



Dr. CS. ZALTARIOV MIRELA-FERNANDA

(UEF-ID: U-1700-039G-2121)

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Occupational field:

Metal-organic frameworks (MOFs), thiosemicarbazone derivatives and their metal complexes, indoloquinoline and indolobenzazepines derivatives with anticancer activity, structure-activity relationship, pharmaceutical formulations based on mucoadhesive polymers, coordination polymers and supramolecular structures, silicone chemistry, obtaining of functionalized siloxane/silane derivatives, spin crossover complexes, metal complexes and ligands with antimicrobial activity, biomaterials for controlled drug delivery systems, crystallization techniques, catalysis (obtaining of catalysts or catalyst precursors for oxidation of alcohols, cyclohexane, alkane hydrocarboxylation, photodecomposition of dyes or drugs in wastewater) etc.

Scientific record:

54 scientific articles published in ISI journals

1 Invited lecture, 1 Keynote lecture, 5 Conferences, 30 oral communications and 46 posters at National and International Conferences.

Project Leader: New scaffolds for extension of structure-activity relationship studies of metal-based anticancer drugs - **PN-III-P1-1.1-PD-2016-1027**, Contract: 5/02.05.2018.

Hirsch Index: 11

SELECTED SCIENTIFIC ARTICLES:

[1]Siloxane-based metal–organic frameworks with remarkable catalytic activity in mild environmental photodegradation of azo dyes, C. Racles, **M. F. Zaltariov***, M. Iacob, M. Sillion, M. Avadanei, A. Bargan, *Appl. Catal. B*, 205, 78-92 (2017) – **I.F.=14.229**

[2]A bis(μ -chlorido)-bridged Cobalt(II) complex with silyl-containing Schiff base as a catalyst precursor in the solvent-free oxidation of cyclohexane, **M.-F. Zaltariov**, V. Vieru, M. Zalibera, M. Cazacu, N.M. R. Martins, L. M. D. R. S. Martins, P. Rapta, G. Novitchi, S. Shova, A. J. L. Pombeiro, V. B. Arion, *Eur. J. Inorg. Chem.* 2017, 4324-4334, (2017) – **I.F.=2.578**

[3]New iminodiacetate–thiosemicarbazone hybrids and their copper(II) complexes are potential Ribonucleotide Reductase R2 inhibitors with high antiproliferative activity, **M. F. Zaltariov**, M. Hammerstad, H. J. Arabshahi, K. Jovanovic, K. W. Richter, M. Cazacu, S. Shova, M. Balan, N. H. Andersen, S. Radulovic, J. Reynisson, K. K. Andersson, V. B. Arion, *Inorg. Chem.* 56(6), 3532-3549 (2017) – **I.F.= 4.850**

[4] Assessment of chemicals released in the marine environment by dielectric elastomers useful as active elements in wave energy harvesters, **M. Zaltariov**, A. Bele, L. Vasiliu, L. Gradinaru, N. Vornicu, C. Racles, M. Cazacu, *J. Haz. Mat.* 341, 390-403, (2018) – **I.F.= 7.650**

[5]Oxime-bridged Mn₆ clusters inserted in one-dimensional coordination polymer **M.-F. Zaltariov**, M. Cazacu, L. Sacarescu, A. Vlad, G. Novitchi, C. Train, S. Shova, V. B. Arion, *Macromolecules* 49(17), 6163-6172 (2016) – **I.F.=5.997**