Ali Sobhani

List of Publications by Citations

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	Decoration of nitrogen-doped reduced graphene oxide with cobalt tungstate nanoparticles for use in high-performance supercapacitors. *Applied Surface Science*, **2017**, 423, 1025-1034	6.7	157
82	Synthesis, characterization, and morphological control of ZnTiO3 nanoparticles through sol-gel processes and its photocatalyst application. *Advanced Powder Technology*, **2016**, 27, 2066-2075	4.6	142
81	Nanocrystalline Ce-doped copper ferrite: synthesis, characterization, and its photocatalyst application. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 11691-11697	2.1	138
80	ZnFe2□LaxO4 nanostructure: synthesis, characterization, and its magnetic properties. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 9776-9781	2.1	126
79	Sonication method synergism with rare earth based nanocatalyst: preparation of NiFe 2□x Eu x O 4 nanostructures and its catalytic applications for the synthesis of benzimidazoles, benzoxazoles, and benzothiazoles under ultrasonic irradiation. *Journal of Rare Earths*, **2017**, 35, 374-381	3.7	108
78	Ce(MoO4)2 nanostructures: Synthesis, characterization, and its photocatalyst application through the ultrasonic method. *Journal of Molecular Liquids*, **2016**, 216, 1-5	6	91
77	Precipitation Synthesis, Characterization, Morphological Control, and Photocatalyst Application of ZnWO4 Nanoparticles. *Journal of Electronic Materials*, **2016**, 45, 3612-3620	1.9	85
76	NiAl2O4 nanoparticles: synthesis and characterization through modify sol□gel method and its photocatalyst application. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 7745-7750	2.1	82
75	An electrochemical immunosensor based on poly p-phenylenediamine and graphene nanocomposite for detection of neuron-specific enolase via electrochemically amplified detection. *Analytical Biochemistry*, **2018**, 548, 53-59	3.1	82
74	Novel silver-doped CdMoO4: synthesis, characterization, and its photocatalytic performance for methyl orange degradation through the sonochemical method. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 474-480	2.1	82
73	Synthesis and characterization of rod-like CaMoO4 nanostructure via free surfactant sonochemical route and its photocatalytic application. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 4351-4355	2.1	78
72	Evaluation of supercapacitive behavior of samarium tungstate nanoparticles synthesized via sonochemical method. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 8588-8595	2.1	72
71	Synthesis, characterization, and antibacterial activities of ZnLaFe2O4/NiTiO3 nanocomposite. *Journal of Molecular Structure*, **2017**, 1139, 430-435	3.4	72
70	Assessing the magnetic, cytotoxic and photocatalytic influence of incorporating Yb3+ or Pr3+ ions in cobalt□ickel ferrite. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 6902-6909	2.1	71
69	Synthesis and characterization of MnWO4/TmVO4 ternary nano-hybrids by an ultrasonic method for enhanced photocatalytic activity in the degradation of organic dyes. *Materials Letters*, **2019**, 238, 159-162	3.3	70
68	Synthesis, characterization, and morphological control of CaCu3Ti4O12 through modify sol□gel method. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 6086-6091	2.1	68
67	A simple sonochemical synthesis and characterization of CdWO4 nanoparticles and its photocatalytic application. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 3240-3244	2.1	64

66	Synthesis and characterization of AgO nanostructures by precipitation method and its photocatalyst application. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 1191-1196	2.1	62
65	Five-component domino synthesis of tetrahydropyridines using hexagonal PbCr x Fe12− O19 as efficient magnetic nanocatalyst. *Research on Chemical Intermediates*, **2017**, 43, 6155-6165	2.8	61
64	Ultrasound-assisted synthesis of YbVO nanostructure and YbVO/CuWO nanocomposites for enhanced photocatalytic degradation of organic dyes under visible light. *Ultrasonics Sonochemistry*, **2018**, 43, 120-135	8.9	60
63	Green synthesis and characterization of NaEuTi2O6 nanoparticles and its photocatalyst application. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 4345-4350	2.1	60
