

Ali Sobhani

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83

papers

3,397

citations

41

h-index

57

g-index

83

ext. papers

3,800

ext. citations

3.3

avg, IF

6.16

L-index

#	Paper	IF	Citations
83	Rare earth titanate ceramic nanomaterials 2022 , 135-173		
82	Electrochemical monitoring of carbamazepine in biological fluids by a glassy carbon electrode modified with CuO/ZnFe ₂ O ₄ /rGO nanocomposite. <i>Surfaces and Interfaces</i> , 2022 , 101943	4.1	0
81	Green methods for the preparation of MgO nanomaterials and their drug delivery, anti-cancer and anti-bacterial potentials: A review. <i>Inorganic Chemistry Communication</i> , 2021 , 109107	3.1	5
80	Synthesis of Fe ₃ O ₄ /CdWO ₄ /carbon dots heterostructure with excellent visible light photocatalytic stability and activity for degradation of 4-nitrophenol and organic pollutant. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 26998-27013	2.1	2
79	Synthesis of praseodymium titanate nanoparticles supported on core-shell silica coated magnetite via mild condition and their photocatalytic capability evaluation. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 13527-13538	2.1	2
78	Heterojunction of N/B/RGO and g-CN anchored magnetic ZnFeO@ZnO for promoting UV/Vis-induced photo-catalysis and in vitro toxicity studies. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 11430-11443	5.1	8
77	The ZnFe ₂ O ₄ @mZnO/rGO nano-composite as a carrier and an intelligent releaser drug with dual pH- and ultrasound-triggered control. <i>New Journal of Chemistry</i> , 2021 , 45, 4280-4291	3.6	10
76	Co-precipitation synthesis of Ag-doped NiCr ₂ O ₄ nanoparticles: investigation of structural, optical, magnetic, and photocatalytic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 1413-1426	2.1	3
75	A facile preparation of ZnFe ₂ O ₄ @CuO-N/B/RGO and ZnFe ₂ O ₄ @CuO@C ₃ N ₄ ternary heterojunction nanophotocatalyst: characterization, biocompatibility, photo-Fenton-like degradation of MO and magnetic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 5457-5472	2.1	5
74	Adsorption of Cationic Dyes on a Magnetic 3D Spongin Scaffold with Nano-Sized FeO Cores. <i>Marine Drugs</i> , 2021 , 19,	6	3
73	Application of polysaccharide biopolymers as natural adsorbent in sample preparation. <i>Critical Reviews in Food Science and Nutrition</i> , 2021 , 1-28	11.5	2
72	Cur-loaded magnetic ZnFe ₂ O ₄ @mZnO-Ox-p-g-C ₃ N ₄ composites as dual pH- and ultrasound responsive nano-carriers for controlled and targeted cancer chemotherapy. <i>Materials Chemistry and Physics</i> , 2021 , 271, 124863	4.4	6
71	Synthesis of Magnetic Fe ₃ O ₄ /ZnWO ₄ and Fe ₃ O ₄ /ZnWO ₄ /CeVO ₄ Nanoparticles: The Photocatalytic Effects on Organic Pollutants upon Irradiation with UV-Vis Light. <i>Catalysts</i> , 2020 , 10, 494	4	15
70	Preparation of FeO/SiO ₂ /TiO ₂ /CeVO ₄ Nanocomposites: Investigation of Photocatalytic Effects on Organic Pollutants, Bacterial Environments, and New Potential Therapeutic Candidate Against Cancer Cells. <i>Frontiers in Pharmacology</i> , 2020 , 11, 192	5.6	14
69	Preparation and characterization of MnTiO ₃ , FeTiO ₃ , and CoTiO ₃ nanoparticles and investigation various applications: a review. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 6511-6524	2.1	3
68	A modified sensitive carbon paste electrode for 5-fluorouracil based using a composite of praseodymium erbium tungstate. <i>Microchemical Journal</i> , 2020 , 154, 104654	4.8	5
67	Synthesis and characterization of Sm ₂ (MoO ₄) ₃ , Sm ₂ (MoO ₄) ₃ /GO and Sm ₂ (MoO ₄) ₃ /C ₃ N ₄ nanostructures for improved photocatalytic performance and their anti-cancer the MCF-7 cells. <i>Polyhedron</i> , 2020 , 180, 114424	2.7	16

