

## Publications 2012 - 2021

### Books:

1. Claudia Maria Simonescu, Daniela C. Culiță, Christu Țârdei, Bogdan Alexandru Sava, Cristian Onose, *Metode și materiale pentru depoluarea apelor contaminate cu ioni ai metalelor grele*, Editura Matrix Rom, **2017** (457 pag), ISBN: 978-606-25-0341-3.
2. P. Budrugeac, O. Carp, O. Mocioiu, D. Oancea, M. Zaharescu, *Analiza Termică Fundamente și Aplicații*, Ed. Academiei Romane, **2016**.

### Book chapters:

1. G. Patrinoiu, D. Visinescu, P. Cucos, C.D. Ene, O. Carp, *Spherical morphologies of metal oxides - a challenge for materials science. A case study: ZnO spherical morphologies*. in *Nanotechnologies and nanomaterials for various applications*, Ed. Academiei Romane, **2018**, pp. 44 - 71.
2. O. Carp, *Materials Obtained by Solid-State Thermal Decomposition of Coordination Compounds and Metal-Organic Coordination Polymers in Reactions and Mechanisms in Thermal Analysis of Advanced Materials*, Ed. Wiley Blackwell, **2015**, pp. 63 - 84
3. I. Mindru, D. Gingasu, D.C. Culita, G. Marinescu, L. Patron, *Design and Synthesis of Magnetic Ferrites*, in *Dekker Encyclopedia of Nanoscience and Nanotechnology (3rd edition)* edited by Sergey Edward Lyshevski, CRC Press/Taylor & Francis, **2014**, ISBN: 9781439891346, pp. 2176 - 2189
4. R. Alexandrova, A. Abudalleh, T. Zhivkova, L. Dyakova, S. Shishkov, M. Alexandrov, G. Marinescu, D.C. Culita, L. Patron, *Cytotoxic Effects of Zn/Ag Complex on Cultured Non-Tumor Cells*, in *Toxicological Problems (first edition)* edited by C. Dishovsky, J. Radenkova – Saeva, Military Publishing Ltd., Sofia, Bulgaria, **2014**, ISBN: 978-954-509-509-2, p. 248 – 253.
5. D. Visinescu, G. Patrinoiu, A. Tirsoaga, O. Carp, *Polysaccharides Route: A New Green Strategy for Metal Oxides Synthesis in Environmental Chemistry for a Sustainable World*, vol. 1 *Nanotechnology and Health Risk*, Ed. Eric Lichtfouse, Jan Schwarzbauer, Didier Robert, Springer, **2012**, pp. 119 - 169.

## Articles:

2021

1. M.G. Alexandru, D. Visinescu, B. Cula, S. Shova, R. Rabelo, N. Moliner, F. Lloret, J. Cano, M. Julve, A rare isostructural series of 3d-4f cyanido-bridged heterometallic squares obtained by assembling  $[\text{Fe}^{\text{III}}\{\text{HB}(\text{pz})_3\}(\text{CN})_3]$ -and  $\text{Ln}^{\text{III}}$  ions: Synthesis, X-ray structure and cryomagnetic study, *Dalton Trans.*, 2021, 50(41), 14640 – 146527. F.I. = 4.390
2. J.R. Jiménez, B. Xu, H. Said, Y. Li Y, J. Von Bardeleben, L.M. Chamoreau, R. Lescouëzec, S. Shova, D. Visinescu, M.G. Alexandru, J. Cano, M. Julve, Field-induced single ion magnet behaviour of discrete and one-dimensional complexes containing [bis(1-methylimidazol-2-yl) ketone]-cobalt(II) building units, *Dalton Trans.*, 2021, 50(44), 16353 – 16363. F.I. = 4.390
3. M.G. Alexandru, D. Visinescu, N. Marino, G. De Munno, F. Lloret, M. Julve, M. Andruh, Heterometallic supramolecular architectures constructed from Cyanido-based  $[\text{Co}^{\text{III}}(\text{AA})(\text{CN})_4]$ -building-blocks (AA = 1,10-phenantroline and 2,2'-bipyridine), *Revue Roumaine de Chimie*, 2021, 66(3), 243 – 254. F.I. = 0.25
4. C.A. Spinu, C. Pichon, G. Ionita, T. Mocanu, S. Calancea, M. Raduca, J.P Sutter, M. Hillebrand, M. Andruh, Synthesis, crystal structure, magnetic, spectroscopic, and theoretical investigations of two new nitronyl-nitroxide complexes, *Journal of Coordination Chemistry*, 2021, 74(1-3), 279 – 293. F.I. = 1.751
5. C.M. Simonescu, A. Tătăruș, D.C. Culiță, N. Stănică, B. Butoi, A. Kuncser, Facile synthesis of cobalt ferrite ( $\text{CoFe}_2\text{O}_4$ ) nanoparticles in the presence of sodium bis (2-ethyl-hexyl) sulfosuccinate and their application in dyes removal from single and binary aqueous solutions, *Nanomaterials* 2021, 11, 3128. FI = 5.076
6. D. Gingasu, I. Mindru, D.C. Culita, J. Calderon Moreno, C. Bartha, S. Greculeasa, N. Iacob, S. Preda, O. Oprea, Structural, morphological and magnetic investigations on cobalt ferrite nanoparticles obtained through green synthesis routes, *Applied Physics A* 2021, 127, 892. F.I. = 2.584
7. A.C. Kuncser, I.D. Vlaicu, O.D. Pavel, R. Zavoianu, M. Badea, D. Radu, D.C. Culita, A. M. Rostas, R. Olar, Soft synthesis and characterization of goethite-based nanocomposites as promising cyclooctene oxidation catalysts, *RSC Advances* 2021, 11, 27589-27602. FI = 3.361
8. D. Gingașu, I. Mîndru, D.C. Culiță, L. Predoană, G. Petcu, M. Ciobanu, S. Preda, J. Pandele-Cușu, S. Petrescu, MgO obtained by chemical and green synthesis methods and applied in photocatalytic degradation of methyl orange, *Revue Roumaine de Chimie* 2021, 66(5), 463-473. FI = 0.278
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17. T. Mocanu, N. Plyuta, T. Cauchy, M. Andruh, N. Avarvari, Dimensionality Control in Crystalline Zinc(II) and Silver(I) Complexes with Ditopic Benzothiadiazole Dipyridine Ligands, *Chemistry*, 2021, 3, 269-287.
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