62	Eco-friendly synthesis of PbTiO3 nanoparticles and PbTiO3/carbon quantum dots binary nano-hybrids for enhanced photocatalytic performance under visible light. *Separation and Purification Technology*, **2019**, 211, 873-881	8.3	58
61	Synthesis, characterization, and morphological control of ZnMoO4 nanostructures through precipitation method and its photocatalyst application. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 7588-7594	2.1	56
60	Controlling the synthesis SrMoO4 nanostructures and investigation its photocatalyst application. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 5758-5763	2.1	56
59	Controlled Synthesis of CoTiO3 Nanostructures Via Two-Step Sol–Gel Method in the Presence of 1,3,5-Benzenetricarboxylic Acid. *Journal of Cluster Science*, **2015**, 26, 1305-1318	3	55
58	Investigation of optical properties and the photocatalytic activity of synthesized YbYO4 nanoparticles and YbVO4/NiWO4 nanocomposites by polymeric capping agents. *Journal of Molecular Structure*, **2018**, 1157, 607-615	3.4	55
57	Simple synthesis and characterization of copper tungstate nanoparticles: investigation of surfactant effect and its photocatalyst application. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 7548-7553	2.1	54
56	Synthesis, characterization, and magnetic property of monoferrite BaFe2O4 nanoparticles with aid of a novel precursor. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 3813-3818	2.1	53
55	Development of electrochemical sensor for sensitive determination of oxazepam based on silver-platinum core–shell nanoparticles supported on graphene. *Journal of Electroanalytical Chemistry*, **2018**, 823, 61-66	4.1	53
54	Synthesis and characterization of CuWO4 nanoparticle and CuWO4/NiO nanocomposite using co-precipitation method; application in photodegradation of organic dye in water. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 13737-13745	2.1	53
53	Bismuth selenide nanoparticles: simple synthesis, characterization, and its light harvesting applications in the presence of novel precursor. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 5440-5445	2.1	52
52	Novel sol–gel method for synthesis of PbTiO3 and its light harvesting applications. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 9552-9560	2.1	51
51	Investigation the effect of temperature and polymeric capping agents on the size and photocatalytic properties of NdVO4 nanoparticles. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 16459-16466	2.1	51
50	Facile synthesis and characterization of CdTiO3 nanoparticles by Pechini sol–gel method. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 14965-14973	2.1	50
49	Synthesis, characterization, and photovoltaic application of NiTiO3 nanostructures via two-step sol–gel method. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 5735-5742	2.1	47

48	Synthesis, characterization, and morphological control of Na1/2Bi1/2Cu3Ti4O12 through modify sol□el method. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 4848-4853	2.1	47
47	Synthesis, characterization, and morphological control of Eu2Ti2O7 nanoparticles through green method and its photocatalyst application. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 11946-11951	2.1	47
46	Preparation and characterization of calcium tungstate nanoparticles with the aid of amino acids and investigation its photocatalytic application. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 7933-7938	2.1	47
45	Green Synthesis and Characterization of SmVO4 Nanoparticles in the Presence of Carbohydrates As Capping Agents with Investigation of Visible-Light Photocatalytic Properties. *Journal of Electronic Materials*, **2018**, 47, 3757-3769	1.9	46
44	New method for synthesis of BaFe12O19/Sm2Ti2O7 and BaFe12O19/Sm2Ti2O7/Ag nano-hybrid and investigation of optical and photocatalytic properties. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 5854-5865	2.1	45
43	Effect of Gd3+-, Pr3+- or Sm3+-substituted cobalt□inc ferrite on photodegradation of methyl orange and cytotoxicity tests. *Journal of Rare Earths*, **2019**, 37, 1288-1295	3.7	44
