



Dr. Maria Emiliană Fortună

Scientific researcher

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Maria Emiliană Fortună is a scientific researcher mainly focusing to the synthesis, characterization and properties of siloxane-containing materials, composite polymeric materials, metal complexes based on functionalized siloxanes with application in catalysis and the biomedical field. She has also devoted to the adsorbent materials for industrial water purification of heavy metals or organic pollutants. Furthermore, she has experience in materials characterization using methods such as: FT-IR spectroscopy, NMR spectroscopy, UV–Vis spectroscopy, X-ray diffraction, thermogravimetric analysis, SEM microscopy and adsorption capacity evaluation of composite materials.

Scientific research

Author and co-author of 21 articles in ISI-ranked journals (10 articles as main author; total impact factor: 29, H-Index in Web of Science: 5), one book, 5 book chapters, 3 articles in proceedings, 45 participations at national and international scientific meetings with oral communications and posters, 1 award for an oral communications (Prague, Czech, 2019), 9 participations as team member in national/international research grant and 1 postdoctoral research project.

Selected Scientific Articles

1. **M.E. Fortună**, M. Ignat, M. Asandulesa, R. Rotaru, L. Pricop, V. Harabagiu, Improved physico-chemical properties of mesoporous carbon by functionalization with aminopropyl-polydimethylsiloxane (AP-PDMS), *J Inorg Organomet Polym Mater*, 28, 2275–2287, 2018.
2. L. Pricop, **M.E. Fortună***, D. Popovici, M. Asandulesa, C. Racles, ·M.F. Zaltariov, N. Marangoci, M. Savin, V. Harabagiu, Nickel complexes of guanidine functionalized trisiloxane, *J Inorg Organomet Polym Mater*, 29 (6) , 2024-2034, 2019 (corresponding author).
3. (Aminophenyl)porphyrins as precursors for the synthesis of porphyrin-modified siloxanes, José Almeida, **M.E. Fortună**, L. Pricop, A. Lobiuc, A. Leite, A.M.N. Silva, R.P. Monteiro, M. R., V. Harabagiu, A.M.G. Silva, *J. Porphyrins Phthalocyanines* 23, 1–12, 2019
4. L. Sacarescu, C. Cojocaru, R. Ardeleanu, **M. Fortună**, G. Sacarescu, M. Simionescu, Dual-emissive polydiphenylsilane nanocomposite: effect of N,N'-bis(4-hydroxysalicylidene)-1,2-phenylenediamine-Zn complex, *Polym. Adv. Technol*, 27(1) 115-124, 2015.
5. **M.E. Fortună**, V. Vasilache, M. Ignat, M. Sillion, X. Patraş, I. Miron, A. Lobiuc, Elemental and macromolecular modifications in *Triticum aestivum* L. plantlets under different cultivation conditions, *PLOS ONE*, 13(8): e0202441, 2018.