

Fabrication and characterization of Fe₃O₄@SiO₂@TiO₂ novel and highly efficient photocatalyst for degradation

Journal of Energy Chemistry

26, 17-23

DOI: 10.1016/j.jechem.2016.10.015

Citation Report

#	ARTICLE	IF	CITATIONS
1	Effect of Ag clusters doping on the photoluminescence, photocatalysis and magnetic properties of ZnO nanorods prepared by facile microwave-assisted hydrothermal synthesis. Journal of Materials Science: Materials in Electronics, 2017, 28, 11059-11069.	1.1	5
2	Advanced yolk-shell nanoparticles as nanoreactors for energy conversion. Chinese Journal of Catalysis, 2017, 38, 970-990.	6.9	50
3	Magnetically separable Fe ₃ O ₄ @SiO ₂ @TiO ₂ nanostructures supported by neodymium(III): fabrication and enhanced photocatalytic activity for degradation of organic pollution. Journal of Materials Science: Materials in Electronics, 2017, 28, 14271-14281.	1.1	33
4	Facile synthesis and characterization of CaWO ₄ nanoparticles using a new Schiff base as capping agent: enhanced photocatalytic degradation of methyl orange. Journal of Materials Science: Materials in Electronics, 2017, 28, 14833-14838.	1.1	30
5	Recyclable Fe ₃ O ₄ /SiO ₂ /TiO ₂ /Cu nanocomposites: synthesis, characterization and investigation of the photocatalytic and magnetic property. Journal of Materials Science: Materials in Electronics, 2017, 28, 9456-9463.	1.1	8
6	Green synthesis and characterization of Pr ³⁺ :CaWO ₄ nanostructures in the presence of maltose as a capping agent for photocatalytic degradation of rhodamine B. Journal of Materials Science: Materials in Electronics, 2017, 28, 17161-17167.	1.1	3
7	Green synthesis of magnetic Fe ₃ O ₄ /SiO ₂ /HAp nanocomposite for atenolol delivery and in vivo toxicity study. Journal of Cleaner Production, 2017, 168, 39-50.	4.6	79
8	Synthesis and characterization of visible-light-active mesoporous titania by doping Ni and N. Journal of Materials Science: Materials in Electronics, 2017, 28, 18164-18172.	1.1	4
9	Synthesis of tungsten nanoparticles by reverse micelle method. Journal of Molecular Liquids, 2017, 241, 897-903.	2.3	13
10	Sonochemical method for the preparation of magnetic nanoparticles employing green precursors and its composite with praseodymium(III) nanoparticles for photocatalytic degradation of rhodamine b. Journal of Materials Science: Materials in Electronics, 2018, 29, 5702-5709.	1.1	1
11	Enhanced aqueous adsorption and photodecomposition of anionic organic target by amino group-modified TiO ₂ as anionic adsorptive photocatalyst. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 356, 71-80.	2.0	5
12	The carbon quantum dots modified ZnO/TiO ₂ nanotube heterojunction and its visible light photocatalysis enhancement. Journal of Materials Science: Materials in Electronics, 2018, 29, 11449-11456.	1.1	16
13	Grafting of silver particles on FeTiO ₃ /TiO ₂ /Ag: synthesis and characterization of FeTiO ₃ /TiO ₂ nanoparticles in presence of CTAB and their application as photocatalyst. Journal of Materials Science: Materials in Electronics, 2018, 29, 10583-10592.	1.1	5
14	Fabrication, activity and mechanism studies of transition metal molybdate/molybdenum trioxide hybrids as novel CWAO catalysts. Separation and Purification Technology, 2018, 191, 354-363.	3.9	19
15	Normal spinel CdCr ₂ O ₄ and CdCr ₂ O ₄ /Ag nanocomposite as novel photocatalysts, for degradation of water contaminates. Separation and Purification Technology, 2018, 195, 37-49.	3.9	18
16	Small lanthanide-doped Sr ₂ YbF ₇ nanocrystals: Upconversion fluorescence and upconversion-driven photodegradation. Optical Materials, 2018, 86, 537-544.	1.7	3
17	Sol-Gel Synthesis of Ce ₄ Sr ₁ Fe ₅ Zn ₁₄ O ₆₄ [0.45] Superparamagnetic Oxide Systems and Its Magnetic, Dielectric, and Drug Delivery Properties. ACS Omega, 2018, 3, 16509-16518.	1.6	6
18	Covalent immobilization of coagulation factor VIII on magnetic nanoparticles for aptamer development. Journal of Applied Biomaterials and Functional Materials, 2018, 16, 161-170.	0.7	2

