

# Lucian Barbu-Tudoran, PhD

[https://www.researchgate.net/profile/Lucian\\_Barbu-Tudoran](https://www.researchgate.net/profile/Lucian_Barbu-Tudoran)

## Book Chapters

CRISTIAN COMAN, BOGDAN DRUGĂ, ADRIANA BICA, LUCIAN BARBU-TUDORAN, NICOLAE DRAGOȘ: *A Microbial Mat Developed Around a Man-Made Geothermal Spring from Romania: Structure and Cyanobacterial Composition*. *Microbial Mats in Siliclastic Depositional Systems Through Time*, 01/2012: pages 47-53; , ISBN: 978-1-56576-283-1, DOI:10.2110/sepmsp.101.047

## Journal Publications

I. Perhaita, L. E. Muresan, D. T. Silipas, L. Barbu Tudoran: *Comparative study on blue-turquoise silicate apatite phosphors prepared via different synthesis routes*. *Journal of Sol-Gel Science and Technology* 01/2019;, DOI:10.1007/s10971-018-4911-8

Thomas Dippong, Erika Andrea LEVEL, Oana Cadar, Iosif Grigore DEAC, Lucian Diamandescu, Lucian Barbu-Tudoran: *Effect of nickel content on structural, morphological and magnetic properties of Ni Co1-Fe2O4/SiO2 nanocomposites*. *Journal of Alloys and Compounds* 01/2019;, DOI:10.1016/j.jallcom.2019.01.363

Thomas Dippong, Oana Cadar, Erika Andrea Levei, Iosif Grigore Deac, Firuta Goga, Gheorghe Borodi, Lucian Barbu-Tudoran: *Influence of polyol structure and molecular weight on the shape and properties of Ni0.5Co0.5Fe2O4 nanoparticles obtained by sol-gel synthesis*. *Ceramics International* 01/2019;, DOI:10.1016/j.ceramint.2019.01.037

Rahela Carpa, Alin Căndea, Alexei Remizovschi, Lucian Barbu-Tudoran, Maria Cornelia Maior: *Cellulase production and morphology of Trichoderma reesei in different experimental conditions*. DOI:10.24193/subbbiol.2018.2.09

Ágnes Gál, Corina Ionescu, Mátyás Bajusz, Vlad A. Codrea, Volker Hoeck, Lucian Barbu-Tudoran, Viorica Simon, Marieta Mureșan-Pop, Zsolt Csók: *Composition, technology and provenance of Roman pottery from Napoca (Cluj-Napoca, Romania)*. *Clay Minerals* 11/2018;, DOI:10.1180/clm.2018.47

S. Rada, M. Rada, R.V. Erhan, V. Bodnarchuk, L. Barbu-Tudoran, E. Culea: *Heterogeneities in the silver oxide-lead-germanate glasses*. *Journal of Alloys and Compounds* 08/2018; 770., DOI:10.1016/j.jallcom.2018.08.128

Thomas Dippong, Oana Cadar, Erika Andrea Levei, Iosif Grigore Deac, Lucian Diamandescu, Lucian Barbu-Tudoran: *Influence of cobalt ferrite content on the structure and magnetic properties of (CoFe<sub>2</sub>O<sub>4</sub>)<sub>X</sub>(SiO<sub>2</sub>-PVA)<sub>100-X</sub> nanocomposites*. *Ceramics International* 05/2018; 44(7), DOI:10.1016/j.ceramint.2018.01.226

- Cristina Lelescu, Aurel Muste, Marian Taulescu, Gheorghe Borodi, Marin Senila, Lucian Barbu Tudoran, Razvan Stefan: *Copper-releasing, borate-based glasses with antibacterial properties: synthesis and in vitro characterization*.
- Ioana Hodisan, Cristina Prejmerean, Ioan Petean, Doina Prodan, Tinca Buruiana, Loredana Colceriu, Lucian Barbu-Tudoran, Maria Tomoaia-Cotișel: *Synthesis and characterization of novel giomers for dental applications*. *Studia Universitatis Babes-Bolyai Chemia* 12/2017; 62(4):143-154., DOI:10.24193/subbchem.2017.4.12
- Dana Toloman, Adriana Popa, Maria Stefan, Ovidiu Pana, Teofil Danut Silipas, Sergiu Macavei, Lucian Barbu-Tudoran: *Impact of Gd ions from the lattice of TiO<sub>2</sub> 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
- MARIA SUCIU, FELIX AUREL MIC, LUCIAN BARBU-TUDORAN, VASILE MUNTEAN, ALEXANDRA TEODORA GRUIA: *Effects of Lycopodium clavatum and Equisetum arvense extracts from Western Romania*. *Romanian Biotechnological Letters* 11/2017; 22(5), DOI:10.26327/RBL2017.46
- Adriana Popa, Maria Stefan, Dana Toloman, Ovidiu Pana, Amalia Mesaros, Cristian Leostean, Sergiu Macavei, Olivian Marincas, Ramona Suci, Lucian Barbu-Tudoran: *Fe<sub>3</sub>O<sub>4</sub>-TiO<sub>2</sub>: Gd nanoparticles with enhanced photocatalytic activity and magnetic recyclability*. *Powder Technology* 11/2017; 325., DOI:10.1016/j.powtec.2017.11.049
- A.-I. Cadiș, I. Perhaița, V. Munteanu, L. Barbu-Tudoran, D. T. Silipas, L. E. Mureșan: *Influence of preparative conditions for obtaining ZnS:Mn nanoparticles using ultrasound-assisted precipitation*. *Colloid and Polymer Science* 10/2017; 295(12), DOI:10.1007/s00396-017-4212-8
- Thomas Dippong, Erika Andrea Levei, Oana Cadar, Firuta Goga, Lucian Barbu Tudoran, Gheorghe Borodi: *Size and shape-controlled synthesis and characterization of CoFe<sub>2</sub>O<sub>4</sub> nanoparticles embedded in a PVA-SiO<sub>2</sub> hybrid matrix*. *Journal of Analytical and Applied Pyrolysis* 10/2017; 128., DOI:10.1016/j.jaap.2017.10.018
- Sonia Iurian, Elena Dinte, Cristina Iuga, Cătălina Bogdan, Iuliana Spiridon, Lucian Barbu-Tudoran, Andreea Bodoki, Ioan Tomuță, Sorin E. Leucuța: *The pharmaceutical applications of a biopolymer isolated from Trigonella foenum-graecum seeds: Focus on the freeze-dried matrix forming capacity*. *Saudi Pharmaceutical Journal* 09/2017; 25(8), DOI:10.1016/j.jsps.2017.09.006
- Adrian-Ștefan Andrei, Andreea Baricz, Michael Scott Robeson II, Manuela Raluca Păușan, Tudor Tămaș, Cecilia Chiriac, Edina Szekeres, Lucian Barbu-Tudoran, Erika Andrea Levei, Cristian Coman, Mircea Podar, Horia Leonard Banciu: *Hypersaline sapropels act as hotspots for microbial dark matter*. *Scientific Reports* 07/2017; 7(1), DOI:10.1038/s41598-017-06232-w
- 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

