

Publications 2023

1. *New dicyanide-salen based chromium(III) complexes: Synthesis, crystal structures, electrochemical and thermal investigations*, T. Mocanu, C.D. Ene, D.C. Culita, C. Maxim, C. Lete, N. Stanica, C. Romanitan, G. Marinescu, M. Andruh, *J. Molec. Struct.*, **2023**, 1285, 135463.
2. *New Nanostructured Materials Based on Mesoporous Silica Loaded with Ru(II)/Ru(III) Complexes with Anticancer and Antimicrobial Properties*, G. Marinescu, D.C. Culita, T. Mocanu, R.A. Mitran, S. Petrescu, M. S. Stan, M.C. Chifiriuc, M. Popa, *Pharmaceutics*, **2023**, 15, 1458.
3. *Homo- and heterometallic complexes of Zn(II), {Zn(II)Au(I)}, and {Zn(II)Ag(I)} with pentadentate Schiff base ligands as promising anticancer agents*, T. Zhivkova, D.C. Culita, A. Abudalleh, L. Dyakova, T. Mocanu, A.M. Madalan, M. Georgieva, G. Miloshev, A. Hanganu, G. Marinescu, R. Alexandrova, *Dalton Trans.*, **2023**, 52, 2282–12295.
4. *Synthesis of CoFe_2O_4 through Wet Ferritization Method Using an Aqueous Extract of Eucalyptus Leaves*, D. Gingasu, D.C. Culita, J.M. Calderon Moreno, G. Marinescu, C. Bartha, O. Oprea, S. Preda, M. C. Chifiriuc, M. Popa, *Coatings*, **2023**, 13(7), 1250.
5. *Morphological and Optical Properties of Single and Mixed Ni-Co Spinel Aluminates Obtained from Malate Precursors*, D. Gingasu, O. Oprea, G. Marinescu, J. M. Calderon Moreno, D.C. Culita, S. Preda, V.A. Surdu, *Structural, Inorganics*, **2023**, 11, 371.
6. *Cyanido-Bridged Heterobimetallic Molecular Squares: Low-Dimensional Models of Prussian Blue Analogues and Beyond*, M.-G. Alexandru, D. Visinescu, J. Cano, F. Lloret, M. Julve, *Cryst. Growth Des.*, **2023**, 23, 1288-1308.
7. *A Chain of Vertex-Sharing $\{\text{CoIII}_2\text{CoII}_2\}_n$ Squares with Single-Ion Magnet Behavior*, M.-G. Alexandru, D. Visinescu, S. Shova, J. Cano, N. Moliner, F. Lloret, M. Julve, *Magnetochemistry*, **2023**, 9, 130.
8. *Deciphering the role of water and a zinc-doping process in a polyol-based approach for obtaining Zn/Co/Al-based spinels: toward “green” mesoporous inorganic pigments*, M.-G. Alexandru, A.-C. Ianculescu, O. Carp, D. C. Culita, S. Preda, C. D. Ene, B.S. Vasile, V.-A. Surdu, A. Nicoara, F. Neatu, I. Pintilie, D. Visinescu, *Dalton Trans.*, **2023**, 52, 10386-10401.
9. *Novel Derivatives of Nitrobenzofurazan with Chromogenic and Fluorogenic Properties*, A. Bujor, A. Hanganu, R. Baratoiu, E.N. Hristea, M. Tudose, V. Tecuceanu, A.M. Madalan, P. Ionita, *Molecules*, **2023**, 28, 6146.
10. *Green synthesis of aminated hyaluronic acid-based silver nanoparticles on modified titanium dioxide surface: Influence of size and chemical composition on their biological properties*, M.

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11. *Aminocoumarin derivatives grafted on graphene oxide - new antimicrobial agents to combat the resistance of Mycobacterium tuberculosis and ESKAPE pathogens*, G. Ramona Mük, M. Popa, M.C. Chifiriuc, S.N. Voicu, M. Florea, F. Neatu, I. Mihalache, M. Stoian, E.M. Anghel, D.C. Culita, R. A. Mitran, S. Petrescu, M. Tudose, *Applied Surf. Sci.*, **2023**, 639, 158224.

12. *Mo-LDH-GO Hybrid Catalysts for Indigo Carmine Advanced Oxidation*, O.D. Pavel, A.-E. Stamate, R. Zăvoianu, A. Cruceanu, A. Tirsoaga, R. Bîrjega, I. A. Brezeştean, A. Ciorîţă, D.C. Culiţă, A.P. Vieira Soares Dias, *Materials*, **2023**, 16, 3025.

13. *TiO₂ phases ratio's contribution to the photocatalytic activity*, A. Stepanova, T. Tite, I. Ivanenko, M. Enculescu, C. Radu, D.C. Culita, A. Rostas, A.C. Galca, *ACS Omega*, **2023**, 8(44), 41664-41673.

14. *Atomic scale insight into the decomposition of nanocrystalline zinc hydroxynitrate toward ZnO using Mn²⁺ paramagnetic probes*, I.D. Vlaicu, M. Stefan, C. Radu, D.C. Culita, D. Radu, D. Ghica, *Frontiers in Chemistry*, **2023**, 11, 1154219.

15. *Biological Evaluation and Structural Analysis of Some Aminodiphenylamine Derivatives*, A. Bujor, A. Hanganu, V. Tecuceanu, A.M. Madalan, M. Tudose, L. Marutescu, M. Popa, C.M. Chifiriuc, I. Zarafu, P. Ionita, *Antioxidants*, **2023**, 12, 713.