#	ARTICLE	IF	CITATIONS
19	Synthesis and characterization of Pd- Fe_2O_3 nanocomposite and its application as a magnetically recyclable catalyst in ligand-free Suzuki-Miyaura reaction in water. <i>Journal of Organometallic Chemistry</i> , 2018, 871, 96-102.	0.8	20
20	Core-shell structured titanium dioxide nanomaterials for solar energy utilization. <i>Chemical Society Reviews</i> , 2018, 47, 8203-8237.	18.7	258
21	Gold nanoparticles: From synthesis, properties to their potential application as colorimetric sensors in food safety screening. <i>Trends in Food Science and Technology</i> , 2018, 78, 83-94.	7.8	103
22	Magnetic infrared responsive photocatalyst: fabrication, characterization, and photocatalytic performance of $\text{NaYF}_4:\text{Yb}^{3+}, \text{Tm}^{3+}/\text{TiO}_2/\text{Fe}_3\text{O}_4@/\text{SiO}_2$ composite. <i>Research on Chemical Intermediates</i> , 2018, 44, 6369-6385.	1.3	7
23	Preparation and characterization of the magnetic $\text{Fe}_3\text{O}_4@/\text{TiO}_2$ nanocomposite with the in-situ synthesis coating method. <i>Materials Chemistry and Physics</i> , 2018, 216, 496-501.	2.0	24
24	Modified $\text{Fe}_3\text{O}_4/\text{HAp}$ Magnetically Nanoparticles as the Carrier for Ibuprofen: Adsorption and Release Study. <i>Drug Research</i> , 2019, 69, 93-99.	0.7	13
25	MgCr_2O_4 and $\text{MgCr}_2\text{O}_4/\text{Ag}$ nanostructures: Facile size-controlled synthesis and their photocatalytic performance for destruction of organic contaminants. <i>Composites Part B: Engineering</i> , 2019, 175, 107077.	5.9	25
26	Synthesis, crystal structures and electrochemical properties of ferrocenyl imidazole derivatives. <i>Heliyon</i> , 2019, 5, e02580.	1.4	4
27	ppb level triethylamine detection of yolk-shell $\text{SnO}_2/\text{Au}/\text{Fe}_2\text{O}_3$ nanoboxes at low-temperature. <i>Applied Surface Science</i> , 2019, 476, 391-401.	3.1	46
28	Nanostructured $\text{Fe}_2\text{O}_3@/\text{TiO}_2$ pigments with improved NIR reflectance and photocatalytic ability. <i>Materials Chemistry and Physics</i> , 2019, 235, 121769.	2.0	28
29	Modulating the photoelectrons of g-C $_3\text{N}_4$ via coupling MgTi_2O_5 as appropriate platform for visible-light-driven photocatalytic solar energy conversion. <i>Nano Research</i> , 2019, 12, 1931-1936.	5.8	42
30	Facile one-pot solvothermal method to synthesize solar active Bi_2WO_6 for photocatalytic degradation of organic dye. <i>Journal of Alloys and Compounds</i> , 2019, 801, 502-510.	2.8	67
31	Eco-friendly green synthesis and characterization of novel $\text{Fe}_3\text{O}_4/\text{SiO}_2/\text{Cu}_2\text{O}@/\text{Ag}$ nanocomposites using <i>Crataegus pentagyna</i> fruit extract for photocatalytic degradation of organic contaminants. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 10994-11004.	1.1	39
32	Synthesis of $\text{BiOI}/\text{ZnFe}_2\text{O}_4@/\text{Metal-Organic Framework and g-C}_3\text{N}_4$ -Based Nanocomposites for Applications in Photocatalysis. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 9806-9818.	1.8	39
33	Compositional optimization of high induction (>1.7T) FeCo-based nanocomposite alloys with enhancement of thermo-physical and magnetic properties. <i>Physica B: Condensed Matter</i> , 2019, 566, 71-76.	1.3	5
34	Selective adsorption of methylene blue (MB) dye from aqueous mixture of MB and methyl orange (MO) using mesoporous titania (TiO_2) poly vinyl alcohol (PVA) nanocomposite. <i>Journal of Molecular Liquids</i> , 2019, 286, 110908.	2.3	88
35	Preparation of antistatic epoxy resin by functionalization of MWCNTs with Fe_3O_4 -modified polyaniline under a magnetic field. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	5
36	Simple microwave synthesis of $\text{TiO}_2/\text{NiS}_2$ nanocomposite and $\text{TiO}_2/\text{NiS}_2/\text{Cu}$ nanocomposite as an efficient visible driven photocatalyst. <i>Ceramics International</i> , 2019, 45, 14167-14172.	2.3	17