- Sergiu Gabriel Macavei, Maria Suciu, Izabell Crăciunescu, Lucian Barbu-Tudoran, Septimiu Cassian Tripon, Cristian Leoștean, Radu Bălan: *SPION size dependent effects on normal and cancer cells*. DOI:10.24193/subbb.2017.1.02
- Calin Cadar, Cosmin Cotet, Lucian Baia, Lucian Barbu-Tudoran, Ioan Ardelean: *Probing into the mesoporous structure of carbon xerogels via the low-field NMR relaxometry of water and cyclohexane molecules*. *Microporous and Mesoporous Materials* 05/2017; 251., DOI:10.1016/j.micromeso.2017.05.033
- Thomas Dippong, Oana Cadar, Erika Andrea Levei, Cristian Leostean, Lucian Barbu Tudoran: *Effect of annealing on the structure and magnetic properties of CoFe<sub>2</sub>O<sub>4</sub>:SiO<sub>2</sub> nanocomposites*. *Ceramics International* 04/2017;, DOI:10.1016/j.ceramint.2017.04.063
- Mihaela Tertîș, Anca Florea, Alina Adumitrăchioaie, Andreea Cernat, Diana Bogdan, Lucian Barbu-Tudoran, Nicole Jaffrezic Renault, Robert Săndulescu, Cecilia Cristea: *Frontispiece: Detection of Dopamine by a Biomimetic Electrochemical Sensor Based on Polythioaniline-Bridged Gold Nanoparticles*. *ChemPlusChem* 04/2017; 82(4)., DOI:10.1002/cplu.201780462
- Stefan Andrei, Manuela R. Păușan, Tudor Tămaș, Nicolae Har, Lucian Barbu-Tudoran, Nicolae Leopold, Horia L. Banciu: *Diversity and Biomineralization Potential of the Epilithic Bacterial Communities Inhabiting the Oldest Public Stone Monument of Cluj-Napoca (Transylvania, Romania)*. *Frontiers in Microbiology* 03/2017; 08(e1029)., DOI:10.3389/fmicb.2017.00372
- Dana Hales, Laurian Vlase, Sebastian Alin Porav, Andreea Bodoki, Lucian Barbu-Tudoran, Marcela Achim, Ioan Tomuța: *A quality by design (QbD) study on enoxaparin sodium loaded polymeric microspheres for colon-specific delivery*. *European journal of pharmaceutical sciences: official journal of the European Federation for Pharmaceutical Sciences* 01/2017; 100., DOI:10.1016/j.ejps.2017.01.006
- Marcela Stoia a, Paul Barvinschi b, Lucian Barbu-Tudoran c, Mădălin Bunoiu b: *Influence of polyols on the formation of nanocrystalline nickel ferrite inside silica matrices*. *Journal of Crystal Growth* 01/2017; 457., DOI:10.1016/j.jcrysgro.2016.05.034
- A.I. Cadiș, L.E. Muresan, I. Perhaița, E.-J. Popovici, L. Barbu-Tudoran, Emil Indrea: *Studies regarding ZnS:Mn nanopowders prepared from single source molecular precursor using microwave-assisted decomposition*. *Materials Research Bulletin* 12/2016; 84:57 - 64., DOI:10.1016/j.materresbull.2016.07.023
- R. Hirian, S. Mican, O. Isnard, L. Barbu-Tudoran, V. Pop: *Influence of microstructure on the interphase exchange coupling of Nd<sub>2</sub>Fe<sub>14</sub>B + 10wt% $\alpha$ -Fe nanocomposites obtained at different milling energies*. *Journal of Alloys and Compounds* 12/2016; 697., DOI:10.1016/j.jallcom.2016.12.123
- Adriana Hegedűs, Aurel Mocan, Lucian Barbu-Tudoran, Cristian Coman, Nicolae Dragoș: *Molecular phylogeny of Botryococcus braunii strains (race A) – An integrative approach*. *Algal Research* 11/2016; 19., DOI:10.1016/j.algal.2016.08.012
- Thomas Dippong, Erika Andrea Levei, Oana Cadar, Firuta Goga, Gheorghe Borodi, Lucian Barbu-Tudoran: *Thermal behavior of Co<sub>x</sub>Fe<sub>3-x</sub>O<sub>4</sub>/SiO<sub>2</sub> nanocomposites obtained by a modified sol-gel method*. *Journal of Thermal Analysis and Calorimetry* 11/2016; 128(1):1-14., DOI:10.1007/s10973-016-5930-8

- Mihaela Tertis, Anca Florea, Alina Adumitrachioaie, Andreea Cernat, Diana Bogdan, Lucian Barbu-Tudoran, Nicole Jaffrezic-Renault, Cecilia Cristea, Robert Sandulescu: *Detection of Dopamine by a Biomimetic Electrochemical Sensor Based on Polythioaniline-Bridged Gold Nanoparticles*. ChemPlusChem 11/2016;, DOI:10.1002/cplu.201600539
- Thomas Dippong, Oana Cadar, Erika Andrea Levei, Ion Bibicu, Lucian Diamandescu, Cristian Leostean, Mihaela Lazar, Gheorghe Borodi, Lucian Barbu Tudoran: *Structure and magnetic properties of CoFe<sub>2</sub>O<sub>4</sub>/SiO<sub>2</sub> nanocomposites obtained by sol-gel and post annealing pathways*. Ceramics International 11/2016; 43(2)., DOI:10.1016/j.ceramint.2016.10.192
- Bogdan-Cezar Iacob, Ede Bodoki, Cosmin Farcău, Lucian Barbu-Tudoran, Radu Oprean: *Study of the Molecular Recognition Mechanism of an Ultrathin MIP Film-Based Chiral Electrochemical Sensor*. Electrochimica Acta 09/2016; 217., DOI:10.1016/j.electacta.2016.09.079
- Călin Mircea, Georgiana Deak, Ioana Adriana Matei, Angela Monica Ionică, Gianluca D 'amico, Marian Taulescu, Lucian Barbu-Tudoran, Alexandru Sarmași, Andrei Daniel Mihalca, Vasile Cozma: *A rare cardiopulmonary parasite of the European badger, Meles meles: First description of the larvae, ultrastructure, pathological changes and molecular identification of Angiostrongylus daskalovi Janchev & Genov 1988*. Parasites & Vectors 08/2016; 9(423)., DOI:10.1186/s13071-016-1718-8
- M. Stefan, C. Leostean, O. Pana, D. Toloman, A. Popa, I. Perhaita, M. Senilă, O. Marincas, L. Barbu-Tudoran: *Magnetic recoverable Fe<sub>3</sub>O<sub>4</sub>-TiO<sub>2</sub>:Eu composite nanoparticles with enhanced photocatalytic activity*. Applied Surface Science 08/2016; 390., DOI:10.1016/j.apsusc.2016.08.084
- Sonia Iurian, Ioan Tomuta, Cătălina Bogdan, Lucia Rus, Timea Tokes, Lucian Barbu-Tudoran, Marcela Achim, Mirela Moldovan, Sorin Leucuta: *Defining the Design Space for Freeze-Dried Orodispersible Tablets with Meloxicam*. Drug Development and Industrial Pharmacy 05/2016; 42(12):1-39., DOI:10.1080/03639045.2016.1188108
- A. Canimoglu, Y. Karabulut, M. Ayvacikli, L.E. Muresan, I. Perhaita, L. Barbu-Tudoran, J. Garcia Guinea, T. Karali, N. Can: *Optical Spectroscopy of the Ce-doped Multicomponent Garnets*. Applied Radiation and Isotopes 05/2016; 114., DOI:10.1016/j.apradiso.2016.05.021
- Seyed Mohammad Reza Azghadi, Maria Suci, Alexandra Teodora Gruia, Lucian Barbu-Tudoran, Mirabela Iustina Cristea, Ani Aurora Mic, Danina Muntean, Dragos Vasile Nica, Felix Aurel Mic: *Mesenchymal stromal cells support the viability and differentiation of thymocytes through direct contact in autologous co-cultures*. Histochemie 04/2016; 146(2)., DOI:10.1007/s00418-016-1430-y
- Gabriela Blanita, Gheorghe Borodi, Mihaela D. Lazar, Alexandru-Radu Biris, Lucian Barbu-Tudoran, Ioan Coldea, Dan Lupu: *Microwave assisted non-solvothormal synthesis of metal-organic frameworks*. RSC Advances 03/2016; 6(31):25967-25974., DOI:10.1039/C5RA26097C
- Thomas Dippong, Erika Andrea Levei, Claudiu Tanaselia, Mihai Gabor, Mircea Nasui, Lucian Barbu Tudoran, Gheorghe Borodi: *Magnetic properties evolution of the Co<sub>x</sub>Fe<sub>3-x</sub>O<sub>4</sub>/SiO<sub>2</sub> system due to advanced thermal treatment at 700°C and 1000°C*. Journal of Magnetism and Magnetic Materials 03/2016; 410., DOI:10.1016/j.jmmm.2016.03.020

