Band-gap determination from diffuse reflectance measure and application to photoelectrochemical water-splitting

Solar Energy Materials and Solar Cells 91, 1326-1337 DOI: 10.1016/j.solmat.2007.05.005

Citation Report

#	Article	IF	CITATIONS
2	Appropriate strategies for determining the photoconversion efficiency of water photoelectrolysis cells: A review with examples using titania nanotube array photoanodes. Solar Energy Materials and Solar Cells, 2008, 92, 374-384.	3.0	205
3	Thermoelectrical and optical properties of double wall carbon nanotubes:polyaniline containing boron nâ€ŧype organic semiconductors. Polymers for Advanced Technologies, 2008, 19, 905-908.	1.6	14
4	Influence of calcining temperature on photoresponse of TiO2 film under nitrogen and oxygen in room temperature. Sensors and Actuators B: Chemical, 2008, 134, 718-726.	4.0	17
5	Does carbon doping of TiO2 allow water splitting in visible light? Comments on "Nanotube enhanced photoresponse of carbon modified (CM)-n-TiO2 for efficient water splitting― Solar Energy Materials and Solar Cells, 2008, 92, 363-367.	3.0	65
6	A novel biomaterial — Fe3O4:TiO2 core-shell nano particle with magnetic performance and high visible light photocatalytic activity. Optical Materials, 2008, 31, 380-384.	1.7	150
7	Metal oxide photoanodes for solar hydrogen production. Journal of Materials Chemistry, 2008, 18, 2298.	6.7	460
8	Visible light degradation of Orange II using xCuyOz/TiO2 heterojunctions. Journal of Hazardous Materials, 2009, 168, 484-492.	6.5	72
9	Influence of Cr on structural and optical properties of TiO2:Cr nanopowders prepared by flame spray synthesis. Journal of Power Sources, 2009, 194, 104-111.	4.0	49
10	Photocatalytic H2 evolution over basic zincoxysulfide (ZnS1â^'xâ^'0.5yOx(OH)y) under visible light irradiation. Applied Catalysis A: General, 2009, 363, 180-187.	2.2	44
11	Development of copper-doped TiO2 photocatalyst for hydrogen production under visible light. Energy, 2009, 34, 1652-1661.	4.5	362
12	Photoeletrochemical generation of hydrogen over carbon-doped TiO2 photoanode. Applied Catalysis B: Environmental, 2009, 92, 41-49.	10.8	55
13	Recent Advances in the Use of TiO ₂ Nanotube and Nanowire Arrays for Oxidative Photoelectrochemistry. Journal of Physical Chemistry C, 2009, 113, 6327-6359.	1.5	776
14	Comparison of Size-Dependent Structural and Electronic Properties of Anatase and Rutile Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 6367-6380.	1.5	83
15	Phenol Adsorption and Photo-Oxidation on Porous Carbon/Titania Composites. Adsorption Science and Technology, 2010, 28, 727-738.	1.5	16
16	Improvedâ€Performance Dyeâ€5ensitized Solar Cells Using Nbâ€Doped TiO ₂ Electrodes: Efficient Electron Injection and Transfer. Advanced Functional Materials, 2010, 20, 509-515.	7.8	512
17	Synthesis and characterisation of Fe–V–O thin film photoanodes. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 216, 209-214.	2.0	46
18	Enhancement of photocatalytic oxidation of oxalic acid by gold modified WO3/TiO2 photocatalysts under UV and visible light irradiation. Journal of Molecular Catalysis A, 2010, 327, 51-57.	4.8	131
19	Determination of the band gap of TiO2–Al2O3 films as a function of processing parameters. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 71-73.	1.7	37

