Petrisor Samoila

List of Publications by Year in Descending Order

58 papers	931 citations	18 h-index	29 g-index
60 ext. papers	1,136 ext. citations	4.7 avg, IF	4.46 L-index

#	Paper	IF	Citations
58	Innovative nanostructured magnetite/wool/polysiloxane composite as magnetic adsorbent for oil spill removal. *Comptes Rendus Chimie*, **2022**, 25, 1-16	2.7	0
57	Influence of fuel nature on sol–gel microwave-ignited combustion synthesis of nanosized cobalt and nickel spinel ferrites. *Comptes Rendus Chimie*, **2022**, 25, 1-14	2.7	
56	Tuning of Sm3+ and Er3+-doped TiO2 nanofibers for enhancement of the photocatalytic performance: Optimization of the photodegradation conditions. *Journal of Environmental Management*, **2022**, 316, 115317	7.9	0
55	Ultrasound assisted synthesis of heterostructured TiO2/ZnFe2O4 and TiO2/ZnFe1.98La0.02O4 systems as tunable photocatalysts for efficient organic pollutants removal. *Ceramics International*, **2021**, 48, 4829-4829	5.1	3
54	New La3+ doped TiO2 nanofibers for photocatalytic degradation of organic pollutants: Effects of thermal treatment and doping loadings. *Ceramics International*, **2021**,	5.1	3
53	Cu/TiO2 composite nanofibers with improved photocatalytic performance under UV and UV-visible light irradiation. *Surfaces and Interfaces*, **2021**, 28, 101644	4.1	2
52	Synthesis of benzaldehyde-grafted polysilane: A highly stable and selective "turn-on" fluorescent sensor for cytosine. *Journal of Molecular Liquids*, **2021**, 326, 115300	6	0
51	Investigation of a biosystem based on Arthrospira platensis for air revitalisation in spacecrafts: Performance evaluation through response surface methodology. *Chemosphere*, **2021**, 264, 128465	8.4	2
50	Boosting catalytic wet-peroxide-oxidation performances of cobalt ferrite by doping with lanthanides for organic pollutants degradation. *Journal of Environmental Chemical Engineering*, **2021**, 9, 104961	6.8	8
49	Bio-based ionically cross-linked alginate composites for PEMFC potential applications. *Reactive and Functional Polymers*, **2021**, 165, 104967	4.6	0
48	Novel electrospun membranes based on PVDF fibers embedding lanthanide doped ZnO for adsorption and photocatalytic degradation of dye organic pollutants. *Materials Research Bulletin*, **2021**, 141, 111376	5.1	11
47	Artificial neural network and molecular modeling for assessing the adsorption performance of a hybrid alginate-based magsorbent. *Journal of Molecular Liquids*, **2021**, 337, 116406	6	4
46	Nano-assembly and optical properties of difluoroboron dibenzoylmethane-polysilane. *Polymer*, **2021**, 232, 124188	3.9	0
45	Development of Porous Titania Structure with Improved Photocatalytic Activity: Response Surface Modeling and Multi-Objective Optimization. *Nanomaterials*, **2020**, 10,	5.4	6
44	Chitosan-Sulfated Titania Composite Membranes with Potential Applications in Fuel Cell: Influence of Cross-Linker Nature. *Polymers*, **2020**, 12,	4.5	7
43	Photocatalytic and antimicrobial activity of electrospun ZnO:Ag nanostructures. *Journal of Alloys and Compounds*, **2020**, 834, 155144	5.7	20
42	Porous polymer/inorganic composite matrices as efficient desiccants for air dehumidification. *Applied Surface Science*, **2019**, 487, 1189-1197	6.7	9

