



PERSONAL INFORMATION

Maria Milanova

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Sex: Female Nationality Bulgaria

 Professor, University of Sofia "St. Kliment Ohridski", Faculty of Chemistry and Pharmacy,
 Department of Inorganic Chemistry

 PERSONAL SKILLS AND
 COMPETENCES

Technical skills and competences

 Inorganic Chemistry, Material Science, Chemistry of Rare Earths, Photocatalysis,
 Environmental Problems

 Organisational skills and
 competences

Research project management, Teaching, Lecturing, Mentoring

PUBLICATIONS

1. N. T. Temerbulatova, M. P. Tsvetkov, D. K. Karaivanov, A. I. Velichkov, D. V. Filosofov, **M. M. Milanova**. Rare earths doped ferrites, characterized by time differential $\gamma\gamma$ perturbed angle correlations method, *J Solid State Chemistry*, 277 (2019) 281-289, <https://doi.org/10.1016/j.jssc.2019.05.029>
2. M. Tsvetkov, **M. Milanova**, I. Ivanova, D. Neov, Z. Cherkezova-Zheleva, J. Zaharieva, M. Abrashev, Phase composition and crystal structure determination of cobalt ferrite, modified with Ce³⁺, Nd³⁺ and Dy³⁺ ions by X-ray and neutron diffraction, *J Mol Struct*, 1179 (2018) 233 – 241, <https://doi.org/10.1016/j.molstruc.2018.07.083>
3. G. M. Marinov, A. P. Marinova, **M. M. Milanova**, S. Happel, D. V. Karaivanov, D. V. Filosofov, Sorption of Rare-Earth Elements and Ac on DN resin with HCl, HClO₄, CH₃COOH, CCl₃COOH, *Solvent Extraction and Ion Exchange*, 2018, <https://doi.org/10.1080/07366299.2018.1525878>
4. G. Marinov, A. Marinova, **M. Milanova**, S. Happel, N. A. Lebedev, A. Drokhllyansky, N. Mirzayev, D. V. Karaivanov, D. V. Filosofov, Sorption of rare-earth elements and Ac on UTEVA resin in different acid solutions, *Solvent Extraction and Ion Exchange*, 35 (2017) 280-291 <http://dx.doi.org/10.1080/07366299.2017.1336404>
5. G.M. Marinov, A. P. Marinova, D. V. Medvedev, J. A. Dadakhanov, **Maria M. Milanova**, S. Happel, V. I. Radchenko, D. V. Filosofov, Determination of distribution coefficients (K_d) of various radionuclides on UTEVA resin, *Radiochimica Acta*, 104 (10) (2016) 735-742. DOI: <https://doi.org/10.1515/ract-2016-2582>
6. M. Tsvetkov, **M. Milanova**, L. C. J. Pereira, J. C. Waerenborgh, Z. Cherkezova-Zheleva, J. Zaharieva, I. Mitov. Magnetic properties of binary and ternary mixed metal oxides NiFe₂O₄ and Zn_{0.5}Ni_{0.5}Fe₂O₄, doped with rare earths by sol-gel synthesis. *Chemical Papers* 70 (12) (2016) 1600–1610. [doi: 10.1515/chempap-2016-](https://doi.org/10.1515/chempap-2016-)

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7. D. Elenkova, Rosen Monov, I. Manolov, A. Tadjer, **M. Milanova**. Synthesis and characterization of terbium (III) complexes with the biscoumarin derivative 3,3'-[(4-Hydroxyphenyl)methyl]bis-(4-hydroxy-2H-chromen-2-one), *J. Mol Struct*, 1106 (2016) 491-500, [doi:10.1016/j.molstruc.2015.10.026](https://doi.org/10.1016/j.molstruc.2015.10.026)
8. B. Ivanov, I. Spassova, **M. Milanova**, G. Tyuliev, M. Khristova, Effect of the addition of rare earths on the activity of alumina supported copper cobaltite in CO oxidation, CH₄ oxidation and NO decomposition, *J Rare Earths* 33 (4) (2015) 382 – 390. [doi: 10.1016/S1002-0721\(14\)60430-0](https://doi.org/10.1016/S1002-0721(14)60430-0)