- L.E. Muresan, Y. Karabulut, A.I. Cadis, I. Perhaita, A. Canimoglu, J. Garcia Guinea, L. Barbu Tudoran, D. Silipas, M. Ayvacikli, N. Can: *Tunable luminescence of broadband-excited and narrow line green emitting Y<sub>2</sub>SiO<sub>5</sub>:Ce<sup>3+</sup>, Tb<sup>3+</sup> phosphor*. Journal of Alloys and Compounds 02/2016; 658:356-366., DOI:10.1016/j.jallcom.2015.10.202
- M. Ayvacikli, A. Canimoglu, L.E. Muresan, Lucian Barbu-Tudoran, J. Garcia Guinea, Y. Karabulut, A. Jorge, T. Karali, N. Can: *Structural and luminescence effects of Ga co-doping on Ce-doped yttrium aluminate based phosphors*. Journal of Alloys and Compounds 01/2016; 666., DOI:10.1016/j.jallcom.2016.01.113
- M. Horge, L. Barbu-Tudoran, D. Gulei, A. Moldovan, C. Crăciun, C. Lang, C. Munteanu, A. Jompan, C. Roșioru: *Can physical exercise prevent the onset of osteoporosis? Lessons learned from an animal model*. Thomas Dippong, Erika Andrea Levei, Lucian Diamandescu, Ion Bibicu, Cristian Leostean, Gheorghe Borodi, Lucian Barbu Tudoran: *Structural and magnetic properties of Co<sub>x</sub>Fe<sub>3-x</sub>O<sub>4</sub> versus Co/Fe molar ratio*. Journal of Magnetism and Magnetic Materials 11/2015; 394., DOI:10.1016/j.jmmm.2015.06.055
- T. Petreus, A.M. Holicov, L.B. Tudoran, G.Gh. Balan, D.E. Mitrica: *Synthesis and biocompatibility evaluation for a phosphorylated Polyvinyl alcohol derivative*.
- Alexandra T. Gruia, Maria Suciu, Lucian Barbu-Tudoran, Seyed Mohammad Reza Azghadi, Mirabela I. Cristea, Dragos V. Nica, Adrian Vaduva, Danina Muntean, Ani Aurora Mic, Felix A. Mic: *Mesenchymal Stromal Cells Differentiating to Adipocytes Accumulate Autophagic Vesicles Instead of Functional Lipid Droplets*. Journal of Cellular Physiology 09/2015;, DOI:10.1002/jcp.25177
- L.E. Muresan, A.I. Cadis, I. Perhaita, D.T. Silipas, L. Barbu Tudoran: *Effect of ultrasound treatment on the morpho-structural and luminescent characteristics of cerium doped yttrium silicate phosphors*. Materials Research Bulletin 08/2015; 68:295 - 301., DOI:10.1016/j.materresbull.2015.03.063
- J.D. Chelaru, L. Barbu-Tudoran, L.M. Muresan: *The effectiveness of wax in protection of bronzes covered with artificial patina in outdoor exposure*. Studia Universitatis Babeș-Bolyai Chemia 08/2015; 60(3):151-162.
- Zorita Diaconeasa, Lucian Barbu-Tudoran, Cristina Coman, Loredana Leopold, Amalia Mesaros, Oana Pop, D. Rugină, R. Ștefan, F. Tăbăran, Septimiu Tripon, Carmen Socaciu: *Cerium Oxide Nanoparticles and Its Cytotoxicity Human Lung Cancer Cells*. Romanian Biotechnological Letters 07/2015; 20(4):10679-10687.
- Raluca Zaganescu, Lucian Barbu Tudoran, Eموke Pall, Adrian Florea, Alexandra Roman, Andrada Soanca, Carmen Mihaela MiHu: *Ultrastructural evaluation of mesenchymal stem cells from inflamed periodontium in different in vitro conditions*. Microscopy Research and Technique 07/2015; 78(9):792-800., DOI:10.1002/jemt.22542
- Alexandra Roman, Emóke Páll, Carmen M MiHu, Adrian S Petruțiu, Lucian Barbu-Tudoran, Radu S Cămpian, Adrian Florea, Carmen Georgiu: *Tracing CD34+ Stromal Fibroblasts in Palatal Mucosa and Periodontal Granulation Tissue as a Possible Cell Reservoir for Periodontal Regeneration*. Microscopy and Microanalysis 06/2015; 21(4):837-848., DOI:10.1017/S1431927615000598

- Zorița Diaconeasa, Lucian Barbu Tudoran, Cristina Coman, Loredana Leopold, Amalia Mesaros, Oana Pop, Dumitrița Rugină, Carmen Socaciu: *Evaluation of Antiproliferative Potential of Cerium Oxide Nanoparticles on HeLa Human Cervical Tumor Cell*. 05/2015; 72(1)., DOI:10.15835/buasvmcn-fst:11138
- M. Suciu, C. Craciun, L. Barbu-Tudoran: *High resolution detail of differences between the exocrine pancreas porosome and the neuronal porosome*. Journal of Biological Physics and Chemistry 03/2015; 15(1):15-18., DOI:10.4024/27SU14M.jbpc.15.01
- Cristian Coman, Cecilia Maria Chiriac, Michael Scott Robeson, Corina Ionescu, Nicolae Dragos, Lucian Barbu-Tudoran, Adrian-Stefan Andrei, Horia L. Banciu, Cosmin Sicora, Mircea Podar: *Structure, mineralogy and microbial diversity of geothermal spring microbialites associated with a deep oil drilling in Romania*. Frontiers in Microbiology 03/2015; 6:253., DOI:10.3389/fmicb.2015.00253
- Alexandra T. Gruia, Maria Suciu, Lucian Barbu-Tudoran, Seyed Mohammad Reza Azghadi, Mirabela I. Cristea, Dragos V. Nica, Adrian Vaduva, Danina Muntean, Ani Aurora Mic, Felix A. Mic: *Mesenchymal Stromal Cells Differentiating to Adipocytes Accumulate Autophagic Vesicles Instead of Functional Lipid Droplets*. Journal of Cellular Physiology 01/2015;
- Daniela Esian, Lucian Barbu Tudoran, Cristina Bica: *Etching Adhesives versus Classical Adhesives Concerning the Phenomenon of Dentin Hybridization*. Revista de Chimie -Bucharest- Original Edition- 11/2014; 65(11):1369-1372.
- Anca Peter, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, Camelia Nicula, Emil Indrea, Lucian Barbu-Tudoran: *Testing the Preservation Activity of Ag-TiO<sub>2</sub>-Fe and TiO<sub>2</sub> Composites Included in the Polyethylene during Orange Juice Storage*. Journal of Food Process Engineering 08/2014; 37(6):596-608., DOI:10.1111/jfpe.12116
- Adriana Hegedus, Aurel Mocan, Lucian Barbu-Tudoran, Cristian Coman, Bogdan Drugă, Nicolae Dragos: *Erratum to: Morphological, biochemical, and phylogenetic assessments of eight Botryococcus terrestris strains collected from freshwaters of Transylvania*. Journal of Applied Phycology 07/2014; 27(2)., DOI:10.1007/s10811-014-0387-2
- Tudor Petreus, Carmen Elena Cotrutz, Paul Dan Sirbu, Lucian Barbu Tudoran, Doinita Olinici, Laurentiu Badescu, Oana Petreus, Bogdan Alexandru Stoica: *Biocompatible Porous Scaffolds from Derivatized PVA Composites*. Key Engineering Materials 06/2014; 614:17-21., DOI:10.4028/www.scientific.net/KEM.614.17
- Morar Marius, Elisabeth Jeanne Popovici, Lucian Barbu-Tudoran, Emil Indrea, Amalia Mesaros: *Cerium-doped yttrium aluminate-based phosphors prepared by wet-chemical synthesis route: Modulation of the luminescence color by changing the host-lattice composition*. Ceramics International 05/2014; 40(4):6233-6239., DOI:10.1016/j.ceramint.2013.11.079
- Anca Peter, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, Camelia Nicula, Lucian Barbu Tudoran, Adriana Vulpoi, Lucian Baia: *Photocatalytic Efficiency of Zeolite-Based TiO<sub>2</sub> Composites for Reduction of Cu (II): Kinetic Models*. International Journal of Applied Ceramic Technology 05/2014; 11(3)., DOI:10.1111/ijac.12046

