

Laboratory of surface chemistry and catalysis

Papers in ISI ranked journals

2021

1. **G. Dobrescu***, **F. Papa***, **R. State**, M. Raciulete, D. Berger, **I. Balint**, N. I. Ionescu, Modified Catalysts and Their Fractal Properties, *Catalysts*, 11, 1518, 2021, IF=4.146
2. D.N. Son*, **V. Chihaiia**, P.T. Thi, Mechanism of Oxygen Reduction Reaction on Monolayer WTe₂ with and without S Dopant at Low Coverage, *e-Journal of Surface Science and Nanotechnology* 19, 119–124 (2021), IF= 0.540
3. M. I. G. Popa*, A. Cursaru*, B. Serban, B. Cretu, A. A. Muntean, **V. T. Popa**, M. C. Chifiriuc, C. Cirstoiu, Microcalorimetry-Versatile Method of Describing Bacterial Growth, *Applied Sciences*, 11(20) 9740 (2021), IF=2.679
4. A. Gavrilă, I.C. Radu, **H. Stroescu**, A. Zaharia, E.B. Stoica, A.L. Ciurlica, T.V. Iordache*, A. Sarbu*, Role of Functional Monomers upon the Properties of Bisphenol A Molecularly Imprinted Silica Films, *Applied Sciences* 11, 2956 (2021), IF=2.679
5. C.I. Gifu, B. Trica, C.M. Ninciuleanu, C.I. Mihaescu, C. Petcu*, M.C. Lite, A. Popescu, **M. Anastasescu**, S.N. Voicu, M.A. Tanase, L.O. Cinteza*, Rapid microwave-assisted synthesis of organo-modified nanostructured silica coatings with tunable water-repellence properties, *Coatings* 11, 1319 (2021). IF=2.881
6. R. Somoghi, V. Purcar*, E. Alexandrescu, I.C. Gifu, C.M. Ninciuleanu, C.M. Cotrut, F. Oancea, **H. Stroescu**, Synthesis of Zinc Oxide Nanomaterials via Sol-Gel Process with Anti-Corrosive Effect for Cu, Al and Zn Metallic Substrates, *Coatings* 11, 444 (2021), IF=2.881
7. **O.K. Le**, **V. Chihaiia**, V.V. Ond, D.N. Son*, N-type and p-type molecular doping on monolayer MoS₂, *RSC Advances* 11, 8033-8041 (2021), IF=3.361
8. T.T. Pham, T.N. Pham†, **V. Chihaiia**, Q. An. Vu, T.T. Trinh, T.T. Pham, L.V. Thang*, D.N. Son*, How do the doping concentrations of N and B in graphene modify the water adsorption?, *RSC Advances* 11, 19560-19568 (2021), IF=3.361

9. A. Stanoiu, A.C. Kuncser, D. Ghica, O.G. Florea, **S. Somacescu**, C.E. Simion*, Sensing Properties of NiO Loaded SnO₂ Nanoparticles-Specific Selectivity to H₂S, *Chemosensors* 9(6), 125 (2021), IF=3.398
10. C.E Simion, C. Ghica, C.Mihalcea, D. Ghica, I. Mercioniu, **S.Somacescu**, O.G. Florea,A. Stanoiu*, Insights about CO Gas-Sensing Mechanism with NiO-Based Gas Sensors. The Influence of Humidity,*Chemosensors* 9(9), 244 (2021), IF=3.398
11. R. Bucuresteanu, L.M Ditu*, M. Ionita, I. Calinescu, V. Raditoiu, B. Cojocaru, L.O. Cinteza, C. Curutiu, A.M. Holban, M. Enachescu, L.B. Enache, G. Mustatea, **V. Chihaiia**, A. Nicolaev, E.L. Borcan, G. Mihaescu, Preliminary Study on Light-Activated Antimicrobial Agents as Photocatalytic Method for Protection of Surfaces with Increased Risk of Infections, *Materials* 14, 5307 (2021), IF=3.623
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13. S. Neatu, F. Neatu, M.I. Chirica, I. Borbáth, E. Talas, A. Tompos, **S. Somacescu**, **P. Osiceanu**, A.M. Folgado, A.M. Chaparro, M. Florea*, Recent progress on electrocatalysts and electrodes for portable fuel cells, *Journal of Materials Chemistry A* 9, 17065-17128 (2021), IF=12.732
14. D. Gingasu*, I. Mindru, D. C. Culita, L. Predoana, **G. Petcu**, **M. Ciobanu**, S. Preda, J. Pandele-Cusu, S. Petrescu, MgO obtained by chemical and green synthesis methods and applied in photocatalytic degradation of methyl orange, *Rev. Roum. Chim.*, 66(5), 463-473 (2021), IF=0.278
15. D. Negoescu, D. Culita, I. Atkinson, V. Bratan, S. Petrescu, **V. Parvulescu***,Ti-SBA-15 mesoporous photocatalysts modified with lanthanides for degradation of Brilliant Blue FCF dye in aqueous solution, *Rev. Roum. Chim.* 66(3), 287-293 (2021), IF=0.278
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