

Ali Sobhani

List of Publications by Year in descending order

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83
papers

4,220
citations

50273

46
h-index

114455

63
g-index

83
all docs

83
docs citations

83
times ranked

3024
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	6.1	180
2	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.	4.1	163
3	Nanocrystalline Ce-doped copper ferrite: synthesis, characterization, and its photocatalyst application. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 11691-11697.	2.2	163
4	ZnFe ₂ xLaxO ₄ nanostructure: synthesis, characterization, and its magnetic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 9776-9781.	2.2	135
5	Sonication method synergism with rare earth based nanocatalyst: preparation of NiFe ₂ xEu _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.	4.8	130
6	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.	2.4	105
7	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.	4.9	102
8	Precipitation Synthesis, Characterization, Morphological Control, and Photocatalyst Application of ZnWO ₄ Nanoparticles. <i>Journal of Electronic Materials</i> , 2016, 45, 3612-3620.	2.2	94
9	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.	2.2	93
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.	2.2	87
11	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.	2.2	87
12	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.	2.2	84
13	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.	2.2	83
14	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.	2.6	80
15	Ultrasound-assisted synthesis of YbVO ₄ nanostructure and YbVO ₄ /CuWO ₄ nanocomposites for enhanced photocatalytic degradation of organic dyes under visible light. <i>Ultrasonics Sonochemistry</i> , 2018, 43, 120-135.	8.2	77
16	Synthesis, characterization, and antibacterial activities of ZnLaFe ₂ O ₄ /NiTiO ₃ nanocomposite. <i>Journal of Molecular Structure</i> , 2017, 1139, 430-435.	3.6	76
17	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.	2.2	71
18	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.	2.2	71

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19	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.	4.8	71
20	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.	2.2	70
21	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.	3.6	68
22	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.	2.2	67
23	Five-component domino synthesis of tetrahydropyridines using hexagonal PbCr _x Fe _{12-2x} O ₁₉ as efficient magnetic nanocatalyst. <i>Research on Chemical Intermediates</i> , 2017, 43, 6155-6165.	2.7	67
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.	2.2	65
25	Controlling the synthesis SrMoO ₄ nanostructures and investigation its photocatalyst application. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 5758-5763.	2.2	64
26	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.	2.2	64
27	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.	7.9	62
28	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.	2.2	61
29	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.	2.2	61
30	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.	3.3	59
31	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.	2.2	59
32	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.	3.8	57
33	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.	2.2	56
34	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.	2.2	56
35	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.	2.2	56
36	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.	2.2	55

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37	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.	2.2	54
38	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.	2.2	54
39	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.	2.2	53
40	Preparation and Characterization of Magnetic Fe ₃ O ₄ /CdWO ₄ and Fe ₃ O ₄ /CdWO ₄ /PrVO ₄ Nanoparticles and Investigation of Their Photocatalytic and Anticancer Properties on PANC1 Cells. <i>Materials</i> , 2019, 12, 3274.	2.9	53
41	Silver nanofibers/ionic liquid nanocomposite based electrochemical sensor for detection of clonazepam via electrochemically amplified detection. <i>Microchemical Journal</i> , 2019, 145, 1185-1190.	4.5	53
42	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.	2.2	52
43	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.	2.2	51
44	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.	2.2	50
45	Sonochemical synthesis of terbium tungstate for developing high power supercapacitors with enhanced energy densities. <i>Ultrasonics Sonochemistry</i> , 2018, 45, 189-196.	8.2	50
46	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.	4.8	46
47	Preparation, characterization and investigation of sonophotocatalytic activity of thulium titanate/polyaniline nanocomposites in degradation of dyes. <i>Ultrasonics Sonochemistry</i> , 2019, 50, 46-58.	8.2	44
48	Specific fluorometric assay for direct determination of amikacin by molecularly imprinting polymer on high fluorescent g-C ₃ N ₄ quantum dots. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 214, 451-458.	3.9	43
49	Electrochemical determination of levodopa on a reduced graphene oxide paste electrode modified with a metal-organic framework. <i>Microchemical Journal</i> , 2020, 156, 104888.	4.5	39
50	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.	5.0	36
51	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.	1.6	33
52	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.	3.5	32
53	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.	2.2	31
54	Preparation of Fe ₃ O ₄ /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.	3.5	31

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55	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> , 2022, 136, 109107.	3.9	31
56	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.	2.2	27
57	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.	4.8	27
58	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.	2.3	25
59	Heterojunction of N/B/RGO and g-C ₃ N ₄ anchored magnetic ZnFe ₂ O ₄ @ZnO for promoting UV/Vis-induced photo-catalysis and in vitro toxicity studies. <i>Environmental Science and Pollution Research</i> , 2021, 28, 11430-11443.	5.3	25
60	The ZnFe ₂ O ₄ @mZnO-N/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.	2.8	25
61	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.	2.2	24
62	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.	2.2	22
63	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.	4.0	22
64	Synthesis and Supercapacitor Application of Cerium Tungstate Nanostructure. <i>ChemistrySelect</i> , 2019, 4, 2862-2867.	1.5	19
65	Adsorption of Cationic Dyes on a Magnetic 3D Spongin Scaffold with Nano-Sized Fe ₃ O ₄ Cores. <i>Marine Drugs</i> , 2021, 19, 512.	4.6	16
66	A modified sensitive carbon paste electrode for 5-fluorouracil based using a composite of praseodymium erbium tungstate. <i>Microchemical Journal</i> , 2020, 154, 104654.	4.5	15
67	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.	1.6	14
68	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.	3.6	13
69	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.	4.9	12
70	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.	2.2	12
71	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.	2.2	10
72	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.	2.2	10

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73	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. Journal of Materials Science: Materials in Electronics, 2021, 32, 26998-27013.	2.2	10
74	Synthesis of novel Fe ₃ O ₄ @SiO ₂ @Er ₂ TiO ₅ superparamagnetic core-shell and evaluation of their photocatalytic capacity. Journal of Materials Science: Materials in Electronics, 2020, 31, 10553-10563.	2.2	10
75	Experimental Study of the Thermal Properties of Microencapsulated Palmitic Acid Composites with CuCO ₃ Shell as Thermal Energy Storage Materials. ChemistrySelect, 2019, 4, 6501-6505.	1.5	8
76	Application of polysaccharide biopolymers as natural adsorbent in sample preparation. Critical Reviews in Food Science and Nutrition, 2023, 63, 2626-2653.	10.3	8
77	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.	2.2	7
78	Electrochemical monitoring of carbamazepine in biological fluids by a glassy carbon electrode modified with CuO/ZnFe ₂ O ₄ /rGO nanocomposite. Surfaces and Interfaces, 2022, 30, 101943.	3.0	7
79	Synthesis of some transition MWO ₄ (M: Mn, Fe, Co, Ni, Cu, Zn, Cd) nanostructures by hydrothermal method. Journal of Materials Science: Materials in Electronics, 2019, 30, 8105-8144.	2.2	6
80	Evaluation of the thermal properties of SrCO ₃ -microencapsulated palmitic acid composites as thermal energy storage materials. Journal of Thermal Analysis and Calorimetry, 2020, 140, 2123-2130.	3.6	6
81	Novel silver-doped NiTiO ₃ : auto-combustion synthesis, characterization and photovoltaic measurements. South African Journal of Chemistry, 2017, , .	0.6	5
82	Mn(VO ₃) ₂ 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.	0.9	0
83	Rare earth titanate ceramic nanomaterials. , 2022, , 135-173.		0