41	Novel rare earth (RE-La, Er, Sm) metal doped ZnO photocatalysts for degradation of Congo-Red dye: Synthesis, characterization and kinetic studies. *Journal of Environmental Management*, **2019**, 239, 225-234	7.9	63
40	VISCOSE-MAGHEMITE/GOETHITE POLYMERIC COMPOSITE AS SORBENT FOR OIL SPILL CLEANUP. *Environmental Engineering and Management Journal*, **2019**, 18, 1193-1200	0.6	
39	Sol–gel synthesis, texture and catalytic activity of titania–silica sorbents. *SN Applied Sciences*, **2019**, 1, 1	1.8	2
38	Chitin and Chitosan for Water Purification **2019**, 429-460		6
37	Chitosan-based magnetic adsorbent for removal of water-soluble anionic dye: Artificial neural network modeling and molecular docking insights. *International Journal of Biological Macromolecules*, **2019**, 123, 587-599	7.9	19
36	Preparation of La doped ZnO ceramic nanostructures by electrospinning–calcination method: Effect of La3+ doping on optical and photocatalytic properties. *Applied Surface Science*, **2019**, 476, 16-27	6.7	69
35	Optimized formulation of NiFe 2 O 4 @Ca-alginate composite as a selective and magnetic adsorbent for cationic dyes: Experimental and modeling study. *Reactive and Functional Polymers*, **2018**, 125, 57-69	4.6	12
34	Novel fibrous composites based on electrospun PSF and PVDF ultrathin fibers reinforced with inorganic nanoparticles: Evaluation as oil spill sorbents. *Polymers for Advanced Technologies*, **2018**, 29, 1435-1446	3.2	20
33	Relationship between the component synthesis order of zinc ferrite–titania nanocomposites and their performances as visible light-driven photocatalysts for relevant organic pollutant degradation. *Comptes Rendus Chimie*, **2018**, 21, 263-269	2.7	6
32	Plasma generation in liquid as a new efficient synthesis approach of titania–zinc ferrite nano(photo)catalyst. *Comptes Rendus Chimie*, **2018**, 21, 310-317	2.7	3
31	Ferromagnetic iron oxide–cellulose nanocomposites prepared by ultrasonication. *Polymer Chemistry*, **2018**, 9, 860-868	4.9	24
30	Electrospun PVDF fibers and a novel PVDF/CoFe2O4 fibrous composite as nanostructured sorbent materials for oil spill cleanup. *Applied Surface Science*, **2017**, 424, 389-396	6.7	40
29	Surface hydrophobization of polyester fibers with poly(methylhydro-dimethyl)siloxane copolymers: Experimental design for testing of modified nonwoven materials as oil spill sorbents. *Polymer Testing*, **2017**, 59, 377-389	4.5	19
28	Design and evaluation of electrospun polysulfone fibers and polysulfone/NiFe2O4 nanostructured composite as sorbents for oil spill cleanup. *Journal of the Taiwan Institute of Chemical Engineers*, **2017**, 70, 267-281	5.3	41
27	Preparation of ferroelectric barium titanate through an energy effective solid state ultrasound assisted method. *Journal of the American Ceramic Society*, **2017**, 100, 4511-4518	3.8	9
26	Novel chitosan-functionalized samarium-doped cobalt ferrite for adsorptive removal of anionic dye from aqueous solutions. *Comptes Rendus Chimie*, **2017**, 20, 1026-1036	2.7	12
25	Remarkable catalytic properties of rare-earth doped nickel ferrites synthesized by sol-gel auto-combustion with maleic acid as fuel for CWPO of dyes. *Applied Catalysis B: Environmental*, **2017**, 202, 21-32	21.8	62
24	Fabrication and characterization of cubic Ba0.5Sr0.5Co0.8Fe0.2O3−δ perovskite for a novel star-shaped oxygen membrane with a developed surface. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2016**, 209, 66-74	3.1	3