42	Preparation and Characterization of Magnetic FeO/CdWO and FeO/CdWO/PrVO Nanoparticles and Investigation of Their Photocatalytic and Anticancer Properties on PANC1 Cells. *Materials*, **2019**, 12,	3.5	41
41	Synergetic effect of graphene oxide and C3N4 as co-catalyst for enhanced photocatalytic performance of dyes on Yb2(MoO4)3/YbMoO4 nanocomposite. *Ceramics International*, **2019**, 45, 17847-17858	3.1	38
40	Preparation, characterization and investigation of sonophotocatalytic activity of thulium titanate/polyaniline nanocomposites in degradation of dyes. *Ultrasonics Sonochemistry*, **2019**, 50, 46-58	8.9	36
39	Sonochemical synthesis of terbium tungstate for developing high power supercapacitors with enhanced energy densities. *Ultrasonics Sonochemistry*, **2018**, 45, 189-196	8.9	35
38	Silver nanofibers/ionic liquid nanocomposite based electrochemical sensor for detection of clonazepam via electrochemically amplified detection. *Microchemical Journal*, **2019**, 145, 1185-1190	4.8	35
37	Specific fluorometric assay for direct determination of amikacin by molecularly imprinting polymer on high fluorescent g-CN quantum dots. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 214, 451-458	4.4	33
36	Simple synthesis and characterization of Li0.5Fe2.5O4, LiMg0.5Fe2O4 and LiNi0.5Fe2O4, and investigation of their photocatalytic and anticancer properties on hela cells line. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 19691-19702	2.1	31
35	Investigation of positron annihilation lifetime and magnetic properties of Co1□CuxFe2O4nanoparticles. *Materials Research Express*, **2019**, 6, 015023	1.7	29
34	Electrochemical determination of levodopa on a reduced graphene oxide paste electrode modified with a metal-organic framework. *Microchemical Journal*, **2020**, 156, 104888	4.8	27
33	Electrochemical determination of the antipsychotic medication clozapine by a carbon paste electrode modified with a nanostructure prepared from titania nanoparticles and copper oxide. *Mikrochimica Acta*, **2019**, 186, 698	5.8	25
32	Preparation of Co2TiO4/CoTiO3/Polyaniline ternary nano-hybrids for enhanced destruction of agriculture poison and organic dyes under visible-light irradiation. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 15854-15868	2.1	21
31	A theoretical study of two novel Schiff bases as inhibitors of carbon steel corrosion in acidic medium. *Applied Physics A: Materials Science and Processing*, **2019**, 125, 1	2.6	17

30	Synthesis and characterization of Sm2(MoO4)3, Sm2(MoO4)3/GO and Sm2(MoO4)3/C3N4 nanostructures for improved photocatalytic performance and their anti-cancer the MCF-7 cells. *Polyhedron*, **2020**, 180, 114424	2.7	16
29	Synthesis of Magnetic Fe3O4/ZnWO4 and Fe3O4/ZnWO4/CeVO4 Nanoparticles: The Photocatalytic Effects on Organic Pollutants upon Irradiation with UV-Vis Light. *Catalysts*, **2020**, 10, 494	4	15
28	Preparation of FeO/SiO/TiO/CeVO Nanocomposites: Investigation of Photocatalytic Effects on Organic Pollutants, Bacterial Environments, and New Potential Therapeutic Candidate Against Cancer Cells. *Frontiers in Pharmacology*, **2020**, 11, 192	5.6	14
27	CdTe quantum dots prepared using herbal species and microorganisms and their anti-cancer, drug delivery and antibacterial applications; a review. *Ceramics International*, **2020**, 46, 9979-9989	5.1	13
26	Electrochemical synthesis of copper carbonates nanoparticles through experimental design and the subsequent thermal decomposition to copper oxide. *Materials Research Express*, **2019**, 6, 045065	1.7	10
25	The ZnFe2O4@mZnO@N/RGO nano-composite as a carrier and an intelligent releaser drug with dual pH- and ultrasound-triggered control. *New Journal of Chemistry*, **2021**, 45, 4280-4291	3.6	10
24	Synthesis and Supercapacitor Application of Cerium Tungstate Nanostructure. *ChemistrySelect*, **2019**, 4, 2862-2867	1.8	9
23	Sonochemical synthesis of ErVO4/MnWO4 heterostructures: Application as a novel nanostructured surface for electrochemical determination of tyrosine in biological samples. *Polyhedron*, **2020**, 177, 114302	2.7	9
22	Optimization and detailed stability study on coupling of CdMoO4 into BaWO4 for enhanced photodegradation and removal of organic contaminant. *Arabian Journal of Chemistry*, **2020**, 13, 2425-2438	5.9	9
