

CARMEN MÎȚĂ

Research themes:

- **Coordinative chemistry:** chemistry of coordinative compounds with O and N-donor ligands
- **Materials chemistry:** mixed oxides of d and f cations, acrylic ionic exchangers

(b.1963)

Coordinative chemistry: synthesis and characterization of coordination compounds from β -diketonates and amino-acids classes with d and f metal cations; studies of chemical reactivity and biological activity of coordination compounds

Material chemistry: synthesis, structural characterization and studies of the physical and chemical properties of mixed oxide compounds of d and f metal blocks

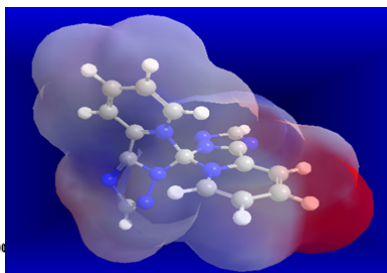
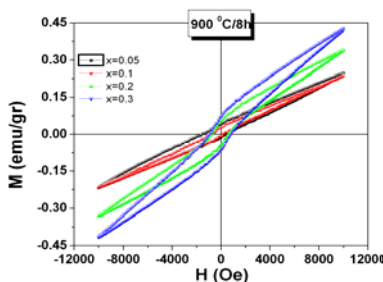
-determination of the adsorption capacity of acrylic ion exchangers and silylcellulose derivatives, determination of the parameters and mechanisms that control their adsorptive properties

Keywords: coordination compound, β -diketonate, amino-acid, reactivity, biological activity, structure, mixed oxide, magnetic properties, magneto-transport, sensor, adsorption, ionic exchange.

Lect., PhD

e-mail: cmita@uaic.ro

Inorganic chemistry



Publications (selection)

D.Bontea, **C.Mita**, D.Humelnicu, Removal of uranyl ions from wastewaters using cellulose and modified cellulose materials, *J.Radioanalytical and Nuclear Chemistry*, 268 (2), 305-311, **2006**.

M.-L. Craus, N. Cornei, M. Lozovan, **C. Mita**, V. Dobrea, Influence of Na and Cr substitutions on electronic phase diagram of $\text{La}_{0.54}\text{Ho}_{0.11}\text{Ca}_{1-x}\text{Na}_x\text{Mn}_{1-y}\text{Cr}_y\text{O}_3$ manganites", *Romanian Reports in Physics*, 62 (4), **2010**.

P. Horlescu, C. S. Stan, D. Sutiman, C. Peptu, **C. Mita**, Synthesis, Structure and Luminescent Properties of New Ce(III), Dy(III), Ho(III) and Tm(III) Complexes with 2-(1H-1,2,4-Triazol-3-yl)pyridine, *Asian Journal of Chemistry*; 27(12), 4461-4466, **2015**.

C. Rosca, V.Sunel, M. Cretu, **C Mita**, N. Apostolescu, D. Mareci, C. Munteanu, I. Rusu. D. Sibiescu, C. Stan, D. Sutiman, Synthesis, characterisation and toxicity analysis of some Mn(II), Co(II), Ni(II) and Cu(II) complexis with N-p-nitrobenzoyl-alfa-phenylalanine, *Asian Journal of Chemistry*; 27(12), 4510-4516, **2015**.

D. Mardare, N. Cornei, **C. Mita**, D. Florea, Al. Stancu, Va. Tiron, A. Manolea, C. Adomnitei, Low temperature TiO_2 based gas sensors for CO_2 , *Ceramics International*, 42, 7353-7359, **2016**.

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PhD

„Al. I. Cuza” University of Iași, 1999