23	SYNTHESIS, CHARACTERIZATION AND CATALYTIC BEHAVIOR OF Mg-Zn FERRITES SUPPORTED ON ALUMINA. *Environmental Engineering and Management Journal*, **2016**, 15, 2537-2543	0.6	
22	Novel Synthesis Route for Chitosan-Coated Zinc Ferrite Nanoparticles as Potential Sorbents for Wastewater Treatment. *Chemical Engineering Communications*, **2016**, 203, 1591-1599	2.2	16
21	New Zn(II) and Cu(II) complexes with in situ generated N2O2 siloxane Schiff base ligands. *Polyhedron*, **2016**, 115, 76-85	2.7	15
20	Development of visible-light-driven Ca2Fe1−xSmxBiO6 double perovskites for decomposition of Rhodamine 6G dye. *Journal of Photochemistry and Photobiology A: Chemistry*, **2015**, 307-308, 1-8	4.7	16
19	Magnetic properties of nanosized Gd doped Ni–Mn–Cr ferrites prepared using the sol–gel autocombustion technique. *Journal of Magnetism and Magnetic Materials*, **2015**, 378, 92-97	2.8	58
18	Nanosized Spinel Ferrites Synthesized by Sol-Gel Autocombustion for Optimized Removal of Azo Dye from Aqueous Solution. *Journal of Nanomaterials*, **2015**, 2015, 1-13	3.2	30
17	Is it possible the substitution of Cr cations from spinel-type oxides with bulky rare-earth cations by sol–gel auto-combustion method?. *Journal of Alloys and Compounds*, **2015**, 651, 200-207	5.7	
16	Effect of Al3+ substituted zinc ferrite on photocatalytic degradation of Orange I azo dye. *Journal of Photochemistry and Photobiology A: Chemistry*, **2014**, 279, 17-23	4.7	66
15	Photocatalytic activity of spinel ZnFe2−xCrxO4 nanoparticles on removal Orange I azo dye from aqueous solution. *Journal of the Taiwan Institute of Chemical Engineers*, **2014**, 45, 1655-1660	5.3	30
14	Influence of A-site Cation on Structure and Dielectric Properties in A2DyBiO6 (A=Mg, Ca, Sr, Ba) Double Perovskites. *Australian Journal of Chemistry*, **2014**, 67, 250	1.2	2
13	RECOVERY OF Fe3+, Ti4+ AND Ni2+ IONS FROM SLUDGES RESULTED DURING URANIUM ORES PROCESSING BY IMMOBILIZATION ON ZEOLITES. *Environmental Engineering and Management Journal*, **2014**, 13, 729-734	0.6	
12	Synthesis, characterization of double perovskite Ca2MSbO6 (M = Dy, Fe, Cr, Al) materials via sol–gel auto-combustion and their catalytic properties. *Materials Characterization*, **2013**, 84, 112-119	3.9	8
11	Influence of the B-site cation nature on dielectric properties of Ca2XBiO6 (X = Dy, Fe, Al) double perovskite. *Chemical Papers*, **2013**, 67,	1.9	1
10	Study of the chelating/fuel agents influence on NiFe2O4 samples with potential catalytic properties. *Powder Technology*, **2013**, 243, 9-17	5.2	28
9	Influence of chlorine on the catalytic properties of supported rhodium, iridium and platinum in ring opening of naphthenes. *Applied Catalysis A: General*, **2013**, 462-463, 207-219	5.1	15
8	The effect of chelating/combustion agent on catalytic activity and magnetic properties of Dy doped Ni–Zn ferrite. *Materials Chemistry and Physics*, **2012**, 136, 241-246	4.4	40
7	Supported Pt-Rh bimetallic catalysts as efficient systems for methylcyclohexane ring opening. *Applied Catalysis A: General*, **2012**, 415-416, 80-88	5.1	13
6	Control of titania nanodomain size as a route to modulate SMSI effect in Pt/TiO2 catalysts. *Catalysis Communications*, **2010**, 12, 86-91	3.2	15

5	Relationship between the structural properties of supported bimetallic PtRh catalysts and their performances for methylcyclopentane ring opening. *Journal of Catalysis*, **2010**, 276, 237-248	7.3	28
4	Influence of tin addition by redox reaction in different media on the catalytic properties of Pt-Re/Al2O3 naphtha reforming catalysts. *Applied Catalysis A: General*, **2009**, 370, 34-41	5.1	13
3	Selective ring-opening of methylcyclopentane on platinum-based bimetallic catalysts. *Applied Catalysis A: General*, **2009**, 369, 104-112	5.1	35
2	Catalytic Properties of PtRe/Al2O3 Naphtha-Reforming Catalysts Modified by Germanium Introduced by Redox Reaction at Different pH Values. *Industrial & Engineering Chemistry Research*, **2009**, 48, 3771-3778	3.9	13
1	Influence of the pretreatment method on the properties of trimetallic PtReGe/Al2O3 prepared by catalytic reduction. *Applied Catalysis A: General*, **2007**, 332, 37-45	5.1	4