21	Electrochemical Oxidation and Determination of Antiviral Drug Acyclovir by Modified Carbon Paste Electrode With Magnetic CdO Nanoparticles. *Frontiers in Chemistry*, **2020**, 8, 689	5	8
20	Heterojunction of N/B/RGO and g-CN anchored magnetic ZnFeO@ZnO for promoting UV/Vis-induced photo-catalysis and in vitro toxicity studies. *Environmental Science and Pollution Research*, **2021**, 28, 11430-11443	5.1	8
19	Preparation of Fe3O4/SiO2/TiO2/PrVO4 nanocomposite in various molar ratios: Investigation on photocatalytic performance on organic contaminate and bacterial environments, and anti-cancer properties. *Polyhedron*, **2020**, 176, 114239	2.7	6
18	Cur-loaded magnetic ZnFe2O4@mZnO-Ox-p-g-C3N4 composites as dual pH- and ultrasound responsive nano-carriers for controlled and targeted cancer chemotherapy. *Materials Chemistry and Physics*, **2021**, 271, 124863	4.4	6
17	A modified sensitive carbon paste electrode for 5-fluorouracil based using a composite of praseodymium erbium tungstate. *Microchemical Journal*, **2020**, 154, 104654	4.8	5
16	Green methods for the preparation of MgO nanomaterials and their drug delivery, anti-cancer and anti-bacterial potentials: A review. *Inorganic Chemistry Communication*, **2021**, 109107	3.1	5
15	A facile preparation of ZnFe2O4@CuO-N/B/RGO and ZnFe2O4@CuO@C3N4 ternary heterojunction nanophotocatalyst: characterization, biocompatibility, photo-Fenton-like degradation of MO and magnetic properties. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 5457-5472	2.1	5
14	Experimental Study of the Thermal Properties of Microencapsulated Palmitic Acid Composites with CuCO3 Shell as Thermal Energy Storage Materials. *ChemistrySelect*, **2019**, 4, 6501-6505	1.8	4
13	Evaluation of the thermal properties of SrCO3-microencapsulated palmitic acid composites as thermal energy storage materials. *Journal of Thermal Analysis and Calorimetry*, **2020**, 140, 2123-2130	4.1	4

12	Preparation and characterization of MnTiO3, FeTiO3, and CoTiO3 nanoparticles and investigation various applications: a review. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 6511-6524	2.1	3
11	Novel silver-doped NiTiO3: auto-combustion synthesis, characterization and photovoltaic measurements. *South African Journal of Chemistry*, **2017**,	1.8	3
10	Co-precipitation synthesis of Ag-doped NiCr2O4 nanoparticles: investigation of structural, optical, magnetic, and photocatalytic properties. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 1413-1426	2.1	3
9	Adsorption of Cationic Dyes on a Magnetic 3D Spongin Scaffold with Nano-Sized FeO Cores. *Marine Drugs*, **2021**, 19,	6	3
8	Synthesis of some transition MWO4 (M: Mn, Fe, Co, Ni, Cu, Zn, Cd) nanostructures by hydrothermal method. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 8105-8144	2.1	2
7	Synthesis of Fe3O4/CdWO4/carbon dots heterostructure with excellent visible light photocatalytic stability and activity for degradation of 4-nitrophenol and organic pollutant. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 26998-27013	2.1	2
6	Synthesis of novel Fe3O4@SiO2@Er2TiO5 superparamagnetic core□shell and evaluation of their photocatalytic capacity. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 10553-10563	2.1	2
5	Synthesis of praseodymium titanate nanoparticles supported on core□shell silica coated magnetite via mild condition and their photocatalytic capability evaluation. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 13527-13538	2.1	2
4	Application of polysaccharide biopolymers as natural adsorbent in sample preparation. *Critical Reviews in Food Science and Nutrition*, **2021**, 1-28	11.5	2
3	Electrochemical monitoring of carbamazepine in biological fluids by a glassy carbon electrode modified with CuO/ZnFe2O4/rGO nanocomposite. *Surfaces and Interfaces*, **2022**, 101943	4.1	0
2	Mn(VO)□□Nanorods: Its Green Synthesis and Photocatalytic Properties with the Aid of Polysorbate as the Polymeric Capping Agent. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 5142-5149	1.3	
1	Rare earth titanate ceramic nanomaterials **2022**, 135-173		