#	ARTICLE	IF	CITATIONS
37	Synthesis of multilayered micro flower NiCo ₂ O ₄ /GN/Fe ₃ O ₄ composite for enhanced electromagnetic microwave (EM) absorption performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 8864-8875.	1.1	15
38	Evaluating the efficiency of the GO@Fe ₃ O ₄ /TiO ₂ mesoporous photocatalyst for degradation of chlorpyrifos pesticide under visible light irradiation. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4813.	1.7	34
39	Carbon dioxide plasma treated PVDF electrospun membrane for the removal of crystal violet dyes and iron oxide nanoparticles from water. <i>Nano Structures Nano Objects</i> , 2019, 18, 100268.	1.9	41
40	Structural, dielectric and impedance properties of lead-free Bi(Sr _{0.5} Ti _{0.5})O ₃ ceramic. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 243, 30-37.	1.7	24
41	Magnetic and self-healing chitosan-alginate hydrogel encapsulated gelatin microspheres via covalent cross-linking for drug delivery. <i>Materials Science and Engineering C</i> , 2019, 101, 619-629.	3.8	149
42	Green synthesis of zinc ferrite nanoparticles in Limonia acidissima juice: Characterization and their application as photocatalytic and antibacterial activities. <i>Microchemical Journal</i> , 2019, 146, 1227-1235.	2.3	135
43	Solvothermal synthesis, characterization and magnetic properties of nearly superparamagnetic Zn-doped Fe ₃ O ₄ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3177-3185.	1.1	10
44	Microstructure and Electromagnetic Properties of Y ³⁺ Substituted Mg-Mn Nanocrystalline Ferrites Via Hydrothermal Procedure. <i>Nano</i> , 2019, 14, 1950021.	0.5	1
45	Self-carried AIE nanoparticles for in vitro non-invasive long-term imaging. <i>Chinese Chemical Letters</i> , 2019, 30, 1078-1082.	4.8	19
46	Magnetic core-shell nanocatalysts: promising versatile catalysts for organic and photocatalytic reactions. <i>Catalysis Reviews - Science and Engineering</i> , 2020, 62, 163-311.	5.7	28
47	Microstructure and electromagnetic properties of Nd ³⁺ -substituted Mg-Mn nanocrystalline ferrites via hydrothermal procedure. <i>Materials Technology</i> , 2020, 35, 372-382.	1.5	2
48	Stable Ag ₂ O/g-C ₃ N ₄ p-n heterojunction photocatalysts for efficient inactivation of harmful algae under visible light. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118610.	10.8	128
49	Super porous TiO ₂ photocatalyst: Tailoring the agglomerate porosity into robust structural mesoporosity with enhanced surface area for efficient remediation of azo dye polluted waste water. <i>Journal of Environmental Management</i> , 2020, 258, 110029.	3.8	54
50	Assessment of zinc ferrite nanocrystals for removal of ¹³⁴ Cs and ¹⁵²⁺¹⁵⁴ Eu radionuclides from nitric acid solution. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 1616-1633.	1.1	28
51	New hydrothermal synthesis strategy of nano-sized BiFeO ₃ for high-efficient photocatalytic applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 118, 113865.	1.3	19
52	Magnetically retrievable Bi ₂ WO ₆ /Fe ₃ O ₄ /Na-MMT composite: fabrication and photocatalytic activity. <i>Research on Chemical Intermediates</i> , 2020, 46, 4579-4593.	1.3	12
53	Mesoporous Fe ₃ O ₄ @SiO ₂ -hydroxyapatite nanocomposite: Green sonochemical synthesis using strawberry fruit extract as a capping agent, characterization and their application in sulfasalazine delivery and cytotoxicity. <i>Journal of Hazardous Materials</i> , 2020, 400, 123140.	6.5	84
54	An efficient removal of methylene blue dye by adsorption onto carbon dot @ zinc peroxide embedded poly vinyl alcohol (PVA/CZnO ₂) nano-composite: A novel Reusable adsorbent. <i>Polymer</i> , 2020, 202, 122565.	1.8	70

#	ARTICLE	IF	CITATIONS
55	A review on classifications, recent synthesis and applications of textile dyes. <i>Inorganic Chemistry Communication</i> , 2020, 115, 107891.	1.8	406
56	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.	1.6	31
57	Combination of TiO ₂ microreactor and electroflotation for organic pollutant removal from textile dyeing industry wastewater. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 549-563.	3.4	35
58	Flash photo-reduction method to enhance hydrogen photogeneration on Pd@TiO ₂ . <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020, 15, e2432.	0.8	0
59	Facile and eco-benign synthesis of a novel MnFe ₂ O ₄ @SiO ₂ @Au magnetic nanocomposite with antibacterial properties and enhanced photocatalytic activity under UV and visible light irradiations. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5614.	1.7	34
60	Photodegradation of Butyl 4-Hydroxybenzoate in the Presence of Peroxides and Mediated by Dissolved Organic Matter. <i>Environmental Engineering Science</i> , 2020, 37, 497-508.	0.8	3
61	Role of titanium dioxide (TiO ₂) structural design/morphology in photocatalytic air purification. <i>Applied Catalysis B: Environmental</i> , 2020, 269, 118735.	10.8	102
62	Comparative study on the physical properties of rare-earth-substituted nano-sized CoFe ₂ O ₄ . <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	45
63	Novel NiFe/Si/Au magnetic nanocatalyst: Biogenic synthesis, efficient and reusable catalyst with enhanced visible light photocatalytic degradation and antibacterial activity. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5467.	1.7	18
64	Freshwater production via efficient oil-water separation and solar-assisted water evaporation using black titanium oxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2020, 566, 183-193.	5.0	37
65	Photocatalytic reduction of uranium(VI) by magnetic ZnFe ₂ O ₄ under visible light. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118688.	10.8	170
66	Smart pathways for the photocatalytic degradation of sulfamethoxazole drug using F-Pd co-doped TiO ₂ nanocomposites. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118716.	10.8	95
67	Well organized assembly of (X)- CuSnO ₃ nanoparticles enhanced photocatalytic and anti-bacterial properties. <i>Journal of Water Process Engineering</i> , 2020, 36, 101258.	2.6	10
68	Historical development and prospects of photocatalysts for pollutant removal in water. <i>Journal of Hazardous Materials</i> , 2020, 395, 122599.	6.5	245
69	Photocatalytic degradation of levofloxacin by a novel Sm ₆ WO ₁₂ /g-C ₃ N ₄ heterojunction: Performance, mechanism and degradation pathways. <i>Separation and Purification Technology</i> , 2021, 257, 117985.	3.9	76
70	Synergistic catalysis of Fe ₃ O ₄ /CuO bimetallic catalyst derived from Prussian blue analogues for the efficient decomposition of various organic pollutants. <i>Chemical Physics</i> , 2021, 540, 110974.	0.9	38
71	Effect of operating conditions on the chemical composition, morphology, and nano-structure of particulate emissions in a light hydrocarbon premixed charge compression ignition (PCCI) engine. <i>Science of the Total Environment</i> , 2021, 750, 141716.	3.9	14
72	Study of the effect of ion irradiation on increasing the photocatalytic activity of WO ₃ microparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 3863-3877.	1.1	79

