

Conf.dr. Dumitru GÂNJU

Discipline predate :

Substanțe anorganice cu proprietăți speciale

Substanțe tehnice anorganice

Chimia metalelor din blocurile s, p și d

Fundamentele chimiei

Domeniul de cercetare: sinteza și caracterizarea compușilor coordinativi ai metalelor din blocul d, precum și obținerea unor catalizatori de tipul compușilor coordinativi imobilizați pe suporturi anorganice.

Lucrări reprezentative:

1. G. Novitskii, A. Borta, **D. Gynzhu**, S. Shova, I.G. Filippova, Yu.A. Simonov. “Chemical Transformations of Lanthanide Nitrate Complexes: Synthesis and X-Ray Diffraction Analysis”. *Russian Journal of Coordination Chemistry*, 2009, Vol. 35, No. 5, pp. 381–388.
2. A. Gulya *a*, **D. Gynzhu** *b*, N. N. Bairaka, D. Poirier *c*, and V. I. Tsapkova “Synthesis, Structure and Properties of Complex Compounds of Cobalt, Nickel, Copper and Zinc with 2-Formylpyridine Semicarbazone”. *Russian Journal of General Chemistry*, 2009, Vol. 79, No. 7, pp. 1499–1503.
3. V. Ciornea, S. Shova, Gh. Novitchi, D. Ganzhu, O. N. Kazheva A. Gulea, and Yu. A. Simonov. ” Heterometallic Compounds with the Binuclear Complex Anion [Cr₂(OH)(Ac)(Nta)₂]²⁻ : Synthesis and Structure ”. *Russian Journal of Coordination Chemistry*, 2009, Vol. 35, No. 11, pp. 817–823.
4. Yu. M. Chumakova, L. G. Paladi *b*, B. Ya. Antosyaka, Yu. A. Simonova [†], V. I. Tsapkov *b*, G. Bocellic, A. P. Gulea *b*, D. Ganju *d*, and S. A. Palomares_Sanchez *e*. Crystal Structures of Nitrate_(2_Hydroxybenzaldehydo)(2,2'_Bipyridyl)copper and Nitrate_(2_Hydroxy_5_Nitrobenzaldehydo)(2,2'_Bipyridyl)copper *Crystallography Reports*, 2011, Vol. 56, No. 2, pp. 260–264.
5. Mărușă-Elena Ignat ¹, Viorica Dulman ², Dumitru Gânju ², Valentin I. Popa ³
Discolourization of ammonium lignosulfonate by H₂O₂ activated with Co (acac)₂ immobilized

on functionalized silica. Environmental Engineering and Management Journal **10** (2011), 5, 629-635.

6. Cătălin BLEGESCU,* Dumitru GÂNJU and Mircea Nicolae PALAMARU. SUPPORTED Fe, Ni – ACETATE CLUSTER USED IN OXIDIZING PROCESSES OF ORGANIC COLORANTS. *Rev. Roum. Chim.*, **2012**, 57(7-8), 769-773

7. Cătălin BLEGESCU,* Dumitru GÂNJU and Mircea Nicolae PALAMARU. SUPPORTED OXO-TRINUCLEAR Fe-ACETATE CLUSTER WITH CATALYTIC ACTIVITY *Rev. Roum. Chim.*, **2012**, 57(4-5), 415-419

8. Alexandru Cecal **a**, Doina Humelnicu **a,†**, Valeriu Rudic **b**, Liliana Cepoi **b**, Dumitru Ganju **a**, Angela Cojocari **b** Uptake of uranyl ions from uranium ores and sludges by means of *Spirulina platensis*, *Porphyridium cruentum* and *Nostok linckia* alga. *Bioresource Technology* **2012**, 118, 19–23.

9. Doina Humelnicu¹, Catalin Blegescu¹ and Dumitru Ganju¹. Removal of uranium(VI) and thorium(IV) ions from aqueous solutions by functionalized silica: kinetic and thermodynamic studies. *Journal of Radioanalytical and Nuclear Chemistry* 2013.

16.12.2013.