

PERSONAL INFORMATION

Ciobota Cristina Florentina

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WORK EXPERIENCE

- 2012 – present **Scientific researcher CSIII**
 National R&D Institute for Nonferrous and Rare Metals- IMNR, 102 Biruintei Blvd., Pantelimon, Ilfov
 Nanostructured Materials Laboratory
 Activities in the field of nanomaterial synthesis: oxides, ceramics, hybrids. Thin layer deposition, impedance measurements.
- 2009 – 2012 **Scientific researcher**
 National R&D Institute for Nonferrous and Rare Metals- IMNR, 102 Biruintei Blvd., Pantelimon, Ilfov
 Nanostructured Materials Laboratory
 Activities in the field of nanomaterial synthesis: oxides, ceramics, hybrids. Thin layer deposition.
- 2006 – 2009 **Scientific Research Assistant**
 National R&D Institute for Nonferrous and Rare Metals- IMNR, 102 Biruintei Blvd., Pantelimon, Ilfov
 Nanostructured Materials Laboratory
 Activities in the field of nanomaterial synthesis: oxides, ceramics, hybrids.

EDUCATION AND TRAINING

- 2018 **PhD. in Chemistry**
 PhD thesis: “Thermodynamic properties of nanostructured oxide materials for sensors applications”
 Institute of Physical Chemistry „Ilie Murgulescu” of Romanian Academy – field: Physical Chemistry
- 2006 – 2008 **Master in Science Diploma in the field of Engineering Systems Automation and methods of environmental protection**
 Politehnica University of Bucharest, Material Science Faculty, Department of Environmental Protection
- 2001 – 2006 **Bachelor in Material Science (Diplomat Material Science Engineer)**
 Politehnica University of Bucharest, Faculty of Engineering in Foreign Languages (FILS), English Stream Branch Material Science and Engineering .

PERSONAL SKILLS AND COMPETENCES

Self-assessment

| | UNDERSTANDING | | SPEAKING | | WHRITING |
|---------|---------------|---------|----------------|---------------|-----------|
| | Listening | Reading | Conversational | Oral discours | Whritting |
| English | C1 | C1 | C1 | C1 | C1 |
| French | C1 | C1 | B1 | B1 | B1 |

Computer skills and competences WORD, EXCEL, POWER POINT, NOVA 2.1.Malvern v.10.

| Nr. ctr. | Published papers/Selection | Nume prenume / Data |
|----------|---|---|
| 1 | C. F. Ciobota , R. M. Piticescu, C. Neagoe , I. A. Tudor ,A. Matei Dumitru V. Dragut , A. Sobetkii , E. M. Anghel ,A. Stanoiu, C. E. Simion , O. G. Florea , S. E. Bejan | Nanostructured Cobalt Doped Barium Strontium Titanate Thin Films with Potential in CO2 Detection, <i>Materials</i> , 13, 2020, 4797; doi:10.3390/ma13214797 ISSN: 1996-1944 |
| 2 | A. Sobetkii, A.I. Tudor, C.F. Rusti , R.R. Piticescu A. Rinaldi, D. Valerini. | Zirconium Perovskite Coatings Obtained by Combinatorial EB-PVD Process, <i>Proceedings - 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe, IEEEIC/I and CPS Europe 2018</i> |
| 3 | Tudor A.I, Motoc A.M., Ciobota C.F. , Ciobota D.N., Piticescu, R.R. Romero-Sanchez M.D. | Solvothermal method as a green chemistry solution for micro-encapsulation of phase change materials for high temperature thermal energy storage <i>Manufacturing Review</i> , Volume 5, 2018, Article number 4 |
| 4 | A. Stanoiu, R.M. Piticescu, C.E. Simion, C.F. Ruști-Ciobota , O.G. Florea, V.S. Teodorescu, P. Osiceanu, A. Sobetkii, V. Badilita | H ₂ S selective sensitivity of Cu doped BaSrTiO ₃ under operando conditions and the associated sensing mechanism <i>Sensors and Actuators B</i> 264 (2018) 327–336 |
| 5 | C.F. Ruști , V. Badilita, A.M. Sofronia, D. Taloi, E.M. Anghel, , F. Maxim, C. Hornoiu, C. Munteanu, R.M. Piticescu, S. Tanasescu, | Thermodynamic properties of the Ba _{0.75} Sr _{0.25} TiO ₃ nanopowders obtained by hydrothermal synthesis <i>Journal of Alloys and Compounds</i> Volume 693, 5 February 2017, Pages 1000–1010 |
| 6 | R. R. Piticescu, A. M. Motoc, A. I. Tudor, C. F. Rusti , R. M. Piticescu, M. D. Ramiro-Sanchez | Hydrothermal Synthesis of Nanostructured Materials for Energy Harvesting Applications <i>International Journal of Materials Chemistry and Physics</i> , Vol. 1, No. 1, 2015, pp. 31-42 |
| 7 | C. E. Simion, A. Stanoiu, V. Ș. Teodorescu, C. F. Ruști R. M. Piticescu, E. Vasile, E. Vasile, I. A. Tudor, | Ammonia sensing with 5 mol% lanthanum doped barium strontium titanate under humid air background <i>Revue Roumaine de Chimie</i> , 2015, 61(2), 105-111 |
| 8 | C. E Simion, Dr; A. Sackmann; V. S. Teodorescu; C. F. Ruști ; A. Stanoiu. | Room temperature ammonia sensing with Barium Strontium Titanate under humid air background <i>Sensors and Actuators B</i> 220 (2015) 1241–1246 |
| 9 | L.M. Popescu, R. M. Piticescu, A. Antonelli, C. F. Ruști , E. Carboni, C. Sfara, M. Magnani, V. Badilita, E. Vasile, R. Trusca, T. Buruiana | Recent advances in synthesis, characterization of hydroxyapatite/polyurethane composites and study of their biocompatible properties <i>Journal of Materials Science: Materials in Medicine</i> , November 2013, Volume 24, Issue 11, pp 2491-2503 |
| 10 | L. M. Popescu, C. F. Ruști , R. M. Piticescu, T. Valero, S. Kintzios, T. Buruiana, | Synthesis and characterization of acid polyurethane – hydroxyapatite composites for biomedical applications. <i>Journal of Composite Materials</i> 47(5),603-612, 2013 |
| 11 | Cornelia Marinescu, Ancuta Sofronia, Cristina Ruști , Roxana Piticescu, Viorel Badilita, Eugeniu Vasile, Radu Baies, Speranta Tanasescu, | DSC investigation of nanocrystalline TiO ₂ powder <i>Journal of Thermal analysis and calorimetry</i> , 103 (2011) 49-57. |

Projects/selection:

1. FAST and Nano-Enabled SMART Materials, Structures and Systems for Energy Harvesting- nr: H2020 - 862289 - FAST – SMART (2020-2024)
2. New Concepts for Efficient Extraction of Mixed Rare Earth Oxides from Monazite Concentrates and their Potential Use as Dopant in High Temperature Coatings and Sintered Materials - ctr.50/2018- MONAMIX 2018-2021
3. Translational proof of concept of spintronic micro-nanoparticle non thermal vibrational therapy for glioblastomas, cod proiect ERANET-EURONANOMED II-NANOVIBER (2017-2020)
4. INNOVATIVE METHODS FOR ENHANCING HIGH TEMPERATURE THERMAL ENERGY STORAGE PROPERTIES OF PHASE CHANGE MATERIALS- ENERGHIGH 2016-2018