- Anca Peter, L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, C. Nicula, L. B. Tudoran, L. Baia: *Efficiency of Cu/TiO<sub>2</sub> to remove salicylic acid by photocatalytic decomposition: kinetic modelling*. *Materials Technology* 05/2014; *Materials Technology*(3), DOI:10.1179/1753555713Y.0000000121
- Eva Fischer-Fodor, Ana-Maria Vălean, Pirooska Virag, Petru Ilea, Corina Tatomir, Florica Imre-Lucaci, Maria Perde Schrepler, Ludovic Tibor Krausz, Lucian Barbu Tudoran, Calin George Precup, Iulia Lupan, Evamarie Hey-Hawkins, Luminita Silaghi-Dumitrescu: *Gallium phosphinoarylbisthiolato complexes counteract drug resistance of cancer cells*. *Metallomics* 03/2014; 6(4):833-844., DOI:10.1039/c3mt00278k
- Boldizsar Nagy, Carmen Mânzatu, Andrada Măicăneanu, Cerasella Indolean, Barbu-Tudoran Lucian, Cornelia Majdik: *Linear and nonlinear regression analysis for heavy metals removal using Agaricus bisporus macrofungus*. *Arabian Journal of Chemistry* 03/2014; 148(S2), DOI:10.1016/j.arabjc.2014.03.004
- Shixin Yang, Lucian Barbu-Tudoran, Marek Orzechowski, Roger Craig, John Trinick, Howard White, William Lehman: *Three-Dimensional Organization of Troponin on Cardiac Muscle Thin Filaments in the Relaxed State*. *Biophysical Journal* 02/2014; 106(4):855–864., DOI:10.1016/j.bpj.2014.01.007
- Thomas Dippong, Erika Andrea Levei, Gheorghe Borodi, Firuta Goga, Lucian Barbu Tudoran: *Influence of Co/Fe ratio on the oxide phases in nanoparticles of CoFe<sub>3-x</sub>O<sub>4</sub>*. *Journal of Thermal Analysis and Calorimetry* 02/2014; 119(2):1001-1009., DOI:10.1007/s10973-014-4280-7
- Tudor Petreus, Bogdan Alexandru Stoica, Oana Petreus, Ancuta Goriuc, Carmen-Elena Cotrutz, Iulian-Vasile Antoniac, Lucian Barbu-Tudoran: *Preparation and cytocompatibility evaluation for hydrosoluble phosphorous acid-derivatized cellulose as tissue engineering scaffold material*. *Journal of Materials Science Materials in Medicine* 01/2014; 25(4), DOI:10.1007/s10856-014-5146-z
- Bogdan Marta, Endre Jakab, Monica Potara, Timea Simon, Florica Imre-Lucaci, Lucian Barbu-Tudoran, Octavian Popescu, Simion Astilean: *Pluronic-coated silver nanoprisms: Synthesis, characterization and their antibacterial activity*. *Colloids and Surfaces A Physicochemical and Engineering Aspects* 01/2014; 441:77-83., DOI:10.1016/j.colsurfa.2013.08.076
- İbrahim Mutlay, Lucian Barbu Tudoran: *Percolation Behavior of Electrically Conductive Graphene Nanoplatelets/Polymer Nanocomposites: Theory and Experiment*. *Fullerenes Nanotubes and Carbon Nanostructures* 01/2014; 22(5), DOI:10.1080/1536383X.2012.684186
- A.-A. Balog, N. Cobirzan, L. Barbu-Tudoran: *Evaluation of limestone with non-invasive analytical methods*. *Romanian Journal of Physics* 01/2014; 59(5):601-607.
- Cristina Coman, Loredana Florina Leopold, Olivia Dumitrița Rugină, Lucian Barbu-Tudoran, Nicolae Leopold, Maria Tofană, Carmen Socaciu: *Green synthesis of gold nanoparticles by Allium sativum extract and their assessment as SERS substrate*. *Journal of Nanoparticle Research* 12/2013; 16(1), DOI:10.1007/s11051-013-2158-4
- Julietta Daniela Chelaru, Lucian Barbu-Tudoran, L.M. Mureșan: *Protection of artistic bronzes by artificial patina and wax*. *Studia Universitatis Babeș-Bolyai Chemia* 12/2013; 58(4):173-182.

- Julieta Daniela Chelaru, Liana Maria Muresan, Vasile Filip Soporan, Ovidiu Nemes, Lucian Barbu-Tudoran: *Investigation of a naturally patinated bronze artifact originating from the outdoor statuary group of Mathias Rex*. Journal of Cultural Heritage 12/2013; 15(5)., DOI:10.1016/j.culher.2013.11.005
- A. Vulcu, S. Pruneanu, C. Berghian-Grosan, L. Olenic, L. M. Muresan, L. Barbu-Tudoran: *Impedimetric Investigation of Gold Nanoparticles - Guanine Modified Electrode*. 11/2013; 1565(1):273-277., DOI:10.1063/1.4833743
- L. Olenic, A. Vulcu, I. Chiorean, M. Crisan, C. Berghian-Grosan, S. Dreve, L. David, L. B. Tudoran, I. Kacso, I. Bratu, C. Neamtu, C. Voica: *Effect of Natural Extracts pH on Morphological Characteristics of Hybrid Materials Based on Gold Nanoparticles*. 11/2013; 1565(1):238-242., DOI:10.1063/1.4833735
- Marcela Stoia, Paul Barvinschi, Lucian Barbu-Tudoran, Adina Negrea, Floricica Barvinschi: *Influence of thermal treatment on the formation of zirconia nanostructured powder by thermal decomposition of different precursors*. Journal of Crystal Growth 10/2013; 381:93-99., DOI:10.1016/j.jcrysgro.2013.07.018
- Corina Danciu, Alexandra Falamas, Cristina Dehelean, Codruta Soica, Heinfried Radeke, Lucian Barbu-Tudoran, Florina Bojin, Simona Cînt Pînzaru: *A characterization of four B16 murine melanoma cell sublines molecular fingerprint and proliferation behavior*. Cancer Cell International 07/2013; 13(1):75., DOI:10.1186/1475-2867-13-75
- Marcel Parvu, Laurian Vlase, Laszlo Fodorpataki, Ovidiu Parvu, Oana Rosca-Casian, Csaba Bartha, Lucian Barbu-Tudoran, Alina Elena Parvu: *Chemical Composition of Celandine (Chelidonium majus L.) Extract and its Effects on Botrytis tulipae (Lib.) Lind Fungus and the Tulip*. Notulae Botanicae Horti Agrobotanici Cluj-Napoca 07/2013; 41(2):414-426., DOI:10.15835/nbha4129077
- Marcela Stoia, Lucian Barbu Tudoran, Paul Barvinschi: *Nanosized zinc and magnesium ferrites obtained from PVA-metal nitrates' solutions*. Journal of Thermal Analysis and Calorimetry 07/2013; 113(1)., DOI:10.1007/s10973-012-2888-z
- M. Barbu, M. Stoia, P. Barvinschi, L. Barbu-Tudoran, M. Stefanescu: *Study on the formation of MCr<sub>2</sub>O<sub>4</sub>/SiO<sub>2</sub> nanocomposites from hybrid gels PVA-TEOS-metal nitrates*. Thermochimica Acta 07/2013; 564:43-50., DOI:10.1016/j.tca.2013.04.020
- Maria Coros, Alexandru R. Biris, Florina Pogacean, Lucian Barbu Tudoran, Camelia Neamtu, Fumiya Watanabe, Alexandru S. Biris, Stela Pruneanu: *Influence of chemical oxidation upon the electro-catalytic properties of graphene-gold nanoparticle composite*. Electrochimica Acta 02/2013; 91:137-143., DOI:10.1016/j.electacta.2012.12.122
- O M Gui, A Fălămaș, L Barbu-Tudoran, D M Aluaș, B Giambra, S Cîntă Pînzaru: *Surface-enhanced Raman scattering (SERS) and complementary techniques applied for the investigation of an Italian cultural heritage canvas*. Journal of Raman Spectroscopy 02/2013; 44(2)., DOI:10.1002/jrs.4186
- Shixin Yang, Lucian Barbu-Tudoran, Marek Orzechowski, Roger Craig, John Trinick, William Lehman, Howard White: *3D-Reconstruction Reveals the Organization of Troponin on Cardiac Thin Filaments*. Biophysical Journal 01/2013; 104(2):453-., DOI:10.1016/j.bpj.2012.11.2509