66	Electrochemical determination of levodopa on a reduced graphene oxide paste electrode modified with a metal-organic framework. <i>Microchemical Journal</i> , 2020 , 156, 104888	4.8	27
65	Synthesis of novel Fe ₃ O ₄ @SiO ₂ @Er ₂ TiO ₅ superparamagnetic core-shell and evaluation of their photocatalytic capacity. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 10553-10563	2.1	2
64	Preparation of Fe ₃ O ₄ /SiO ₂ /TiO ₂ /PrVO ₄ nanocomposite in various molar ratios: Investigation on photocatalytic performance on organic contaminate and bacterial environments, and anti-cancer properties. <i>Polyhedron</i> , 2020 , 176, 114239	2.7	6
63	CdTe quantum dots prepared using herbal species and microorganisms and their anti-cancer, drug delivery and antibacterial applications; a review. <i>Ceramics International</i> , 2020 , 46, 9979-9989	5.1	13
62	Sonochemical synthesis of ErVO ₄ /MnWO ₄ heterostructures: Application as a novel nanostructured surface for electrochemical determination of tyrosine in biological samples. <i>Polyhedron</i> , 2020 , 177, 114302	2.7	9
61	Evaluation of the thermal properties of SrCO ₃ -microencapsulated palmitic acid composites as thermal energy storage materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 140, 2123-2130	4.1	4
60	Electrochemical Oxidation and Determination of Antiviral Drug Acyclovir by Modified Carbon Paste Electrode With Magnetic CdO Nanoparticles. <i>Frontiers in Chemistry</i> , 2020 , 8, 689	5	8
59	Optimization and detailed stability study on coupling of CdMoO ₄ into BaWO ₄ for enhanced photodegradation and removal of organic contaminant. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 2425-2438	5.9	9
58	Electrochemical synthesis of copper carbonates nanoparticles through experimental design and the subsequent thermal decomposition to copper oxide. <i>Materials Research Express</i> , 2019 , 6, 045065	1.7	10
57	Effect of Gd ³⁺ , Pr ³⁺ or Sm ³⁺ -substituted cobalt-zinc ferrite on photodegradation of methyl orange and cytotoxicity tests. <i>Journal of Rare Earths</i> , 2019 , 37, 1288-1295	3.7	44
56	Synergetic effect of graphene oxide and C ₃ N ₄ as co-catalyst for enhanced photocatalytic performance of dyes on Yb ₂ (MoO ₄) ₃ /YbMoO ₄ nanocomposite. <i>Ceramics International</i> , 2019 , 45, 17847-17858	5.1	38
55	Experimental Study of the Thermal Properties of Microencapsulated Palmitic Acid Composites with CuCO ₃ Shell as Thermal Energy Storage Materials. <i>ChemistrySelect</i> , 2019 , 4, 6501-6505	1.8	4
54	Mn(VO) ₂ Nanorods: Its Green Synthesis and Photocatalytic Properties with the Aid of Polysorbate as the Polymeric Capping Agent. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 5142-5149	1.3	
53	Synthesis of some transition MWO ₄ (M: Mn, Fe, Co, Ni, Cu, Zn, Cd) nanostructures by hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 8105-8144	2.1	2
52	Synthesis and Supercapacitor Application of Cerium Tungstate Nanostructure. <i>ChemistrySelect</i> , 2019 , 4, 2862-2867	1.8	9
51	Assessing the magnetic, cytotoxic and photocatalytic influence of incorporating Yb ³⁺ or Pr ³⁺ ions in cobalt-nickel ferrite. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 6902-6909	2.1	71
50	Specific fluorometric assay for direct determination of amikacin by molecularly imprinting polymer on high fluorescent g-CN quantum dots. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 214, 451-458	4.4	33
49	Preparation, characterization and investigation of sonophotocatalytic activity of thulium titanate/polyaniline nanocomposites in degradation of dyes. <i>Ultrasonics Sonochemistry</i> , 2019 , 50, 46-58	8.9	36