#	ARTICLE	IF	CITATIONS
73	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.	1.1	10
74	<i>In vitro</i> study of alginate-gelatin scaffolds incorporated with silica NPs as injectable, biodegradable hydrogels. <i>RSC Advances</i> , 2021, 11, 16688-16697.	1.7	29
75	Synthesis of P.WFe / NiO nanocomposite as an efficient and heterogeneous green nanocatalyst for catalytic oxidative extractive desulfurization of gasoline. <i>Environmental Progress and Sustainable Energy</i> , 2021, 40, e13616.	1.3	3
76	Review on the advancements of magnetic gels: towards multifunctional magnetic liposome-hydrogel composites for biomedical applications. <i>Advances in Colloid and Interface Science</i> , 2021, 288, 102351.	7.0	35
77	The effect of Cu/In molar ratio on the analysis and characterization of CuInS ₂ nanostructures. <i>Emergent Materials</i> , 2021, 4, 413-422.	3.2	4
78	Bismuth vanadate/MXene (BiVO ₄ /Ti ₃ C ₂) heterojunction composite: enhanced interfacial control charge transfer for highly efficient visible light photocatalytic activity. <i>Environmental Science and Pollution Research</i> , 2021, 28, 35911-35923.	2.7	23
79	Green synthesis of tin dioxide nanoparticles using <i>Camellia sinensis</i> and its application in photocatalytic degradation of textile dyes. <i>Optik</i> , 2021, 229, 166259.	1.4	34
80	Synthesis of Au/UiO-66-NH ₂ /Graphene composites as efficient visible-light photocatalysts to convert CO ₂ . <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11621-11635.	3.8	29
81	Adsorption Mechanism and Electrochemical Properties of Methyl Blue onto Magnetic CoxCu(1-x)Fe ₂ O ₄ Nanoparticles Prepared via an Alcohol Solution of Nitrate Combustion and Calcination Process. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 3584-3594.	1.9	16
82	Synthesis, microstructure analysis, electrical and magnetic properties of Ni _{0.5} Mg _{0.5} Fe ₂ O ₄ / BaTiO ₃ Nano-composites. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	8
83	Ultrasonic-assisted synthesis of NiCo ₂ O ₄ /TiO ₂ ceramic as an efficient and novel hydrogen storage material. <i>Journal of the Iranian Chemical Society</i> , 2021, 18, 2613-2623.	1.2	2
84	Modelling of size-dependent thermodynamic properties of metallic nanocrystals based on modified Gibbs-Thomson equation. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	8
85	Microwave-assisted cross-coupling synthesis of aryl functionalized MWCNTs and investigation of hydrogen storage properties. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2021, 29, 899-906.	1.0	6
86	Photocatalytic and biomedical investigation of green synthesized NiONPs: Toxicities and degradation pathways of Congo red dye. <i>Surfaces and Interfaces</i> , 2021, 23, 100944.	1.5	14
87	The Application of Encapsulated Trinuclear Cobalt Cluster Complex in Y Zeolite in the One-Pot Multi-Component Synthesis of Spiro Indoline Derivatives. <i>Journal of Cluster Science</i> , 2022, 33, 1387-1397.	1.7	3
89	Polyethyleneimine-functionalized Fe ₃ O ₄ /attapulgite particles for hydrophilic interaction-based magnetic dispersive solid-phase extraction of fluoroquinolones in chicken muscle. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 3529-3540.	1.9	11
90	Magnetic anisotropy and photoluminescence properties of amorphous CexFeyO _n nanowire arrays. <i>Functional Materials Letters</i> , 2021, 14, 2151016.	0.7	0
91	Nanomaterials significance; contaminants degradation for environmental applications. <i>Nano Express</i> , 2021, 2, 022002.	1.2	2

