magnetic Fe₃O₄-SnO₂ nanocomposites containing Sn²⁺ interstitial impurities*. Journal of Materials Science Materials in Electronics 06/2018; 29(10)., DOI:10.1007/s10854-018-9546-6
5. Sergiu Macavei, Marius Rada, Mioara Zagrai, Simona Rada, Victor Bodnarchuk, Radu Balan, Raul Erhan: *Spectroscopic Characterization of a Lead-Lead Dioxide Automobile Battery*. Analytical Letters 05/2018; 51(17):1-11., DOI:10.1080/00032719.2018.1447577
6. Dana Toloman, Adriana Popa, Maria Stefan, Ovidiu Pana, Teofil Danut Silipas, Sergiu Macavei, Lucian Barbu-Tudoran: *Impact of Gd ions from the lattice of TiO₂ nanoparticles on the formation of reactive oxygen species during the degradation of RhB under visible light irradiation*. Materials Science in Semiconductor Processing 11/2017; 71:61-68., DOI:10.1016/j.mssp.2017.07.004
7. Adriana Popa, Maria Stefan, Dana Toloman, Ovidiu Pana, Amalia Mesaros, Cristian Leostean, Sergiu Macavei, Olivian Marincas, Ramona Suci, Lucian Barbu-Tudoran: *Fe₃O₄-TiO₂: Gd nanoparticles with enhanced photocatalytic activity and magnetic recyclability*. Powder Technology 11/2017; 325., DOI:10.1016/j.powtec.2017.11.049
8. C. Leostean, O. Pana, M. Stefan, A. Popa, D. Toloman, M. Senila, S. Gutoiu, S. Macavei: *New properties of Fe₃O₄@SnO₂ core shell nanoparticles following interface charge/spin transfer*. Applied Surface Science 08/2017; 427., DOI:10.1016/j.apsusc.2017.07.267
9. C. Vasile, M. Rapa, M. Stefan, M. Stan, S. Macavei, R. N. Darie-Nita, L. Barbu-Tudoran, D. C. Vodnar, E. E. Popa, R. Stefan, G. Borodi, M. Brebu: *New PLA/ZnO:Cu/Ag bionanocomposites for food packaging*. eXPRESS Polymer Letters 07/2017; 11(7):531-544., DOI:10.3144/expresspolymlett.2017.51
10. Sergiu Gabriel Macavei, Maria Suci, Izabell Crăciunescu, Lucian Barbu-Tudoran, Septimiu Cassian Tripon, Cristian Leostean, Radu Bălan: *SPION size dependent effects on normal and cancer cells*. DOI:10.24193/subbb.2017.1.02

11. S. Mitrici, S. Rada, E. Culea, L. Pop, A. Popa, A. Bot, S. Macavei, O. Pana, L. David: *Nickel-lead-borate glasses and vitroc ceramics with antiferromagnetic NiO and nickel-orthoborate crystalline phases*. Journal of Non-Crystalline Solids 06/2017; 471., DOI:10.1016/j.jnoncrysol.2017.06.019
12. Belén Fernández, Itziar Oyarzabal, Eva Fischer-Fodor, Sergiu Macavei, Ignacio Sanchez, José M Seco, Santiago Gómez-Ruiz, Antonio Rodriguez-Dieguez: *Multifunctional Applications of a Dysprosium-Based Metal-Organic Chain with Single-Ion Magnet Behaviour*. CrystEngComm 10/2016; 18(45)., DOI:10.1039/C6CE01810F
13. M. Rada, N. Aldea, Z.H. Wu, Z. Jing, S. Rada, E. Culea, S. Macavei, R. Balan, R.C. Suci, R.V. Erhan, V. Bodnarchuk: *Evolution of the germanium–oxygen coordination number in lithium–lead–germanate glasses*. Journal of Non-Crystalline Solids 04/2016; 437:10–16., DOI:10.1016/j.jnoncrysol.2016.01.015
14. O. Pana, C. Leostean, M.L. Soran, M. Stefan, S. Macavei, S. Gutoiu, V. Pop, O. Chauvet: *Synthesis and characterization of Fe–Pt based multishell magnetic nanoparticles*. Journal of Alloys and Compounds 10/2013; 574:477–485., DOI:10.1016/j.jallcom.2013.05.153
15. Ioanna Savva, Maria Demetriou, Andreas Othonos, Rodica Turcu, Adriana Popa, Sergiu Macavei, Theodora Krasia-Christoforou: *Well-defined fluoro- and carbazole-containing diblock copolymers: Synthesis, characterization and immobilization onto Au-coated silicon surfaces*. RSC Advances 09/2012; 2(23):8741–8751., DOI:10.1039/C2RA20650A
16. O. Pana, M. L. Soran, C. Leostean, S. Macavei, E. Gautron, C. M. Teodorescu, N. Gheorghe, O. Chauvet: *Interface charge transfer in polypyrrole coated perovskite manganite magnetic nanoparticles*. Journal of Applied Physics 02/2012; 111(4)., DOI:10.1063/1.3686662
17. O. Pana, C. Leostean, M. L. Soran, M. Stefan, S. Macavei, N. G. Gheorghe, C. M. Teodorescu: *Magnetization Enhancement Of Magnetic Nanoparticles Coated With Polypyrrole*. 02/2012; 1425(1):135–138., DOI:10.1063/1.3681985
18. C. Leostean, O. Pana, R. Turcu, M. L. Soran, S. Macavei, O. Chauvet, C. Payen: *Comparative study of core–shell iron/iron oxide gold covered magnetic nanoparticles obtained in different conditions*. Journal of Nanoparticle Research 11/2011; 13(11)., DOI:10.1007/s11051-011-0313-3
19. N. Aldea, V. Rednic, S. Pinte, P. Marginean, L. Rednic, V. Pop, E. Dorolti, S. Macavei, F. Matei: *Dimensionality analysis of supported Ni nanoclusters through XRD and magnetic measurements*. Digest Journal of Nanomaterials and Biostructures 01/2011; 6(4):1991–2000.
20. Rodica Turcu, Alexandrina Nan, Izabell Craciunescu, Cristian Leostean, Sergiu Macavei, Alina Taculescu, Oana Marinica, Camelia Daia, Ladislau Vekas: *Synthesis and Characterization of Magnetically Controllable Nanostructures Using Different Polymers*. 12/2010; 1311(1)., DOI:10.1063/1.3530014
21. R Turcu, A Nan, I Craciunescu, O Pana, C Leostean, S Macavei: *Smart composites based on magnetic nanoparticles and responsive polymers*. Journal of Physics Conference Series 09/2009; 182(1):012081., DOI:10.1088/1742-6596/182/1/012081
22. O. Pana, R. Turcu, M. L. Soran, S. Macavei, C. Leostean: *Synthesis and characterization of LSMO nanoparticles covered with Au having a core-shell structure*. Journal of Physics Conference Series 08/2009; 182(1)., DOI:10.1088/1742-6596/182/1/012071