48	Preparation of Co ₂ TiO ₄ /CoTiO ₃ /Polyaniline ternary nano-hybrids for enhanced destruction of agriculture poison and organic dyes under visible-light irradiation. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 15854-15868	2.1	21
47	Preparation and Characterization of Magnetic FeO/CdWO and FeO/CdWO/PrVO Nanoparticles and Investigation of Their Photocatalytic and Anticancer Properties on PANC1 Cells. <i>Materials</i> , 2019 , 12,	3.5	41
46	Electrochemical determination of the antipsychotic medication clozapine by a carbon paste electrode modified with a nanostructure prepared from titania nanoparticles and copper oxide. <i>Mikrochimica Acta</i> , 2019 , 186, 698	5.8	25
45	Simple synthesis and characterization of Li _{0.5} Fe _{2.5} O ₄ , LiMg _{0.5} Fe ₂ O ₄ and LiNi _{0.5} Fe ₂ O ₄ , and investigation of their photocatalytic and anticancer properties on hela cells line. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 19691-19702	2.1	31
44	New method for synthesis of BaFe ₁₂ O ₁₉ /Sm ₂ Ti ₂ O ₇ and BaFe ₁₂ O ₁₉ /Sm ₂ Ti ₂ O ₇ /Ag nano-hybrid and investigation of optical and photocatalytic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 5854-5865	2.1	45
43	Silver nanofibers/ionic liquid nanocomposite based electrochemical sensor for detection of clonazepam via electrochemically amplified detection. <i>Microchemical Journal</i> , 2019 , 145, 1185-1190	4.8	35
42	A theoretical study of two novel Schiff bases as inhibitors of carbon steel corrosion in acidic medium. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	17
41	Eco-friendly synthesis of PbTiO ₃ nanoparticles and PbTiO ₃ /carbon quantum dots binary nano-hybrids for enhanced photocatalytic performance under visible light. <i>Separation and Purification Technology</i> , 2019 , 211, 873-881	8.3	58
40	Synthesis and characterization of MnWO ₄ /TmVO ₄ ternary nano-hybrids by an ultrasonic method for enhanced photocatalytic activity in the degradation of organic dyes. <i>Materials Letters</i> , 2019 , 238, 159-162	3.3	70
39	Investigation of positron annihilation lifetime and magnetic properties of Co _{1-x} Cu _x Fe ₂ O ₄ nanoparticles. <i>Materials Research Express</i> , 2019 , 6, 015023	1.7	29
38	An electrochemical immunosensor based on poly p-phenylenediamine and graphene nanocomposite for detection of neuron-specific enolase via electrochemically amplified detection. <i>Analytical Biochemistry</i> , 2018 , 548, 53-59	3.1	82
37	Ultrasound-assisted synthesis of YbVO nanostructure and YbVO/CuWO nanocomposites for enhanced photocatalytic degradation of organic dyes under visible light. <i>Ultrasonics Sonochemistry</i> , 2018 , 43, 120-135	8.9	60
36	Investigation of optical properties and the photocatalytic activity of synthesized YbYO ₄ nanoparticles and YbVO ₄ /NiWO ₄ nanocomposites by polymeric capping agents. <i>Journal of Molecular Structure</i> , 2018 , 1157, 607-615	3.4	55
35	Green Synthesis and Characterization of SmVO ₄ Nanoparticles in the Presence of Carbohydrates As Capping Agents with Investigation of Visible-Light Photocatalytic Properties. <i>Journal of Electronic Materials</i> , 2018 , 47, 3757-3769	1.9	46
34	Sonochemical synthesis of terbium tungstate for developing high power supercapacitors with enhanced energy densities. <i>Ultrasonics Sonochemistry</i> , 2018 , 45, 189-196	8.9	35
33	Development of electrochemical sensor for sensitive determination of oxazepam based on silver-platinum core-shell nanoparticles supported on graphene. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 823, 61-66	4.1	53
32	Synthesis and characterization of CuWO ₄ nanoparticle and CuWO ₄ /NiO nanocomposite using co-precipitation method; application in photodegradation of organic dye in water. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 13737-13745	2.1	53
31	Five-component domino synthesis of tetrahydropyridines using hexagonal PbCr _x Fe _{12-x} O ₁₉ as efficient magnetic nanocatalyst. <i>Research on Chemical Intermediates</i> , 2017 , 43, 6155-6165	2.8	61

