

➤ **Book chapter**

Elena-Alina Moacă, Elena Dorina Coricovac, Codruta Marinela Soica, Iulia Andreea Pinzaru, Cornelia Silvia Păcurariu and Cristina Adriana Dehelean, *Preclinical Aspects on Magnetic Iron Oxide Nanoparticles and Their Interventions as Anticancer Agents: Enucleation, Apoptosis and Other Mechanism* in Iron Ores and Iron Oxide Materials, Ed. V. Shatokha, IntechOpen, London, 2018, ISBN: 978-1-78923-321-6, Print ISBN: 978-1-78923-320-9, DOI: 10.5772/intechopen.69715, <http://dx.doi.org/10.5772/intechopen.74176>

➤ **Published works**

1. Robert Ianoș, Elena-Alina Moacă, Aylin Căpraru, Radu Lazău, Cornelia Păcurariu, Maghemite, γ -Fe₂O₃, nanoparticles preparation via carbon-templated solution combustion synthesis, *Ceramics International*, 44 (12)(2018) 14090-14094.
2. Eliza Muntean, Marcela Stoia, Cornelia Păcurariu, Facile synthesis, characterization and magnetic properties of manganese ferrite/carbon composites, *Thermochimica Acta* 667 (2018) 122–131.
3. Marcela Stoia, Cornelia Păcurariu, Ciprian Mihali, Iosif Mălăescu, Cătălin Nicolae Marin, Aylin Căpraru, Manganese ferrite-polyaniline hybrid materials: Electrical and magnetic properties, *Ceramics International*, <https://doi.org/10.1016/j.ceramint.2018.09.109>
(accepted for publication)

➤ **Communicated works**

1. Elena-Alina Moacă, Dorina Coricovac, Cristina Dehelean, Cornelia Păcurariu, Oleic acid double coated iron oxide nanoparticles as new relevant biocompatible nanoparticles with a particular mechanism of activity, 10th Congress of Toxicology in Developing Countries, 18-21.04.2018, Belgrad, Serbia.
2. Robert Ianoș, Aylin Căpraru, Radu Lazău, Cornelia Păcurariu, 18th International Multidisciplinary Scientific GeoConference SGEM, 30.06-09.07.2018, Albena Bulgaria.
3. Aylin Căpraru, Robert Ianoș, Radu Lazău, Cornelia Păcurariu, Roxana Racoviceanu, Combustion Synthesis and Characterization of Iron Oxide Nanoparticles, *New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*, 11th Edition, June 28-29, 2018, Timisoara, Romania
4. Aylin Căpraru, Robert Ianoș, Radu Lazău, Cornelia Păcurariu, Roxana Racoviceanu, Reaction Conditions Optimization for Preparing Maghemite by Combustion Synthesis, *New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*, 11th Edition, June 28-29, 2018, Timisoara, Romania
5. Aylin Căpraru, Robert Ianoș, Cornelia Păcurariu, Radu Lazău, Roxana Racoviceanu, Effect of fuel type and reaction atmosphere on the

preparation of maghemite by combustion synthesis, ESTAC12 12th European Symposium on Thermal Analysis and Calorimetry 27-30 August 2018 Brasov, Romania

6. Aylin Căpraru, Robert Ianoș, Cornelia Păcurariu, Radu Lazău, Combustion synthesis of maghemite with tailored specific surface area, ESTAC12 12th European Symposium on Thermal Analysis and Calorimetry 27-30 August 2018 Brasov, Romania

➤ **Diploma projects**

1. Nanomateriale magnetice functionalizate cu B-ciclodextrina pentru aplicatii biomnedicale – coordinated student Lehaci Cristina
2. Studiu de adsorbție privind îndepărtarea unor substanțe medicamentoase din ape uzate – coordinated student Drămnesc Adelina-Cătălina
3. Nanoparticule cu proprietăți dirijate folosite pentru facilitarea transportului de substanțe medicamentoase – coordinated student Sandu Roxana Ana-Maria

Aquirements

Portable densimeter DMA 35 Anton Paar (Price including VAT 12.921,62 RON)