List of publications

A. WoS articles:

1. Ameen Uddin Ammar, Adriana Popa, Dana Toloman, Sergiu Macavei, Alexandra Ciorita, Amelia-Elena Bocirnea, **Manuela Stan**, Emre Erdem, Arpad Mihai Rostas, 2024. Nitrogen-doped WO_3 nanoparticles as electrode materials in all-in-one supercapacitor devices, *ACS Appl. Eng. Mater.* 2, 126-135.
2. Ameen Uddin Ammar, **Manuela Stan**, Adriana Popa, Dana Toloman, Sergiu Macavei, Cristian Leostean, Alexandra Ciorita, Emre Erdem, Arpad Mihai Rostas, 2023. All-in-one supercapacitor devices based on nanosized Mn^{4+}-doped WO_3, *J. Energy Storage* 72, 108599.
3. **Manuela Stan**, Dana Toloman, Adriana Popa, Monica Dan, Ramona Crina Suciu, Sergiu Macavei, Septimiu Cassian Tripon, Kittichai Chaiseeda, Ovidiu Pana, 2022. Facile synthesis of MWCNT-WO_3 composites with enhanced photocatalytic degradation of methylene blue dye, *Synth. Met.* 288, 117117.
4. Adriana Popa, Dana Toloman, Maria Stefan, Anca Petran, Sergiu Macavei, Sorin Ulinici, **Manuela Stan**, Lucian Barbu-Tudoran, Mihaela Vlassa, Ovidiu Pana, 2021. Hybrid PVDF-P(L-DOPA)-ZnO membranes for dyes and antibiotics removal through simultaneous action of adsorption and photocatalysis processes, *J. Environ. Chem. Eng.* 9, 106812.
5. D. Toloman, A. Popa, **M. Stan**, M. Stefan, G. Vlad, S. Ulinici, G. Baiasan, T.D. Silipas, S. Macavei, C. Leostean, S. Pruneanu, F. Pogacean, R.C. Suciu, L. Barbu-Tudoran, O. Pana, 2021. Visible-light-driven photocatalytic degradation of different organic pollutants using Cu doped ZnO-MWCNT nanocomposites, *J. Alloys Compd.* 866, 159010.
6. A. Popa, O. Pana, M. Stefan, D. Toloman, **M. Stan**, C. Leostean, R.C. Suciu, G. Vlad, S. Ulinici, G. Baisan, S. Macavei, L. Barbu-Tudoran, 2021. Interplay between ferromagnetism and photocatalytic activity generated by Fe^{3+} ions in iron doped ZnO nanoparticles grown on MWCNTs, *Phys. E: Low Dimens. Syst. Nanostructures* 129, 114581.
7. A. Popa, D. Toloman, **M. Stan**, M. Stefan, T. Radu, G. Vlad, S. Ulinici, G. Baiasan, S. Macavei, L. Barbu-Tudoran, O. Pana, 2021. Tailoring the RhB removal rate by modifying the PVDF membrane surface through ZnO particles deposition, *J. Inorg. Organomet. Polym. Mater.* 31, 1642-1652.
8. A. Stegarescu, I. Lung, C. Leostean, I. Kacso, O. Opris, M.D. Lazar, L. Copolovici, S. Gutoiu, **M. Stan**, A. Popa, O. Pana, A.S. Porav, M.L. Soran, 2020. Green synthesis, characterization and test of MnO_2 nanoparticles as catalyst in biofuel production from grape residues and seeds oil, *Waste Biomass Valor.* 11, 5003-5013.
9. **M. Stan**, I. Lung, M.L. Soran, O. Opris, C. Leostean, A. Popa, F. Copaciu , M.D. Lazar, I. Kacso, T.D. Silipas, A.S. Porav, 2019. Starch-coated green synthesized magnetite nanoparticles for removal of textile dye Optilan Blue from aqueous media, *J. Taiwan Inst. Chem.* Eng.100, 65-73.
10. **M. Stan**, I. Lung, M.L. Soran, O. Opris, C. Leostean, A. Popa, F. Copaciu , M.D. Lazar, I. Kacso, T.D. Silipas, A.S. Porav, 2019. Data on the removal of Optilan Blue dye from aqueous media using starch-coated green synthesized magnetite nanoparticles, *Data in brief* 25, 104165.
11. A. Dehelean, A. Popa, S. Rada, R.C. Suciu, **M. Stan**, E. Culea, 2019. Spectroscopic investigation of new manganese tellurite glasses synthesized by sol-gel method, *J. Alloys Compd.* 801, 181-187.