- M. Suciu, A.T. Gruia, F.A. Mic, L. Barbu-Tudoran, A. Ardelean: *Gentiana asclepiadea* ethanolic extract hepatotoxicity. *Annals of the Romanian Society for Cell Biology* 01/2013; 18(1):255-261.
- İbrahim Mutlay, Lucian Barbu Tudoran: *Chlorosulfonic Acid-based Room Temperature Chemical Expansion Route for the Bulk Production of Graphite Nanoplatelets*. *Fullerenes Nanotubes and Carbon Nanostructures* 01/2013; 21(2)., DOI:10.1080/1536383X.2011.588813
- Lucian Barbu-Tudoran, Oana I Gavriiliuc, Virgil Paunescu, Felix A Mic: *Accumulation of tissue macrophages and depletion of resident macrophages in the diabetic thymus in response to hyperglycemia-induced thymocyte apoptosis*. *Journal of diabetes and its complications* 11/2012; 27(2)., DOI:10.1016/j.jdiacomp.2012.10.007
- Stoia Marcela Elena, Mirela Barbu, Mircea Stefanescu, Paul Barvinschi, Lucian Barbu-Tudoran: *Synthesis of nanosized zinc and magnesium chromites starting from PVA-metal nitrate solutions*. *Journal of Thermal Analysis and Calorimetry* 10/2012; 110(1):85-92., DOI:10.1007/s10973-011-2084-6
- T. Radu, D. Benea, R. Ciceo-Lucacel, L. Barbu-Tudoran, and S. Simon: *X-ray Photoelectron Spectroscopic Characterization of Ag Nanoparticles Embedded Bioglasses*. *The Journal of Physical Chemistry C* 08/2012; 116(33):17975., DOI:10.1021/jp306035n
- Andrada Soancă, Alexandra Roman, Marioara Moldovan, Ioana Perhaita, Lucian-Barbu Tudoran, Mihai Romînu: *Study on thermal behaviour, structure and filler morphology of some indirect composite resins*. *Digest Journal of Nanomaterials and Biostructures* 07/2012; 7(3).
- Marcela Stoia, Paul Barvinschi, Lucian Barbu-Tudoran: *Thermal decomposition of metal nitrates*. *Journal of Thermal Analysis and Calorimetry* 07/2012; 113(1)., DOI:10.1007/s10973-012-2786-4
- Constantin Craciun, Lucian Barbu-Tudoran: *Identification of new structural elements within 'porosomes' of the exocrine pancreas: A detailed study using high-resolution electron microscopy*. *Micron* 06/2012; 44(1)., DOI:10.1016/j.micron.2012.05.011
- Daniela Esian, Lucian Barbu Tudoran, Cristina Bica: *Dentin Hybridization - Modern Based Therapy of Restoration of Compromised Dental Structure*. *International Journal of Scientific Research* 06/2012; 2(10):1-4., DOI:10.15373/22778179/OCT2013/108
- Marcela Stoia, Paul Barvinschi, Lucian Barbu Tudoran, Mirela Barbu, Mircea Stefanescu: *Synthesis of Nanocrystalline Nickel Ferrite by Thermal Decomposition of Organic Precursors*. *Journal of Thermal Analysis and Calorimetry* 06/2012; 108(3):1-7., DOI:10.1007/s10973-011-1903-0
- A. Roman, A. Soanca, L. Barbu-Tudoran, A.I. Irimie, E. Páll: *Comparative evaluation of the influence of two resinbased restorative materials on the behaviour of progenitor-like cells*. *Journal of Optoelectronics and Advanced Materials* 05/2012; 14(5):491-496.
- Rahela Carpa, Anca Butiuc-Keul, Iulia Lupan, Lucian Barbu-Tudoran, Vasile Muntean, Cristina Dobrotă: *Poly-β-hydroxybutyrate accumulation in bacterial consortia from different environments*. *Canadian Journal of Microbiology* 04/2012; 58(5):660-7., DOI:10.1139/w2012-037

