

Petrisor Samoila

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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	Preparation of La doped ZnO ceramic nanostructures by electrospinning-calcination method: Effect of La ³⁺ doping on optical and photocatalytic properties. <i>Applied Surface Science</i> , 2019 , 476, 16-27	6.7	69
57	Effect of Al ³⁺ substituted zinc ferrite on photocatalytic degradation of Orange I azo dye. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014 , 279, 17-23	4.7	66
56	Novel rare earth (RE-La, Er, Sm) metal doped ZnO photocatalysts for degradation of Congo-Red dye: Synthesis, characterization and kinetic studies. <i>Journal of Environmental Management</i> , 2019 , 239, 225-234	7.9	63
55	Remarkable catalytic properties of rare-earth doped nickel ferrites synthesized by sol-gel auto-combustion with maleic acid as fuel for CWPO of dyes. <i>Applied Catalysis B: Environmental</i> , 2017 , 202, 21-32	21.8	62
54	Magnetic properties of nanosized Gd doped Ni _{1-x} Mn _x ferrites prepared using the sol-gel autocombustion technique. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 378, 92-97	2.8	58
53	Design and evaluation of electrospun polysulfone fibers and polysulfone/NiFe ₂ O ₄ nanostructured composite as sorbents for oil spill cleanup. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 70, 267-281	5.3	41
52	Electrospun PVDF fibers and a novel PVDF/CoFe ₂ O ₄ fibrous composite as nanostructured sorbent materials for oil spill cleanup. <i>Applied Surface Science</i> , 2017 , 424, 389-396	6.7	40
51	The effect of chelating/combustion agent on catalytic activity and magnetic properties of Dy doped Ni ₂ N ferrite. <i>Materials Chemistry and Physics</i> , 2012 , 136, 241-246	4.4	40
50	Selective ring-opening of methylcyclopentane on platinum-based bimetallic catalysts. <i>Applied Catalysis A: General</i> , 2009 , 369, 104-112	5.1	35
49	Photocatalytic activity of spinel ZnFe _{2-x} Cr _x O ₄ nanoparticles on removal Orange I azo dye from aqueous solution. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014 , 45, 1655-1660	5.3	30
48	Nanosized Spinel Ferrites Synthesized by Sol-Gel Autocombustion for Optimized Removal of Azo Dye from Aqueous Solution. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-13	3.2	30
47	Study of the chelating/fuel agents influence on NiFe ₂ O ₄ samples with potential catalytic properties. <i>Powder Technology</i> , 2013 , 243, 9-17	5.2	28
46	Relationship between the structural properties of supported bimetallic Pt/Rh catalysts and their performances for methylcyclopentane ring opening. <i>Journal of Catalysis</i> , 2010 , 276, 237-248	7.3	28
45	Ferromagnetic iron oxide-cellulose nanocomposites prepared by ultrasonication. <i>Polymer Chemistry</i> , 2018 , 9, 860-868	4.9	24
44	Novel fibrous composites based on electrospun PSF and PVDF ultrathin fibers reinforced with inorganic nanoparticles: Evaluation as oil spill sorbents. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 1435-1446	3.2	20
43	Photocatalytic and antimicrobial activity of electrospun ZnO:Ag nanostructures. <i>Journal of Alloys and Compounds</i> , 2020 , 834, 155144	5.7	20
42	Surface hydrophobization of polyester fibers with poly(methylhydro-dimethyl)siloxane copolymers: Experimental design for testing of modified nonwoven materials as oil spill sorbents. <i>Polymer Testing</i> , 2017 , 59, 377-389	4.5	19

41	Chitosan-based magnetic adsorbent for removal of water-soluble anionic dye: Artificial neural network modeling and molecular docking insights. <i>International Journal of Biological Macromolecules</i> , 2019 , 123, 587-599	7.9	19
40	Development of visible-light-driven Ca ₂ Fe _{1-x} S _m BiO ₆ double perovskites for decomposition of Rhodamine 6G dye. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015 , 307-308, 1-8	4.7	16
39	Novel Synthesis Route for Chitosan-Coated Zinc Ferrite Nanoparticles as Potential Sorbents for Wastewater Treatment. <i>Chemical Engineering Communications</i> , 2016 , 203, 1591-1599	2.2	16
38	Influence of chlorine on the catalytic properties of supported rhodium, iridium and platinum in ring opening of naphthenes. <i>Applied Catalysis A: General</i> , 2013 , 462-463, 207-219	5.1	15
37	Control of titania nanodomain size as a route to modulate SMSI effect in Pt/TiO ₂ catalysts. <i>Catalysis Communications</i> , 2010 , 12, 86-91	3.2	15
36	New Zn(II) and Cu(II) complexes with in situ generated N ₂ O ₂ siloxane Schiff base ligands. <i>Polyhedron</i> , 2016 , 115, 76-85	2.7	15
35	Supported Pt-Rh bimetallic catalysts as efficient systems for methylcyclohexane ring opening. <i>Applied Catalysis A: General</i> , 2012 , 415-416, 80-88	5.1	13
34	Influence of tin addition by redox reaction in different media on the catalytic properties of Pt-Re/Al ₂ O ₃ naphtha reforming catalysts. <i>Applied Catalysis A: General</i> , 2009 , 370, 34-41	5.1	13
33	Catalytic Properties of PtRe/Al ₂ O ₃ Naphtha-Reforming Catalysts Modified by Germanium Introduced by Redox Reaction at Different pH Values. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 3771-3778	3.9	13
32	Optimized formulation of NiFe ₂ O ₄ @Ca-alginate composite as a selective and magnetic adsorbent for cationic dyes: Experimental and modeling study. <i>Reactive and Functional Polymers</i> , 2018 , 125, 57-69	4.6	12
31	Novel chitosan-functionalized samarium-doped cobalt ferrite for adsorptive removal of anionic dye from aqueous solutions. <i>Comptes Rendus Chimie</i> , 2017 , 20, 1026-1036	2.7	12
30	Novel electrospun membranes based on PVDF fibers embedding lanthanide doped ZnO for adsorption and photocatalytic degradation of dye organic pollutants. <i>Materials Research Bulletin</i> , 2021 , 141, 111376	5.1	11
29	Preparation of ferroelectric barium titanate through an energy effective solid state ultrasound assisted method. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4511-4518	3.8	9
28	Porous polymer/inorganic composite matrices as efficient desiccants for air dehumidification. <i>Applied Surface Science</i> , 2019 , 487, 1189-1197	6.7	9
27	Synthesis, characterization of double perovskite Ca ₂ MSbO ₆ (M = Dy, Fe, Cr, Al) materials via sol-gel auto-combustion and their catalytic properties. <i>Materials Characterization</i> , 2013 , 84, 112-119	3.9	8
26	Boosting catalytic wet-peroxide-oxidation performances of cobalt ferrite by doping with lanthanides for organic pollutants degradation. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104961	6.8	8
25	Chitosan-Sulfated Titania Composite Membranes with Potential Applications in Fuel Cell: Influence of Cross-Linker Nature. <i>Polymers</i> , 2020 , 12,	4.5	7
24	Development of Porous Titania Structure with Improved Photocatalytic Activity: Response Surface Modeling and Multi-Objective Optimization. <i>Nanomaterials</i> , 2020 , 10,	5.4	6