12. A. Popa, **M. Stan**, D. Toloman, S.A. Porav, R. Stefan, D.C. Vodnar, T.D. Silipas, 2018. The influence of Cu^{2+} doping level on the properties of ZnO loaded with Ag nanoparticles, *Rom. J. Phys.* 63, 609.
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14. I. Lung, M.L. Soran, **M. Stan**, O. Opris, F. Copaciu, M. Stefan, M.D. Lazar, C. Leostean, A.S. Porav, 2018. Green synthesized Fe_3O_4 nanoparticles for Lanasyn Red azo dye removal from aqueous solutions, *Rev. Roum. Chim.* 63(10), 965-970.
15. 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.
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17. 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 SnO_2 nanoparticles for humidity sensor, *Appl. Surf. Sci.* 402, 410-417.
18. 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.
19. 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.
20. **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.
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22. 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.
23. **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.
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25. 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.
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28. **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.
29. **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.
30. **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.
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33. D. Toloman, A. Popa, O. Raita, **M. Stan**, R. Suciu, M.O. Miclaus, A.R. Biris, 2014. Luminescent properties of vanadium-doped SnO_2 nanoparticles, *Optical Materials* 37, 223-228.
34. A. Popa, D. Toloman, O. Raita, **M. Stan**, O. Pana, T.D. Silipas, L.M. Giurgiu, 2014. Ferromagnetic behaviour of vanadium doped SnO_2 nanoparticles annealed at different temperatures, *J. Alloy. Compd.* 591, 201-206.
35. A. Popa, D. Toloman, O. Raita, **M. Stan**, B.S. Vasile, C. Leostean, L.M. Giurgiu, 2013. Spin dynamics evidenced by EPR in $Sn_{1-x}Mn_xO_2$ nanoparticles annealed at different temperatures. *J. Alloy. Compd.* 551, 300-305.
36. **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.
37. 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.
38. 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.
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41. A. Popa, O. Raita, **M. Stan**, O. Pana, G. Borodi, L.M. Giurgiu, 2012. Electron paramagnetic resonance of Mn-doped $Sn_{1-x}Mn_xO_2$ powders, *Appl. Magn. Reson.* 42, 453-462.
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43. **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.
44. 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.

45. 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 $Sn_{1-x}Fe_xO_2$ powders evidenced by EMR spectroscopy, *Appl. Magn. Reson*. 40, 261-266.
46. 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.

B. Other articles:

1. Ado Ibrahim Yargaya, Vannapa Luckanawat, Kittichai Chaiseeda, Piyarat Trikittiwong, **Manuela Stan**, 2027. Sustainable valorization of glycerol to solketal using a magnetically recoverable $V_2O_5/SiO_2/Fe_3O_4$ catalyst, *Applied Science and Engineering Progress* 20(1), 8150.
2. Piyarat Trikittiwong, Danainat Surakiet, Nutthaya Aksornkovit, Kittichai Chaiseeda, Ritbey Ruga, **Manuela Stan**, 2023. Efficient oxidation of benzyl alcohol to benzaldehyde with hydrogen peroxide mediated by palladium chloride impregnated on aluminium oxide-pillared clay, *Applied Science and Engineering Progress* 16(2), 6171.
3. 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.
4. 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.
5. 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.
6. O. Raita, D. Toloman, A. Popa, **M. Stan**, Al. Darabont, L.M. Giurgiu, 2009. EPR investigations of $Sn_{1-x}Fe_xO_2$ nanopowders, *Journal of Physics: Conference Series* 182, 012076.