

List of publications

I. ISI articles:

1. A. Popa, **M. Stan**, D. Toloman, S.A. Porav, R. Stefan, D.C. Vodnar, T.D. Silipas, 2018. The influence of Cu²⁺ doping level on the properties of ZnO loaded with Ag nanoparticles, *Rom. J. Phys.* 63, 609.
2. I. Lung, **M. Stan**, O. Opris, M.L. Soran, M. Senila, M. Stefan, 2018. Removal of lead(II), cadmium(II), and arsenic(III) from aqueous solution using magnetite nanoparticles prepared by green synthesis with Box-Behnken design, *Anal. Lett.* 51(16), 1-14.
3. I. Lung, M.L. Soran, **M. Stan**, O. Opris, F. Copaciu, M. Stefan, M.D. Lazar, C. Leostean, A.S. Porav, 2018. Green synthesized Fe₃O₄ nanoparticles for Lanasyne Red azo dye removal from aqueous solutions, *Rev. Roum. Chim.* 63(10), 965-970.
4. I. Lung, M.L. Soran, O. Opris, **M. Stan**, C. Bele, 2018. Microwave irradiation effect on polyphenol content and antioxidant activity of basil, *Studia UBB Chemia*, LXIII, 3, 87-94.
5. **M. Stan**, I. Lung, M.L. Soran, C. Leostean, A. Popa, M. Stefan, M.D. Lazar, O. Opris, T.D. Silipas, A.S. Porav, 2017. Removal of antibiotics from aqueous solutions by green synthesized magnetite nanoparticles with selected agro-waste extracts, *Process Saf. Environ. Prot.* 107: 357-372.
6. D. Toloman, A. Popa, **M. Stan**, C. Socaci, A.R. Biris, G. Katona, F. Tudorache, I. Petrila, F. Iacomi, 2017. Reduced graphene decorated with Fe doped SnO₂ nanoparticles for humidity sensor, *Appl. Surf. Sci.* 402, 410-417.
7. C. Vasile, M. Rapa, M. Stefan, **M. Stan**, S. Macavei, R.N. Darie-Nita, L. Barbu-Tudoran, D.C. Vodnar, E.E. Popa, R. Stefan, G. Borodi, M. Brebu, 2017. New PLA/ZnO:Cu/Ag bionanocomposites for food packaging, *Express Polym. Lett.* 11, 531-544.
8. M.L. Soran, O. Opris, I. Lung, I. Kacso, A.S. Porav, **M. Stan**, 2017. The efficiency of the multi-walled carbon nanotubes used for antibiotics removal from wastewaters generated by animal farms, *Environ. Sci. Pollut. Res.* 24(19), 16396-16406.
9. **M. Stan**, A. Popa, D. Toloman, T.D. Silipas, D.C. Vodnar, 2016. Antibacterial and antioxidant activities of ZnO nanoparticles synthesized using extracts of *Allium sativum*, *Rosmarinus officinalis* and *Ocimum basilicum*, *Acta Metall. Sin. (Engl. Lett.)* 29, 228-236.
10. A. Dehelean, D.A. Magdas, R. Puscas, I. Lung, **M. Stan**, 2016. Quality assessment of some commercial Romanian juices, *Rom. Rep. Phys.* 68(2), 746-759.
11. M.L. Soran, **M. Stan**, I. Lung, M.R.C. Trusca, 2016. Microwave field effect on polyphenolic compounds from aromatic plants, *J. Sustain. Dev. Energy Water Environ. Syst.* 4(1), 48-55.
12. **M. Stan**, A. Popa, D. Toloman, A. Dehelean, I. Lung, G. Katona, 2015. Enhanced photocatalytic degradation properties of zinc oxide nanoparticles synthesized by using plant extracts, *Mater. Sci. Semicond. Process.* 39, 23-29.
13. **M. Stan**, A. Popa, D. Toloman, T.D. Silipas, D.C. Vodnar, G. Katona, 2015. Enhanced antibacterial activity of zinc oxide nanoparticles synthesized using *Petroselinum crispum* extracts, *AIP Conf. Proc.* 1700: 060004.
14. I. Lung, **M. Stan**, O. Opris, M.L. Soran, 2015. Determination of myristicin and linalool in plants exposed to microwave radiation by high-performance liquid chromatography, *Anal. Lett.* 48, 567-574.