23	Relationship between the component synthesis order of zinc ferrite/titania nanocomposites and their performances as visible light-driven photocatalysts for relevant organic pollutant degradation. <i>Comptes Rendus Chimie</i> , 2018 , 21, 263-269	2.7	6
22	Chitin and Chitosan for Water Purification 2019 , 429-460		6
21	Influence of the pretreatment method on the properties of trimetallic Pt/Ce/Al ₂ O ₃ prepared by catalytic reduction. <i>Applied Catalysis A: General</i> , 2007 , 332, 37-45	5.1	4
20	Artificial neural network and molecular modeling for assessing the adsorption performance of a hybrid alginate-based magsorbent. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116406	6	4
19	Plasma generation in liquid as a new efficient synthesis approach of titania/zinc ferrite nano(photo)catalyst. <i>Comptes Rendus Chimie</i> , 2018 , 21, 310-317	2.7	3
18	Fabrication and characterization of cubic Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ perovskite for a novel star-shaped oxygen membrane with a developed surface. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016 , 209, 66-74	3.1	3
17	Ultrasound assisted synthesis of heterostructured TiO ₂ /ZnFe ₂ O ₄ and TiO ₂ /ZnFe _{1.98} La _{0.02} O ₄ systems as tunable photocatalysts for efficient organic pollutants removal. <i>Ceramics International</i> , 2021 , 48, 4829-4829	5.1	3
16	New La ³⁺ doped TiO ₂ nanofibers for photocatalytic degradation of organic pollutants: Effects of thermal treatment and doping loadings. <i>Ceramics International</i> , 2021 ,	5.1	3
15	Influence of A-site Cation on Structure and Dielectric Properties in A ₂ DyBiO ₆ (A=Mg, Ca, Sr, Ba) Double Perovskites. <i>Australian Journal of Chemistry</i> , 2014 , 67, 250	1.2	2
14	Cu/TiO ₂ composite nanofibers with improved photocatalytic performance under UV and UV-visible light irradiation. <i>Surfaces and Interfaces</i> , 2021 , 28, 101644	4.1	2
13	Sol-gel synthesis, texture and catalytic activity of titania/silica sorbents. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	2
12	Investigation of a biosystem based on <i>Arthrospira platensis</i> for air revitalisation in spacecrafts: Performance evaluation through response surface methodology. <i>Chemosphere</i> , 2021 , 264, 128465	8.4	2
11	Influence of the B-site cation nature on dielectric properties of Ca ₂ XBiO ₆ (X = Dy, Fe, Al) double perovskite. <i>Chemical Papers</i> , 2013 , 67,	1.9	1
10	Synthesis of benzaldehyde-grafted polysilane: A highly stable and selective turn-on fluorescent sensor for cytosine. <i>Journal of Molecular Liquids</i> , 2021 , 326, 115300	6	0
9	Bio-based ionically cross-linked alginate composites for PEMFC potential applications. <i>Reactive and Functional Polymers</i> , 2021 , 165, 104967	4.6	0
8	Nano-assembly and optical properties of difluoroboron dibenzoylmethane-polysilane. <i>Polymer</i> , 2021 , 232, 124188	3.9	0
7	Innovative nanostructured magnetite/wool/polysiloxane composite as magnetic adsorbent for oil spill removal. <i>Comptes Rendus Chimie</i> , 2022 , 25, 1-16	2.7	0
6	Tuning of Sm ³⁺ and Er ³⁺ -doped TiO ₂ nanofibers for enhancement of the photocatalytic performance: Optimization of the photodegradation conditions. <i>Journal of Environmental Management</i> , 2022 , 316, 115317	7.9	0

- 5 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
- 4 VISCOSE-MAGHEMITE/GOETHITE POLYMERIC COMPOSITE AS SORBENT FOR OIL SPILL CLEANUP. *Environmental Engineering and Management Journal*, **2019**, 18, 1193-1200 0.6
- 3 SYNTHESIS, CHARACTERIZATION AND CATALYTIC BEHAVIOR OF Mg-Zn FERRITES SUPPORTED ON ALUMINA. *Environmental Engineering and Management Journal*, **2016**, 15, 2537-2543 0.6
- 2 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
- 1 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