

Results and dissemination – september 2019

➤ Published works

1. Marcela Stoia, Cornelia Păcurariu, Ciprian Mihali, Iosif Mălăescu, Cătălin Nicolae Marin, Aylin Căpraru, Manganese ferrite-polyaniline hybrid materials: Electrical and magnetic properties, *Ceramics International*, *Ceramics International* 45 (2019) 2725–2735.
<https://www.sciencedirect.com/science/article/pii/S0272884218325768>
(final version published)
2. Elena-Alina Moaca, Ciprian-Valentin Mihali, Ioana-Gabriela Macașoi, Roxana Racoviceanu (Babuța), Codruța Soica, Cristina-Adriana Dehelean, Cornelia Păcurariu, Sorin Florescu, Fe₃O₄@C Matrix with Tailorable Adsorption Capacities for Paracetamol and Acetylsalicylic Acid: Synthesis, Characterization, and Kinetic Modeling, *Molecules* 2019, 24, 1727; doi:10.3390/molecules24091727.
<https://www.mdpi.com/1420-3049/24/9/1727>
3. Moacă, Elena-Alina; Farcaș, Claudia; Coricovac, Dorina; Avram, Stefana; Mihali, Ciprian-Valentin; Drâghici, George-Andrei; Loghin, Felicia; Păcurariu, Cornelia; Dehelean, Cristina, Oleic Acid Double Coated Fe₃O₄ Nanoparticles as Anti-Melanoma Compounds with a Complex Mechanism of Activity—In Vitro and In Ovo Assessment, *Journal of Biomedical Nanotechnology*, Volume 15, Number 5, May 2019, pp. 893-909(17).
<https://www.ingentaconnect.com/content/asp/jbn/2019/00000015/00000005/art00003>

➤ Communicated works

1. Elena-Alina Moacă, Claudia Farcaș, Dorina Coricovac, Felicia Loghin, Cristina Dehelean, Cornelia Păcurariu, Citric Acid Coated Magnetic Iron Oxide Nanoparticles (Fe₃O₄): Synthesis, Characterization and Applications, *Nanotech France 2019*, 24-28 June, 2019, Paris, France.
2. Robert Ianoș, Aylin Căpraru, Radu Lazău, Cornelia Păcurariu, Preparation of tunable iron oxide nanoparticles via solution combustion synthesis, *XVI ECerS Conference*, 16-20 June, 2019 Turin, Italy
3. Aylin Căpraru, Robert Ianoș, Radu Lazău, Cornelia Păcurariu, Roxana Racoviceanu, Iron nitrate/fuel mixtures reactivity in the iron oxides synthesis by combustion method, *CATCAR28 & MoldTAC2 Conference (28th Symposium on Thermal Analysis and Calorimetry-Eugen Segal of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy & 2nd Symposium on Thermal Analysis and Calorimetry of Moldova)*, 9-10 mai, Timisoara, Romania, Facile preparation of magnetite nanoparticles by solution combustion synthesis, 12th Edition, June 6-7, 2019, Timișoara, Romania

4. Aylin Căpraru, Robert Ianoș, Radu Lazău, Cornelia Păcurariu, Roxana Racoviceanu, Facile preparation of magnetite nanoparticles by solution combustion synthesis, New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection, 12th Edition, June 6-7, 2019, Timișoara, Romania
5. Aylin Căpraru, Robert Ianoș, Radu Lazău, Cornelia Păcurariu, Roxana Racoviceanu, Influence of the fuel nature and reaction atmosphere on magnetite preparation via combustion synthesis, New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection, 12th Edition, June 6-7, 2019, Timișoara, Romania
6. Aylin Căpraru, Robert Ianoș, Elena-Alina Moacă, Radu Lazău, Adelina Ianculescu, Vasile-Adrian Surdu, Cornelia Păcurariu, Preparation and characterization of stable colloidal suspensions based on magnetic iron oxide nanoparticles obtained by combustion synthesis, 5th Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC5) and 14th Mediterranean Conference on Calorimetry and Thermal Analysis (Medicta2019), August, 27-30, Roma, Italy.
7. Simona Gabriela Muntean, Maria Andreea Nistor, Robert Ianoș, Cornelia Păcurariu, Aylin Căpraru, Efficient separation and removal of dyes from single and binary systems by magnetite/silver/carbon nanoparticles, 10th International Conference on Environmental Engineering and Management ICEEM 10, September, 18-21 Iași, Romania.

➤ **Diploma projects**

1. Nanoparticule dopate cu lantanide cu aplicații biomedicale– coordonator: Roxana Racoviceanu (Babuta) susținută de student Baias Larisa-Sorana.
2. Obținerea unor pulberi nanocristaline de maghemit prin metoda combustiei- coordonator: Robert Ianoș, susținută de student Barta Beatrix

Aquirements

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