#	ARTICLE	IF	CITATIONS
92	Facile synthesis of novel zinc sulfide/chitosan composite for efficient photocatalytic degradation of acid brown 5G and acid black 2BNG dyes. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 2167-2178.	3.4	26
93	Effect of the toluene content on the preparation of $Mg(Al,Y)_{2}O_{4}:Cr^{3+}$ nanopowders by Pechini-type hydrothermal process. <i>Nano Structures Nano Objects</i> , 2021, 26, 100752.	1.9	0
94	Tungsten(VI) oxide supported rhodium(0) nanoparticles; highly efficient catalyst for H ₂ production from dimethylamine borane. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 17763-17775.	3.8	8
95	Triethanolamine assisted sol-gel approach for obtaining two-dimensional magnesium aluminate nanosheets. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2021, 52, 578-584.	0.5	1
96	CuO-ZnO-CdWO ₄ : a sustainable and environmentally benign photocatalytic system for water cleansing. <i>Environmental Science and Pollution Research</i> , 2021, 28, 53793-53803.	2.7	11
97	Study of radiation resistance to helium swelling of AlN ceramics in case of irradiation with low-energy He ²⁺ ions with energy of 40 ÅkeV. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 14347-14357.	1.1	4
98	Hydrolytic Modification of SiO ₂ Microspheres with Na ₂ SiO ₃ and the Performance of Supported Nano-TiO ₂ Composite Photocatalyst. <i>Materials</i> , 2021, 14, 2553.	1.3	4
99	Utility of a novel optical sensor design for ultra-trace detection of chromium colorimetrically in real environmental samples. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 4031-4048.	1.8	5
100	The microstructure and magnetic properties of FeCo alloys with different OH ⁻ /(Co ²⁺ , Fe ²⁺) ratio and annealing temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 14156-14163.	1.1	0
101	Enhanced photocatalytic activity of efficient magnetically recyclable core-shell nanocomposites on 2,2,4,4,5,5-hexachlorobiphenyl (PCB 153) degradation under UV-LED irradiation. <i>Environmental Science and Pollution Research</i> , 2021, 28, 54679-54694.	2.7	2
102	Structural, magnetic and magnetocaloric study of Sm ₂ Fe _{17-x} Ni _x (x=0, 0.25, 0.35 and 0.5) compounds. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	3
103	Phase transformations in FeCo-Fe ₂ CoO ₄ /Co ₃ O ₄ -spinel nanostructures as a result of thermal annealing and their practical application. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 16694-16705.	1.1	232
104	Removal of triclosan from water by sepiolite supported bimetallic Fe/Ni nanoparticles. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 3319-3328.	1.2	5
105	The characterization of ZnO nanoparticles by applying x-ray diffraction and different methods of peak profile analysis. <i>Physica Scripta</i> , 2021, 96, 095704.	1.2	2
106	Ferroelectric, dielectric, magnetic, structural and photocatalytic properties of Co and Fe doped LaCrO ₃ perovskite synthesized via micro-emulsion route. <i>Ceramics International</i> , 2021, 47, 16696-16707.	2.3	41
107	Development and comparison of immunochromatographic strips with four nanomaterial labels: Colloidal gold, new colloidal gold, multi-branched gold nanoflowers and Luminol-reduced Au nanoparticles for visual detection of <i>Vibrio parahaemolyticus</i> in seafood. <i>Aquaculture</i> , 2021, 539, 736563.	1.7	14
108	Therapeutic effect of cold atmospheric plasma and its combination with radiation as a novel approach on inhibiting cervical cancer cell growth (HeLa cells). <i>Bioorganic Chemistry</i> , 2021, 111, 104892.	2.0	10
109	Study of structural, magnetic and optical properties of oxygen plasma-treated manganese-doped iron oxide photocatalyst for wastewater treatment. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	5