15. A. Popa, D. Toloman, **M. Stan**, T.D. Silipas, A.R. Biris, 2015. Optical and electron paramagnetic resonance studies of Cr doped Ga₂O₃ nanoparticles, *AIP Conf. Proc.* 1700, 060006.
16. D. Toloman, A. Popa, **M. Stan**, T.D. Silipas, A.R. Biris, 2015. Identification of different iron sites in β-Ga₂O₃ nanoparticles by spectroscopic methods, *AIP Conf. Proc.* 1700, 060005.
17. **M. Stan**, M.L. Soran, C. Marutoiu, 2014. Extraction and HPLC determination of the ascorbic acid content of three indigenous spice plants, *J. Anal. Chem.* 69, 998-1002.
18. **M. Stan**, I. Lung, O. Opris, M.L. Soran, 2014. High-performance thin-layer chromatographic quantification of some essential oils from *Anethum graveolens* extracts, *J. Planar Chromatogr. – Mod TLC* 27, 33-37.
19. **M. Stan**, O. Opris, I. Lung, M.L. Soran, 2014. High-performance thin-layer chromatographic quantification of myristicin and linalool from leaf extracts of microwave-irradiated parsley, dill and celery, *J. Planar Chromatogr. – Mod TLC* 27(2), 97-101.
20. **M. Stan**, M.L. Soran, C. Varodi, I. Lung, 2014. Influence of microwave field on the ascorbic acid content in leaves of some common aromatic plants in Romania, *Studia UBB Chemia*, LIX(1), 125-133.
21. M.L. Soran, **M. Stan**, Ü. Niinemets, L. Copolovici, 2014. Influence of microwave frequency electromagnetic radiation on terpene emission and content in aromatic plants, *J. Plant Physiol.* 171, 1436-1443.
22. D. Toloman, A. Popa, O. Raita, **M. Stan**, R. Suci, M.O. Miclaus, A.R. Biris, 2014. Luminescent properties of vanadium-doped SnO₂ nanoparticles, *Optical Materials* 37, 223-228.
23. A. Popa, D. Toloman, O. Raita, **M. Stan**, O. Pana, T.D. Silipas, L.M. Giurgiu, 2014. Ferromagnetic behaviour of vanadium doped SnO₂ nanoparticles annealed at different temperatures, *J. Alloy. Compd.* 591, 201-206.
24. A. Popa, D. Toloman, O. Raita, **M. Stan**, B.S. Vasile, C. Leostean, L.M. Giurgiu, 2013. Spin dynamics evidenced by EPR in Sn_{1-x}Mn_xO₂ nanoparticles annealed at different temperatures. *J. Alloy. Compd.* 551, 300-305.
25. **M. Stan**, M.L. Soran, C. Varodi, I. Lung, L. Copolovici, C. Marutoiu, 2013. Extraction and GC determination of volatile aroma compounds from extracts of three plant species of the Apiaceae family, *AIP Conf. Proc.* 1565, 75-78.
26. O. Raita, A. Popa, D. Toloman, **M. Stan**, L.M. Giurgiu, 2013. Magnetic resonance investigation of Zn_{1-x}Fe_xO properties influenced by annealing atmosphere, *AIP Conf. Proc.* 1565, 255.
27. D. Toloman, A. Popa, O. Raita, **M. Stan**, T.D. Silipas, L.M. Giurgiu, 2013. Properties of Mn-doped ZnO particles annealed in different atmospheres, *AIP Conf. Proc.* 1565, 269.
28. A. Popa, D. Toloman, O. Raita, **M. Stan**, A.R. Biris, L.M. Giurgiu, 2013. The influence of annealing atmosphere on the properties of Zn_{1-x}Co_xO powders as seen by EPR spectroscopy, *AIP Conf. Proc.* 1565, 246.
29. O. Raita, A. Popa, **M. Stan**, R.C. Suci, A. Biris, L.M. Giurgiu, 2012. Effect of Fe concentration in ZnO powders on ferromagnetic resonance spectra, *Appl. Magn. Reson.* 42, 499-509.
30. A. Popa, O. Raita, **M. Stan**, O. Pana, G. Borodi, L.M. Giurgiu, 2012. Electron paramagnetic resonance of Mn-doped Sn_{1-x}Mn_xO₂ powders, *Appl. Magn. Reson.* 42, 453-462.

31. A. Dehelean, S. Rada, V. Danciu, E. Culea, **M. Stan**, A. Popa, O. Raita, 2012. Spectroscopic studies of copper ions doped in tellurate glasses obtained by sol-gel method, *AIP Conf Proc.* 1425, 65-68.
32. **M. Stan**, M.L. Soran, C. Varodi, I. Lung, 2012. Extraction and identification of flavonoids from parsley extracts by HPLC analysis, *AIP Conf. Proc.* 1425, 50-52.
33. S. Rada, A. Dehelean, **M. Stan**, R. Chelcea, E. Culea, 2011. Structural studies on iron-tellurite glasses prepared by sol-gel method, *J. Alloy. Compd.* 509, 147-151.
34. A. Popa, O. Raita, D. Toloman, **M. Stan**, G. Borodi, Al. Darabont, L.M. Giurgiu, 2011. The influence of the annealing temperature on the properties of $\text{Sn}_{1-x}\text{Fe}_x\text{O}_2$ powders evidenced by EMR spectroscopy, *Appl. Magn. Reson.* 40, 261-266.
35. O. Raita, A. Popa, D. Toloman, **M. Stan**, A. Darabont, L. Giurgiu, 2011. Co^{2+} ions in ZnO powders as seen by magnetic resonance, *Appl. Magn. Reson.* 40, 245-250.

II. Non-ISI articles:

1. I. Lung, M.L. Soran, **M. Stan**, C. Bele, C. Matea, 2013. Evaluation of total chlorophyll content in microwave-irradiated *Ocimum basilicum* L., *Scientific Bulletin of ESCORENA* 8, 31-35.
2. I. Lung, M.L. Soran, **M. Stan**, D. Podar, 2013. Quantification of total flavonoids and phenolic acids from microwave irradiated and non-irradiated plants, *Advances in Research*, 1(1), 1-10.
3. D. Toloman, A. Popa, O. Raita, **M. Stan**, A. Darabont, L.M. Giurgiu, I. Ardelean, 2012. Structural and EPR investigations of Mn-doped ZnO fine ceramics, *Studia UBB Physica*, Vol. 57(LVII), 1, 101-106.
4. O. Raita, D. Toloman, A. Popa, **M. Stan**, Al. Darabont, L.M. Giurgiu, 2009. EPR investigations of $\text{Sn}_{1-x}\text{Fe}_x\text{O}_2$ nanopowders, *Journal of Physics: Conference Series* 182, 012076.