- Marcela Stoia, Oana Stefanescu, Gabriela Vlase, Lucian Barbu-Tudoran, Mirela Barbu, Mircea Stefanescu: *Silica matrices for embedding of magnetic nanoparticles*. Journal of Sol-Gel Science and Technology 04/2012; 62(1):31., DOI:10.1007/s10971-012-2679-9
- Stela Pruneanu, Liliana Olenic, Florina Pogacean, Lucian Barbu Tudoran, Valentin Canpean, Adriana Vulcu, Camelia Grosan, A. S. Biris: *Nanostructures Based On Metallic Nanoparticles And Biomolecules*. 02/2012; 1425(1):144-147., DOI:10.1063/1.3681987
- Shixin Yang, Lucian Barbu-Tudoran, Roger Craig, John Trinick, William Lehman, Howard White: *Visualization of Troponin on Muscle Thin Filaments by Single Particle Analysis*. Biophysical Journal 01/2012; 102(3):229-., DOI:10.1016/j.bpj.2011.11.1260
- T. Stefanescu, C. Craciun, L. Barbu-Tudoran: *Scanning electron-microscope study upon the MTA-pulp interface*. Annals of the Romanian Society for Cell Biology 01/2012; 17(2):92-100.
- A. Bica, L. Barbu-Tudoran, B. Drugă, C. Coman, A. Nicoară, T. Szöke-Nagy, N. Dragoş: *Desmodesmus communis (Chlorophyta) from Romanian freshwaters: Coenobial morphology and molecular taxonomy based on the ITS2 of new isolates*. Annals of the Romanian Society for Cell Biology 01/2012; 17(1):16-28.
- M. Suci, A.T. Gruia, F.A. Mic, L. Barbu-Tudoran, V. Muntean, A. Ardelean: *Preliminary results on study of the hepatoprotective and antimicrobial effects of Gentiana Asclepiadea ethanolic extract*. Annals of the Romanian Society for Cell Biology 01/2012; 17(2):207-212.
- A -I a Cadiş, E -J a Popovici, E a Bica, I a Perhaița, L b Barbu-Tudoran: *On the preparation of zinc sulphide powders from singlesource molecular precursors: Thermal descomposition of zinc diethyldithiocarbamate*. Journal of Optoelectronics and Advanced Materials 11/2011; 13(11):1458 - 1461.
- Mircea Stefanescu, Mirela Barbu, Titus Vlase, Paul Barvinschi, Lucian Barbu-Tudoran, Marcela Stoia: *Novel low temperature synthesis method for nanocrystalline zinc andmagnesium chromites*. Thermochemica Acta 11/2011; 526(1-2):130-136., DOI:10.1016/j.tca.2011.09.005
- A.-I Cadiş, E.-J Popovici, E Bica, I Perhaița, L Barbu-Tudoran, E Indrea, L Silaghi-Dumitrescu: *Synthesis of Manganese Doped Zinc Sulphide Nanocrystalline Powders by Wet-Chemical Synthesis Route*. Digest Journal of Nanomaterials and Biostructures 11/2011; 6(Vol. 6, No 4):1479 - 1489.
- Ecaterina BICA, Elisabeth Jeanne POPOVICI, Maria ȘTEFAN, I. PERHAITA, L. BARBU-TUDORAN, Emil INDREA, I. Catalin POPESCU: *Morphological, structural and optical characterization of tungsten trioxide films prepared by sol-gel route: effect of substrate and annealing temperature*. Digest Journal of Nanomaterials and Biostructures 10/2011; 6(4):1935-1946.
- Daniela Esian, Lucian Barbu Tudoran, Cristina Bica: *Dentin Hybridization - Modern Based Therapy of Restoration of Compromised Dental Structure*. Indian Journal of Applied Research 10/2011; 3(10):1-4., DOI:10.15373/2249555X/OCT2013/101
- Tudor Tămaş, Ferenc Kristály, Lucian Barbu-Tudoran: *Mineralogy of Iza Cave (Rodnei Mountains, N. Romania)*. International Journal of Speleology (Edizione Italiana) 08/2011; 40(2):171-179., DOI:10.5038/1827-806X.40.2.9

- M Baia, G Melinte, L Barbu-Tudoran, L Diamandescu, V Iancu, V Cosoveanu, V Danciu, L Baia: *Highly porous nanocomposites based on TiO<sub>2</sub>-noble metal particles for sensitive detection of water pollutants by SERS*. Journal of Physics Conference Series 07/2011; 304(1):012059., DOI:10.1088/1742-6596/304/1/012059
- Marcela Stoia, Mircea Stefanescu, Mirela Barbu, Paul Barvinschi, Lucian Barbu-Tudoran: *Studies regarding the formation from metal nitrates and diol of NiM<sub>2</sub> III O<sub>4</sub> spinels, inside a silica matrix*. Journal of Thermal Analysis and Calorimetry 06/2011; 108(3)., DOI:10.1007/s10973-011-1994-7
- Alexandra T Gruia, Lucian Barbu-Tudoran, Ani A Mic, Valentin L Ordodi, Virgil Paunescu, Felix A Mic: *Arachidonic acid accumulates in the stromal macrophages during thymus involution in diabetes*. Histochemie 05/2011; 136(1):79-92., DOI:10.1007/s00418-011-0820-4
- Popovici Elisabeth-Jeanne, Morar M, Bica Ecaterina, Perhaita I, Cadis A I, Indrea Emil, Barbu-Tudoran L: *Synthesis and characterization of cerium doped yttrium-gadolinium aluminate phosphors by wet-chemical synthesis route*. Journal of Optoelectronics and Advanced Materials 05/2011; 13(5):617 - 624.
- Marcela Stoia, Costica Caizer, Mircea Ștefănescu, Paul Barvinschi, Lucian Barbu-Tudoran: *Characterisation of nickel-zinc ferrite/silica nanocomposites with low ferrite concentration obtained by an improved modified sol-gel method*. Journal of Sol-Gel Science and Technology 04/2011; 58(1):126-134., DOI:10.1007/s10971-010-2365-8
- Rahela Carpa, Lucian Barbu-Tudoran: *Investigation of the poly-β-hydroxybutyrate (PHB) producing in mountain bacterial strains by transmission electron microscopy*. Romanian Biotechnological Letters 03/2011; 16(2).
- L. Baia, L. Diamandescu, L. Barbu-Tudoran, A. Peter, G. Melinte, V. Danciu, M. Baia: *Efficient dual functionality of highly porous nanocomposites based on TiO<sub>2</sub> and noble metal particles*. Journal of Alloys and Compounds 02/2011; 509(6):2672-2678., DOI:10.1016/j.jallcom.2010.11.154
- Sanda Boca, Dumitrita Rugina, Adela Pinteau, Lucian Barbu-Tudoran, Simion Astilean: *Flower-shaped gold nanoparticles: Synthesis, characterization and their application as SERS-active tags inside living cells*. Nanotechnology 02/2011; 22(5):055702., DOI:10.1088/0957-4484/22/5/055702
- Cristian Coman, Adriana Bica, Bogdan Drugă, Lucian Barbu-Tudoran, Nicolae Dragoș: *Methodological constraints in the molecular biodiversity study of a thermomineral spring cyanobacterial mat: A case study*. Antonie van Leeuwenhoek 02/2011; 99(2):271-81., DOI:10.1007/s10482-010-9486-5
- A.-I. CADIȘ, Elisabeth-Jeanne POPOVICI, Ecaterina BICA, I. PERHAIȚĂ, L. BARBU-TUDORAN, Emil INDREA: *On the preparation of Manganese-doped zinc sulphide nanocrystalline powders using the wet-chemical synthesis route*. Chalcogenide Letters 11/2010; 7(11):631 - 640.
- PARVU Marcel, Alina Elena PARVU, CRACIUN Constantin, BARBU-TUDORAN Lucian, VLASE Laurian, TAMAS Mircea, ROSCA-CASIAN Oana, PERSECA Ovidiu, MOLNAR Ana-Maria: *Changes in Botrytis cinerea Conidia Caused by Berberis vulgaris Extract*. Notulae Botanicae Horti Agrobotanici Cluj-Napoca 07/2010; 38(3)., DOI:10.15835/nbha3834741