#	ARTICLE	IF	CITATIONS
110	Preparation of Ag ₂ O nano structures by combustion method and investigation of photocatalytic activity. International Journal of Applied Ceramic Technology, 2021, 18, 2064-2074.	1.1	6
111	Photocatalytic and photoluminescence properties of CePO ₄ nanostructures prepared by coprecipitation method and thermal treatment. Optik, 2021, 238, 166683.	1.4	16
112	Phyto-reflexive Zinc Oxide Nano-Flowers synthesis: An advanced photocatalytic degradation and infectious therapy. Journal of Materials Research and Technology, 2021, 13, 2375-2391.	2.6	53
113	Study of the radiation disordering mechanisms of AlN ceramic structure as a result of helium swelling. Journal of Materials Science: Materials in Electronics, 2021, 32, 21658-21669.	1.1	8
114	Critical review on microfibrinous composites for applications in chemical engineering. Reviews in Chemical Engineering, 2021, .	2.3	1
115	Constructing CuBi ₂ O ₄ /Ag ₃ PO ₄ Photocatalyst with Improved Photocatalytic Performance for the Degradation of Tetracycline under Visible Light Irradiation. ChemistrySelect, 2021, 6, 7062-7067.	0.7	3
116	Chitosan nanoparticles functionalized poly(2-hydroxyaniline) supported CuO nanoparticles: An efficient heterogeneous and recyclable nanocatalyst for N-arylation of amines with phenylboronic acid at ambient temperature. Applied Organometallic Chemistry, 2021, 35, e6364.	1.7	9
117	Sonochemical Preparation of Inorganic Nanoparticles and Nanocomposites for Drug Release—A Review. Industrial & Engineering Chemistry Research, 2021, 60, 10011-10032.	1.8	10
118	A Facile Preparation of Zinc Cobaltite (ZnCo ₂ O ₄) Nanostructures for Promising Supercapacitor Applications. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 3905-3920.	1.9	15
119	Template-free synthesis of 1D hollow Fe doped CoP nanoneedles as highly activity electrocatalysts for overall water splitting. International Journal of Hydrogen Energy, 2021, 46, 28053-28063.	3.8	18
120	Effect of blending manner on composition and photocatalytic performance of Ag/Ag ₃ PO ₄ /Ag ₄ P ₂ O ₇ composites via an in-situ reduction-precipitation route. Inorganic Chemistry Communication, 2021, 130, 108675.	1.8	4
121	Green synthesis of microalgal biomass-silver nanoparticle composite showing antimicrobial activity and heterogenous catalysis of nitrophenol reduction. Biomass Conversion and Biorefinery, 2023, 13, 7783-7795.	2.9	4
122	Photocatalytic degradation of 2,4-DNT in simulated wastewater by magnetic CoFe ₂ O ₄ /SiO ₂ /TiO ₂ nanoparticles. Environmental Science and Pollution Research, 2022, 29, 6479-6490.	2.7	6
123	Simultaneous Methylene Blue Adsorption and pH Neutralization of Contaminated Water by Rice Husk Ash. ACS Omega, 2021, 6, 21604-21612.	1.6	16
124	Effects of synthesis parameters on the properties and photocatalytic activity of the magnetic catalyst TiO ₂ /CoFe ₂ O ₄ applied to selenium photoreduction. Journal of Water Process Engineering, 2021, 42, 102163.	2.6	18
125	Magnetically Recoverable and Reusable Titanium Dioxide Nanocomposite for Water Disinfection. Journal of Marine Science and Engineering, 2021, 9, 943.	1.2	4
126	Cobalt-benzene-1,4-dicarboxylic acid coordination polymer for efficient removal of anionic and cationic dyes. Journal of Coordination Chemistry, 2021, 74, 2163-2173.	0.8	3
127	Eco-friendly green synthesis of ZnO/GQD nanocomposites using Protopermaliopsis muralis extract for their antibacterial and antibiofilm activity. Journal of Molecular Liquids, 2021, 335, 116195.	2.3	34

#	ARTICLE	IF	CITATIONS
128	A Comparative Study of Nanostructures of CuO/Cu ₂ O Fabricated via Potentiostatic and Galvanostatic Anodization. <i>Journal of Nanomaterials</i> , 2021, 2021, 1-8.	1.5	2
129	Cu-Zn bimetal ZIFs derived nanowhisker zero-valent copper decorated ZnO nanocomposites induced oxygen activation for high-efficiency iodide elimination. <i>Journal of Hazardous Materials</i> , 2021, 416, 126097.	6.5	25
130	Sonochemical synthesis and characterization of PrVO ₄ /CdO nanocomposite and their application as photocatalysts for removal of organic dyes in water. <i>Journal of Molecular Liquids</i> , 2021, 336, 116339.	2.3	33
131	Flax seeds based magnetic hybrid nanocomposite: An advance and sustainable material for water cleansing. <i>Journal of Water Process Engineering</i> , 2021, 42, 102150.	2.6	38
132	Formation of non-centrosymmetric covalent bonds due to the substitution of cobalt contents in M-type barium hexa-ferrites BaFe(12-x)O ₁₉ . <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	0
133	Synergetic photocatalytic-activity enhancement of lanthanum doped TiO ₂ on halloysite nanocomposites for degradation of organic dye. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 100, 126-133.	2.9	26
134	Synthesis, characterization and application of Co/Co ₃ O ₄ nanocomposites as an effective photocatalyst for discoloration of organic dye contaminants in wastewater and antibacterial properties. <i>Journal of Molecular Liquids</i> , 2021, 337, 116405.	2.3	553
135	Fabrication of GO-TiO ₂ /(Ca,Y)F ₂ :Tm,Yb composites with high-efficiency optical driving photocatalytic activity for degradation of organic dyes and bacteriostasis. <i>Rare Metals</i> , 2022, 41, 650-662.	3.6	18
136	Novel rare earth metal doped one-dimensional TiO ₂ nanostructures: Fundamentals and multifunctional applications. <i>Materials Today Sustainability</i> , 2021, 13, 100066.	1.9	66
137	The Effect of Calcium Perovskite and Newly Developed Magnetic CaFe ₂ O ₄ /CaTiO ₃ Perovskite Nanocomposite on Degradation of Toxic Dyes Under UV-Visible Radiation. <i>Journal of Cluster Science</i> , 0, 1.	1.7	0
138	Application of polysaccharide biopolymers as natural adsorbent in sample preparation. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 2626-2653.	5.4	8
139	Bionanocomposite of Au decorated MnO ₂ via in situ green synthesis route and antimicrobial activity evaluation. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103415.	2.3	26
140	Superior degradation of organic pollutants and H ₂ O ₂ generation ability on environmentally-sound constructed Fe ₃ O ₄ -Cu nanocomposite. <i>Journal of Materials Research and Technology</i> , 2021, 14, 808-821.	2.6	17
141	Synthesis and characterization of magnetic nanoparticles functionalized with different starch types. <i>Particulate Science and Technology</i> , 2022, 40, 521-530.	1.1	4
142	Molecular dynamic (MD) simulation and electrochemical assessments of the Satureja Hortensis extract for the construction of effective zinc-based protective film on carbon steel. <i>Journal of Molecular Liquids</i> , 2021, 338, 116606.	2.3	10
143	Tribological and corrosion behavior of electrochemically deposited Co/TiO ₂ micro/nano-composite coatings. <i>Surface and Coatings Technology</i> , 2021, 423, 127591.	2.2	16
144	Novel manganese carbon quantum dots as a nano-probe: Facile synthesis, characterization and their application in naproxen delivery (Mn/CQD/SiO ₂ @naproxen). <i>Bioorganic Chemistry</i> , 2021, 115, 105211.	2.0	13
145	Incorporation of one or dual Brønsted acidic sites within the mesopores of MCM-41: Synthesis and catalytic activity in acetalization reaction. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 157, 110220.	1.9	4