30	Sonication method synergism with rare earth based nanocatalyst: preparation of NiFe ₂ Eu _x O ₄ nanostructures and its catalytic applications for the synthesis of benzimidazoles, benzoxazoles, and benzothiazoles under ultrasonic irradiation. <i>Journal of Rare Earths</i> , 2017 , 35, 374-381	3.7	108
29	Evaluation of supercapacitive behavior of samarium tungstate nanoparticles synthesized via sonochemical method. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 8588-8595	2.1	72
28	Synthesis, characterization, and antibacterial activities of ZnLaFe ₂ O ₄ /NiTiO ₃ nanocomposite. <i>Journal of Molecular Structure</i> , 2017 , 1139, 430-435	3.4	72
27	Investigation the effect of temperature and polymeric capping agents on the size and photocatalytic properties of NdVO ₄ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 16459-16466	2.1	51
26	Facile synthesis and characterization of CdTiO ₃ nanoparticles by Pechini sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 14965-14973	2.1	50
25	Decoration of nitrogen-doped reduced graphene oxide with cobalt tungstate nanoparticles for use in high-performance supercapacitors. <i>Applied Surface Science</i> , 2017 , 423, 1025-1034	6.7	157
24	Green synthesis and characterization of NaEuTi ₂ O ₆ nanoparticles and its photocatalyst application. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 4345-4350	2.1	60
23	Novel silver-doped NiTiO ₃ : auto-combustion synthesis, characterization and photovoltaic measurements. <i>South African Journal of Chemistry</i> , 2017 ,	1.8	3
22	Synthesis, characterization, and morphological control of ZnTiO ₃ nanoparticles through sol-gel processes and its photocatalyst application. <i>Advanced Powder Technology</i> , 2016 , 27, 2066-2075	4.6	142
21	Synthesis, characterization, and morphological control of Eu ₂ Ti ₂ O ₇ nanoparticles through green method and its photocatalyst application. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 11946-11951	2.1	47
20	Nanocrystalline Ce-doped copper ferrite: synthesis, characterization, and its photocatalyst application. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 11691-11697	2.1	138
19	Precipitation Synthesis, Characterization, Morphological Control, and Photocatalyst Application of ZnWO ₄ Nanoparticles. <i>Journal of Electronic Materials</i> , 2016 , 45, 3612-3620	1.9	85
18	A simple sonochemical synthesis and characterization of CdWO ₄ nanoparticles and its photocatalytic application. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 3240-3244	2.1	64
17	Ce(MoO ₄) ₂ nanostructures: Synthesis, characterization, and its photocatalyst application through the ultrasonic method. <i>Journal of Molecular Liquids</i> , 2016 , 216, 1-5	6	91
16	Synthesis and characterization of rod-like CaMoO ₄ nanostructure via free surfactant sonochemical route and its photocatalytic application. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 4351-4355	2.1	78
15	Controlling the synthesis SrMoO ₄ nanostructures and investigation its photocatalyst application. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 5758-5763	2.1	56
14	Synthesis and characterization of AgO nanostructures by precipitation method and its photocatalyst application. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 1191-1196	2.1	62
13	Novel silver-doped CdMoO ₄ : synthesis, characterization, and its photocatalytic performance for methyl orange degradation through the sonochemical method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 474-480	2.1	82

12	Simple synthesis and characterization of copper tungstate nanoparticles: investigation of surfactant effect and its photocatalyst application. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 7548-7553	2.1	54
11	Preparation and characterization of calcium tungstate nanoparticles with the aid of amino acids and investigation its photocatalytic application. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 7933-7938	2.1	47
10	NiAl ₂ O ₄ nanoparticles: synthesis and characterization through modify sol-gel method and its photocatalyst application. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 7745-7750	2.1	82
9	Synthesis, characterization, and morphological control of ZnMoO ₄ nanostructures through precipitation method and its photocatalyst application. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 7588-7594	2.1	56
8	Synthesis, characterization, and magnetic property of monoferrite BaFe ₂ O ₄ nanoparticles with aid of a novel precursor. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 3813-3818	2.1	53
7	Synthesis, characterization, and morphological control of CaCu ₃ Ti ₄ O ₁₂ through modify sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 6086-6091	2.1	68
6	Synthesis, characterization, and photovoltaic application of NiTiO ₃ nanostructures via two-step sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 5735-5742	2.1	47
5	Synthesis, characterization, and morphological control of Na _{1/2} Bi _{1/2} Cu ₃ Ti ₄ O ₁₂ through modify sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 4848-4853	2.1	47
4	ZnFe _{2-x} LaxO ₄ nanostructure: synthesis, characterization, and its magnetic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 9776-9781	2.1	126
3	Novel sol-gel method for synthesis of PbTiO ₃ and its light harvesting applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 9552-9560	2.1	51
2	Controlled Synthesis of CoTiO ₃ Nanostructures Via Two-Step Sol-Gel Method in the Presence of 1,3,5-Benzenetricarboxylic Acid. <i>Journal of Cluster Science</i> , 2015 , 26, 1305-1318	3	55
1	Bismuth selenide nanoparticles: simple synthesis, characterization, and its light harvesting applications in the presence of novel precursor. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 5440-5445	2.1	52