- Elisabeth-Jeanne Popovici, Mihail Nazarov, Laura Muresan, Young Do, Noh, Lucian Barbu Tudoran, Ecaterina Bica, Emil Indrea: *Synthesis and characterisation of terbium activated yttrium tantalate phosphor*. Journal of Alloys and Compounds 05/2010; 497(1-2):201-209., DOI:10.1016/j.jallcom.2010.03.010
- M. Pârvu, L. Barbu-Tudoran, O. Roşca-Casian, L. Vlase, S. Tripon: *Ultrastructural changes in fusarium oxysporum f. sp. tulipae hyphae treated in vitro with allium fistulosum plant extract*. Annals of the Romanian Society for Cell Biology 01/2010; 15(2):65-72.
- Tudor Petreus, Carmen Elena Cotrutz, Andrei Neamtu, Ana-Maria Oprea, Lucian Barbu Tudoran, Mihaela Zlei, Ancuta Goriuc, Dragos Peptanariu: *Anti-tumor potential of some new synthesized dihydroxamic compounds*. Annals of the Romanian Society for Cell Biology 01/2010; 15(2):368-372.
- A -I a Cadiş, E -J a Popovici, E a Bica, L c Barbu-Tudoran: *Studies on the synthesis of manganese doped zinc sulphide nanocrystalline powders*. Studia Universitatis Babeş-Bolyai. Chemia 01/2010; 2(2):265 - 271.
- E.-J Popovici, L Muresan, M Stefan, M Morar, R Grecu, E Indrea, L Barbu-Tudoran: *Synthesis and characterisation of cerium doped yttrium aluminate prepared by wet-chemical synthesis route*.
- Marcela Achim, C.G Precup, D. Gongnanau, Lucian Barbu-Tudoran, Alina Silvia Porfire, R.R Scurtu, Constantin Ciuce: *Thermosensitive liposomes containing doxorubicin. Preparation and in vitro evaluation*. Farmacia 11/2009; 57(6-6):703-710.
- Stela Pruneanu, Liliana Olenic, Lucian Barbu Tudoran, Irina Kacso, Said A. Farha Al-Said, Reda Hassanien, Andrew Houlton, Benjamin R. Horrocks: *Preparation of 1D nanostructures using biomolecules*. Journal of Physics Conference Series 08/2009; 182(1)., DOI:10.1088/1742-6596/182/1/012014
- Elisabeth Jeanne POPOVICI, M. MORAR, Laura MUREŞAN, Rodica GRECU, L. BARBU-TUDORAN, Emil INDREA: *Study on the synthesis of cerium doped yttrium aluminate powders with luminescent properties*.
- TAMAS Mircea, POP Carmen, MARTIAN Ada, BARBU-TUDORAN Lucian: *Morphological Research on Indigenous Sambucus Species Pollen*. Notulae Botanicae Horti Agrobotanici Cluj-Napoca 06/2009; 37(1)., DOI:10.15835/nbha3713097
- PARVU Marcel, Alina Elena PARVU, CRACIUN Constantin, BARBU-TUDORAN Lucian, PUSCAS Mihai: *Ultrastructure and Development of Anthracoidea Elynae Ustilosporos*. Notulae Botanicae Horti Agrobotanici Cluj-Napoca 06/2009; 37(1)., DOI:10.15835/nbha3713092
- Laura Muresan, Elisabeth-Jeanne Popovici, Rodica Grecu, Lucian Barbu Tudoran: *Studies on the synthesis of europium activated yttrium oxide by wet-chemical method: 1. Influence of precursor quality on phosphor photoluminescence properties*. Journal of Alloys and Compounds 03/2009; 471(s 1-2):421-427., DOI:10.1016/j.jallcom.2008.03.100
- Elisabeth-Jeanne Popovici, Maria Stefan, Florica Imre-Lucaci, Laura Muresan, Ecaterina Bica, Emil Indrea, Lucian Barbu-Tudoran: *STUDIES ON THE SYNTHESIS OF CERIUM ACTIVATED YTTRIUM ALUMINATE PHOSPHOR BY WET-CHEMICAL ROUTE*. Physics procedia 02/2009; 2(2):603-616.

- Anca Peter, Monica Baia, Felicia Toderas, Mihaela Lazar, Lucian Barbu Tudoran, Virginia Danciu: *Photocatalysts based on gold - Titania composites*. *Studia Universitatis Babes-Bolyai Chemia* 01/2009; 3(3):161-171.
- A -I a Cadiş, A R a Tomşa, E a Bica, L c Barbu-Tudoran, L b Silaghi-Dumitrescu, E -J a Popovic: *Preparation and characterization of manganese doped zinc sulphide nanocrystalline powders with luminescent properties*. 01/2009; 3(3):23-29.
- ECATERINA BICA, LAURA ELENA MUREŞAN, LUCIAN BARBU TUDORAN, EMIL INDREA, IONEL CĂTĂLIN POPESCU, ELISABETH-JEANNE POPOVICI: *Studies on WO<sub>3</sub> thin films prepared by dip-coating method*. *Studia Universitatis Babes-Bolyai Chemia* 01/2009; 3(3):15-22.
- Manlio Tassieri, R M L Evans, Lucian Barbu-Tudoran, G Nasir Khaname, John Trinick, Tom A Waigh: *Dynamics of Semiflexible Polymer Solutions in the Highly Entangled Regime*. *Physical Review Letters* 12/2008; 101(19):198301., DOI:10.1103/PhysRevLett.101.198301
- Laura MURESAN, Elisabeth-Jeanne POPOVICI, A. R. TOMSA, Luminita SILAGHI-DUMITRESCU, L. BARBU-TUDORAN, Emil INDREA: *Preparation by dip coating method and characterisation of WO<sub>3</sub> thin films*. *Journal of Optoelectronics and Advanced Materials* 09/2008; 10(9):2261-2264.
- L. Muresan, E.J. Popovici, A.R. Tomsa, L. Silaghi-Dumitrescu, L. Barbu-Tudoran, E. Indrea: *Preparation by dip coating method and characterisation of WO<sub>3</sub> thin films*. *Journal of Optoelectronics and Advanced Materials* 09/2008; 10(9):2261-2264.
- L. Barbu-Tudoran, Gh. Tomoaia, O. Horovitz, A. Mocanu, M. Tomoaia-Cotisel: *Self-assembly characteristics of gold nanoparticles in the presence of arginine*. *OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS* 09/2008; 10(9):2293-2297.
- A -R a Tomşa, E -J a Popovici, A I a Cadiş, M a Ştefan, L c Barbu-Tudoran, S d Aştilean: *Ultrasound-assisted synthesis of highly disperse zinc sulphide powders*. 09/2008; 10(9-9):2342-2345.
- M. Bogdan, A. Nan, C. V. L. Pop, L. Barbu-Tudoran, I. Ardelean: *Preparation and NMR Characterization of Polyethyl-2-cyanoacrylate Nanocapsules*. *Applied Magnetic Resonance* 07/2008; 34(1-2)., DOI:10.1007/s00723-008-0090-z
- Marcel Pârvu, Alina Elena Pârvu, Constantin Crăciun, Lucian Barbu-Tudoran, Mircea Tămaş: *Antifungal Activities of Chelidonium majus Extract on Botrytis cinerea in vitro and Ultrastructural Changes in its Conidia*. *Journal of Phytopathology* 05/2008; 156(9):550 - 552., DOI:10.1111/j.1439-0434.2008.01410.x
- M Tassieri, R M L Evans, L Barbu-Tudoran, J Trinick, T.A. Waigh: *The Self-Assembly, Elasticity, and Dynamics of Cardiac Thin Filaments*. *Biophysical Journal* 03/2008; 94(6):2170-8., DOI:10.1529/biophysj.107.116087
- Dorina Cachiţă-Cosma, Daniela Beles, C. Craciun, L. Barbu-Tudoran: *Comparative anatomical and ultrastructural investigations on normal and vitroplantlets leaves from Pistia stratiotes L*. DOI:10.1007/978-3-540-85228-5\_56