#	ARTICLE	IF	CITATIONS
146	Insight into the enhanced magnetic separation and photocatalytic activity of Sn-doped TiO ₂ core-shell photocatalyst. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105840.	3.3	5
147	Gamma-ray induced thermoluminescence emission of green synthesized zinc oxide nanophosphors. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100153.	1.3	0
148	Corrosion trend on Q450 weathering steel deposited with Na ₂ SO ₄ , NaCl under ultraviolet light illumination. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 102, 206-217.	2.9	7
149	Novel Dy ₂ O ₃ /ZnO-Au ternary nanocomposites: Green synthesis using pomegranate fruit extract, characterization and their photocatalytic and antibacterial properties. <i>Bioorganic Chemistry</i> , 2021, 115, 105204.	2.0	35
150	Preparation and characterization of the Cu, Fe co-doped Bi ₂ Ti ₂ O ₇ /EG-g-C ₃ N ₄ material for organic model pollutants removal under direct sun light irradiation. <i>Materials Research Bulletin</i> , 2021, 143, 111439.	2.7	11
151	High entropy nanoparticles of CoCrXFeNi (X=Al, Cu, Mn) loaded on activated carbon for efficient degradation of methylene blue. <i>Journal of Materials Research and Technology</i> , 2021, 15, 256-267.	2.6	7
152	The zinc vacancy induced CdS/ZnS Z-scheme structure as a highly stable photocatalyst for hydrogen production. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161620.	2.8	32
153	Nanocomposites of zero-valent iron@biochar derived from agricultural wastes for adsorptive removal of tetracyclines. <i>Chemosphere</i> , 2021, 284, 131342.	4.2	37
154	Facile preparation of bismuth vanadate-sheet/carbon nitride rod-like interface photocatalyst for efficient degradation of model organic pollutant under direct sunlight irradiation. <i>Chemosphere</i> , 2022, 287, 132055.	4.2	14
155	Constructed wetland: a promising technology for the treatment of hazardous textile dyes and effluent. , 2022, , 173-198.		13
156	Influence of Nano Silica on Mechanical and Tribological Properties of Additive Manufactured PLA Bio Nanocomposite. <i>Silicon</i> , 2022, 14, 703-709.	1.8	17
157	Hybridization of g-C ₃ N ₄ quantum dots with 1D branched TiO ₂ fiber for efficient visible light-driven photocatalytic hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 13994-14005.	3.8	18
158	Comparative analysis of platinum nanoparticles synthesized using sonochemical-assisted and conventional green methods. <i>Nano Structures Nano Objects</i> , 2020, 23, 100484.	1.9	40
159	Recovery of platinum group metals using magnetic nanoparticles modified with ionic liquids. <i>Separation and Purification Technology</i> , 2020, 248, 117049.	3.9	21
160	Chelating agent size effect on thermal decomposition, phase formation and morphology characteristics of Y ³⁺ doped Ba(Ce,Zr)O ₃ ceramics powder prepared by a sol-gel process. <i>Ceramics International</i> , 2022, 48, 2289-2297.	2.3	8
161	Tuning of the surface structure of silver nanoparticles using Gum arabic for enhanced electrocatalytic oxidation of morin. <i>Applied Surface Science Advances</i> , 2021, 6, 100181.	2.9	13
162	Synthesis of highly efficient and magnetically separable Fe ₃ O ₄ @C-TiO ₂ -Ag catalyst for the reduction of organic dyes and 4-nitrophenol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 631, 127694.	2.3	24
163	Synthesis of porous chlorophyll coated SiO ₂ /Fe ₃ O ₄ nanocomposites for the photocatalytic degradation of organic pollutants. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2022, 135, 555-570.	0.8	5