- D. Cachita, A. Ardelean, C. Craciun, V. Turcus, L. Barbu-Tudoran: *The procaine hydrochlorate effect onto the corpuscular anthocyanins from the vacuolar sap of different plant cells*. DOI:10.1007/978-3-540-85228-5\_55
- V. Turcuș, D. Cachiță, C. Crăciun, A. Ardelean, L. Barbu-Tudoran, C. Mihali: *Light and electron microscopy aspects of the glandular sessile hairs from the vitroplantlet leave of Drosera rotundifolia*. DOI:10.1007/978-3-540-85228-5\_75
- L. Barbu-Tudoran, M. Spanu, C. Craciun, C. V. Mihali: *Structural and ultrastructural investigations on the in vitro effects of plant extracts in chicken and rabbit whole blood cultures*. DOI:10.1007/978-3-540-85228-5\_53
- O. Pana, C.M. Teodorescu, Olivier Chauvet, Christophe Payen, D. Macovei, R. Turcu, M.L. Soran, N. Aldea, L. Barbu: *Structure, morphology and magnetic properties of Fe–Au core-shell nanoparticles*. Surface Science 09/2007; 601(18):4352-4357., DOI:10.1016/j.susc.2007.06.024
- STEFANESCU Cristina, TAMAS Mircea, BARBU-TUDORAN Lucian: *Anatomical studies on Scopolia carniolica Jacq. vegetative organs*. Notulae Botanicae Horti Agrobotanici Cluj-Napoca 08/2006; 34(1)., DOI:10.15835/nbha341252
- C G Oster, N Kim, L Grode, L Barbu-Tudoran, AK Schaper, S H E Kaufmann, T Kissel: *Cationic microparticles consisting of poly(lactide-co-glycolide) and polyethylenimine as carriers systems for parental DNA vaccination*. Journal of Controlled Release 06/2005; 104(2):359-77., DOI:10.1016/j.jconrel.2005.02.004
- LILIANA OLENIC, GHEORGHE MIHAILESCU, STELA PRUNEANU, IOAN BRATU, ALEXANDRU R. BIRIS, DAN LUPU, GRIGORE SIGARTAU, LUCIAN B. TUDORAN: *Nanoparticles from a Gold Complex with Sulfite Ion as Ligand: Preparation and Characterization*. Particulate Science And Technology 03/2005; 23(1):79-83., DOI:10.1080/02726350590886144
- Ulrich Westedt, Lucian Barbu-Tudoran, Andreas K Schaper, Marc Kalinowski, Heiko Alfke, Thomas Kissel: *Effects of different application parameters on penetration characteristics and arterial vessel wall integrity after local nanoparticle delivery using a porous balloon catheter*. European Journal of Pharmaceutics and Biopharmaceutics 08/2004; 58(1):161-8., DOI:10.1016/j.ejpb.2004.03.009
- Christine G Oster, Matthias Wittmar, Florian Unger, Lucian Barbu-Tudoran, Andreas K Schaper, Thomas Kissel: *Design of Amine-Modified Graft Polyesters for Effective Gene Delivery Using DNA-Loaded Nanoparticles*. Pharmaceutical Research 07/2004; 21(6):927-31., DOI:10.1023/B:PHAM.0000029279.50733.55
- Ulrich Westedt, Lucian Barbu-Tudoran, Andreas K Schaper, Marc Kalinowski, Heiko Alfke, Thomas Kissel: *Deposition of nanoparticles in the arterial vessel by porous balloon catheters: Localization by confocal laser scanning microscopy and transmission electron microscopy*. AAPS PharmSci 02/2002; 4(4):E41., DOI:10.1208/ps040441
- Nicoleta G Hădărugă, Daniel I Hădărugă, Paulina Vlăzan, Lucian Barbu-Tudoran: *New liposomes containing cobalt ferrite nanoparticles: synthesis and characterization*.

## Patents

## Conference Proceedings

Radu Gavrea, Marin Coldea, Lucian Barbu-Tudoran, Olivier Isnard, Viorel Pop, Diana Benea: *Reduction of the substitutional disorder by heat treatments in Mn 2-x Co x VAl Heusler alloys*. RoPM&AM 2017, Cluj-Napoca; 12/2018, DOI:10.21741/9781945291999-25

Simona Miclaus, Paul Bechet, George Mihai, Cristina Moisescu, Ioan Ardelean, Lucian Barbu-Tudoran, Teodora Maria Radu, Simona Oancea, Mihaela Racuciu: *Radiofrequency Stimuli Applied to Suspensions Containing Biogenic Magnetite Nanocrystals: Absorbed Energy Conversion*. 2018 International Conference and Exposition on Electrical And Power Engineering (EPE); 10/2018, DOI:10.1109/ICEPE.2018.8559675

M. Pustan, C. Birleanu, A. Trif, S. Garabagiu, D. Marconi, L. Barbu-Tudoran: *Effect of the Deposition Conditions on Titanium Oxide Thin Films Properties*. 2018 International Semiconductor Conference (CAS); 10/2018, DOI:10.1109/SMICND.2018.8539738

Sergiu Macavei, Dana Toloman, Maria Stefan, Adriana Popa, Lucian Barbu-Tudoran, Camelia Grosan, Ramona Suci, Ovidiu Pana, Radu Balan: *Characterization of Cu<sub>2</sub>ZnSnS<sub>4</sub> thin film deposited by pulse laser deposition*. 11TH INTERNATIONAL CONFERENCE OF PROCESSES IN ISOTOPES AND MOLECULES (PIM 2017); 12/2017, DOI:10.1063/1.5018292

Vlad Alexandru Toma, Alexandru Farcăsanu, Alexandra Sevastre Berghian, Lucian Barbu Tudoran, Septimiu Tripon, Bogdan Sevastre, Anca Farcas, Ioana Roman, Simion Simon, Marcel Pârveu: *Behavior, MRI features and ultrastructural bases of the autism like-disorders induced in rats by prenatally exposed to sodium valproate*. 11/2017

Anca-Daniela Farcas, Vlad-Alexandru Toma, Parvu Alina Elena, Septimiu Tripon, Lucian Barbu-Tudoran, Ioana Roman, Marcel Parvu: *CHEMOPROTECTIVE EFFECT OF PLANTAGO SEMPERVIRENS EXTRACT ON OVARIAN STRUCTURE AND FOLLICULOGENESIS*. 9th National Congress with International Participation and 35th Annual Scientific Session of the Romanian Society for Cell Biology, Iasi, Romania; 06/2017

Simona Cîntă Pînzaru, A. Fălămas, C. A. Dehelean, C. Soica, S. Ciurlea, M. Aluaş, L. Barbu-Tudoran: *Exploiting the Surface Plasmon resonance of the Functionalized Nanoparticles in Skin Pathology and Therapy Monitoring*. 5-th CLINAM &European Summit for Clinical Nanomedicine, Basel, Switzerland; 05/2012

G Melinte, M Baia, D Georgescu, L Baia, V Iancu, L Diamandescu, T Popescu, L.C. Cotet, L Barbu-Tudoran, V Danciu, S Simon: *The Influence of the Au Nanoparticles Dimension on the Photocatalytic Performances of TiO<sub>2</sub> –Au Porous Composites*. Acta Physica Polonica Series a; 01/2012, DOI:10.12693/APhysPolA.121.208

Mihaela Corneanu, Carmen Lazău, Ioan Grozescu, D E M C Timișoara, Daniel I Hădăruță, Gabriel C Corneanu, Aurel Ardelean, Nicoleta G Hădăruță, Lucian Barbu-Tudoran: *The Radiobiological Effect of the TiO<sub>2</sub> – Cyclodextrin Suspension*. ICQNM 2011 : The Fifth International Conference on Quantum, Nano and Micro Technologies, Nice, France; 08/2011

A-I Cadis, Elisabeth Jeanne Popovici, Ecaterina Bica, I Perhaita, L Barbu-Tudoran, Emil Indrea: *Studies on the synthesis of manganese doped zinc sulfide nanocrystalline powders using methacrylic acid as additive*. Semiconductor Conference (CAS), 2010 International; 11/2010, DOI:10.1109/SMICND.2010.5650477

Adrian Ionut Cadis, Adrian Raul Tomsa, Maria Stefan, Rodica Grecu, Lucian Barbu-Tudoran, Luminita Silaghi-Dumitrescu, Elisabeth-Jeanne Popovici: *Studies on the synthesis of Mn-doped ZnS nanoparticles with luminescent properties*. Advanced Spectroscopies on Biomedical & Nanostructured Systems; 04/2009, DOI:10.13140/RG.2.1.2242.2249

Elisabeth-Jeanne Popovici, Maria Stefan, Florica Imre-Lucaci, Laura Muresan, Ecaterina Bica, Emil Indrea, Lucian Barbu-Tudoran: *Studies on the synthesis of cerium activated yttrium aluminate phosphor by wet-chemical route*. International Conference on Luminescence and Optical Spectroscopy of Condensed Matter (ICL'08); 07/2008, DOI:10.1016/j.phpro.2009.07.046