#	ARTICLE	IF	CITATIONS
164	Injectable and biodegradable double-network nanocomposite hydrogel with regulable sol-gel transition process and mechanical properties. <i>Polymer Testing</i> , 2022, 106, 107452.	2.3	12
165	Fabrication of monoBODIPY-functionalized Fe ₃ O ₄ @SiO ₂ @TiO ₂ nanoparticles for the photocatalytic degradation of rhodamine B under UV irradiation and the detection and removal of Cu(II) ions in aqueous solutions. <i>Journal of Alloys and Compounds</i> , 2022, 899, 163360.	2.8	34
166	Opto-electrochemical characteristics of synthesized BaFe ₂ O ₄ nanocomposites: Photocatalytic degradation and hydrogen generation investigation. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 12039-12051.	3.8	12
167	Photothermal enhancement of highly efficient photocatalysis with bioinspired thermal radiation balance characteristics. <i>Applied Surface Science</i> , 2022, 592, 153304.	3.1	18
168	A novel route to the synthesis of Fe ₃ O ₄ @C@SiO ₂ /TiO ₂ nanocomposite from the metal-organic framework as a photocatalyst for water treatment. <i>Chemosphere</i> , 2022, 297, 133992.	4.2	31
169	Green synthesis of ZnO/eggshell nanocomposite using <i>ferulago macrocarpa</i> extract and its photocatalytic and antimicrobial activity in water disinfection. <i>Inorganic and Nano-Metal Chemistry</i> , 0, , 1-12.	0.9	0
170	Structural, morphological, optical properties of Zr- doped Co ₃ O ₄ nanoparticles. <i>Particulate Science and Technology</i> , 2022, 40, 662-674.	1.1	3
171	Techno-economic studies for a pilot-scale Bi ₁₂ TiO ₂₀ based photocatalytic system for pharmaceutical wastewater treatment: From laboratory studies to commercial-scale applications. <i>Journal of Water Process Engineering</i> , 2022, 48, 102847.	2.6	24
172	Photocatalytic Applications of Magnetic Hybrid Nanoalloys and Their Nanocomposites. , 2022, , 1-33.		2
173	Visible-Light Photoelectrocatalysis/H ₂ O ₂ Synergistic Degradation of Organic Pollutants by Magnetic Fe ₃ O ₄ @SiO ₂ @Mesoporous TiO ₂ Catalyst-Loaded Photoelectrode. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
174	Metrology and nanometrology at agricultur-al/food/nutraceutical interface: an updated shot. <i>Current Bioactive Compounds</i> , 2022, 18, .	0.2	0
175	Photocatalytic activity and radiation-attenuation ability of copper ions surface-doped dysprosium oxide. <i>Journal of Materials Science: Materials in Electronics</i> , 0, , .	1.1	1
176	Better Choice for a Polyimide Photocatalyst: Planar or Stereo Crosslinked Structures?. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 8752-8762.	1.8	6
177	Engineered magnetic cobalt/hydroxyapatite core-shell nanostructure: Toward high peroxymonosulfate activation via radical and non-radical mechanisms. <i>Applied Catalysis A: General</i> , 2022, 646, 118870.	2.2	5
178	Fabrication and photocatalytic activity of Fe ₃ O ₄ /SiO ₂ /TiO ₂ magnetic nanoparticles removing MTBE from simulated water. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-14.	1.8	1
179	Photocatalytic Applications of Magnetic Hybrid Nanoalloys and Their Nanocomposites. , 2022, , 1193-1224.		0
180	Recent methods in the production of activated carbon from date palm residues for the adsorption of textile dyes: A review. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	10
181	Hybrid Magnetic-Semiconductor Oxides Nanomaterial: Green Synthesis and Environmental Catalytic. , 0, , .		0

#	ARTICLE	IF	CITATIONS
182	Comparative synthesis and characterization of nanocomposites using chemical and green approaches including a comparison study on <i>in vivo</i> and <i>in vitro</i> biological properties. <i>Nanoscale Advances</i> , 2023, 5, 767-785.	2.2	3
183	Core-shell catalysts for the elimination of organic contaminants in aqueous solution: A review. <i>Chemical Engineering Journal</i> , 2023, 455, 140604.	6.6	9
184	Recent Advances and Perspectives of Core-Shell Nanostructured Materials for Photocatalytic CO ₂ Reduction. <i>Small</i> , 2023, 19, .	5.2	20
185	Facile synthesis of carbon dots via pyrolysis and their application in photocatalytic degradation of rhodamine B (RhB). <i>Environmental Science and Pollution Research</i> , 0, , .	2.7	5
186	Preparation and characterization of Zr-containing silica residue purification loaded nano-TiO ₂ composite photocatalysts. <i>Chemical Physics</i> , 2023, 570, 111889.	0.9	3
187	Synergistic pollutant degradation by Ag ₃ PO ₄ /Fe ₃ O ₄ /graphene oxide visible light-persulfate coupled system: Mechanism elucidation and performance optimization. <i>Catalysis Communications</i> , 2023, 177, 106643.	1.6	2
188	Trends in the synthesis and application of some reactive dyes: A review. , 2023, 2, 14-29.		4
192	Response surface methodology: a powerful tool for optimizing the synthesis of metal sulfide nanoparticles for dye degradation. <i>Materials Advances</i> , 2023, 4, 5094-5125.	2.6	3
196	A review: photocatalytic degradation of dyes by metal sulfide nanoparticles. <i>Brazilian Journal of Chemical Engineering</i> , 0, , .	0.7	0