#	Article	IF	CITATIONS
20	Synchronous role of coupled adsorption and photocatalytic oxidation on ordered mesoporous anatase TiO2–SiO2 nanocomposites generating excellent degradation activity of RhB dye. Applied Catalysis B: Environmental, 2010, 95, 197-207.	10.8	152
21	Stability and dynamics of carbon and nitrogen dopants in anataseTiO2: A density functional theory study. Physical Review B, 2010, 81, .	1.1	41
22	Graphene/TiO2 nanocomposites: synthesis, characterization and application in hydrogen evolution from water photocatalytic splitting. Journal of Materials Chemistry, 2010, 20, 2801.	6.7	999
23	Photoelectrochemical Characterization of Polycrystalline CdSe, CdTe and CuInSe[sub 2] Semiconductor Films. , 2010, , .		0
24	Accelerating materials development for photoelectrochemical hydrogen production: Standards for methods, definitions, and reporting protocols. Journal of Materials Research, 2010, 25, 3-16.	1.2	1,032
25	A two-flux model of the optical properties of gold nanoparticles on a porous polymer substrate. , 2010, , .		0
26	Improvement efficiency of a dye-sensitized solar cell using Eu3+ modified TiO2 nanoparticles as a secondary layer electrode. Journal of Materials Chemistry, 2010, 20, 6505.	6.7	37
27	Crystalline SnO ₂ Nanoparticles Size Probed by Eu ³⁺ Luminescence. Crystal Growth and Design, 2011, 11, 4511-4516.	1.4	25
28	Photoassisted Degradation of 4-Chlorophenol and <i>p</i> -Cresol Using MgAl Hydrotalcites. Industrial & Engineering Chemistry Research, 2011, 50, 2762-2767.	1.8	46
29	Enhancement of the Visible Light Photocatalytic Activity of C-Doped TiO ₂ Nanomaterials Prepared by a Green Synthetic Approach. Journal of Physical Chemistry C, 2011, 115, 13285-13292.	1.5	365
30	F-Doped Co ₃ O ₄ Photocatalysts for Sustainable H ₂ Generation from Water/Ethanol. Journal of the American Chemical Society, 2011, 133, 19362-19365.	6.6	171
31	Photochemical Response of Commercial MOFs: Al ₂ (BDC) ₃ and Its Use As Active Material in Photovoltaic Devices. Journal of Physical Chemistry C, 2011, 115, 22200-22206.	1.5	83
32	Plasma-enhanced chemical vapour deposition of inorganic nanomaterials using a chloride precursor. Journal Physics D: Applied Physics, 2011, 44, 174015.	1.3	10
33	Configurations, electronic properties, and diffusion of carbon and nitrogen dopants in rutile TiO2: A density functional theory study. Physical Review B, 2011, 84, .	1.1	15
34	Microstructure and photocatalytic properties of WO3/TiO2 composite films by plasma electrolytic oxidation. Materials Chemistry and Physics, 2011, 129, 242-248.	2.0	80
35	Uniform α-Fe2O3 nanotubes fabricated for adsorption and photocatalytic oxidation of naphthalene. Materials Chemistry and Physics, 2011, 129, 683-687.	2.0	22
36	Selectivity in the photocatalytic properties of the composites of TiO2 nanoparticles with B- and N-doped graphenes. Chemical Physics Letters, 2011, 511, 304-308.	1.2	74
37	Comprehension of the effects of proton on reflectivity of Mo/Si multilayer. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2011, 111, 318-321.	0.2	0

#	Article	IF	CITATIONS
38	Surface Roughness and Structure of Electrodeposited Cu2O Layers on Si Substrates. Topics in Catalysis, 2011, 54, 97-100.	1.3	3
39	Visible light-irradiated degradation of alachlor on Fe-TiO2 with assistance of H2O2. Korean Journal of Chemical Engineering, 2011, 28, 2178-2183.	1.2	21
40	Facile Synthesis of Wideâ€Bandgap Fluorinated Graphene Semiconductors. Chemistry - A European Journal, 2011, 17, 8896-8903.	1.7	121
41	Perovskite-type SrTi1â^'xNbx(O,N)3 compounds: Synthesis, crystal structure and optical properties. Journal of Solid State Chemistry, 2011, 184, 929-936.	1.4	26
42	Production of electricity and hydrogen by photocatalytic degradation of organic wastes in a photoelectrochemical cell. Journal of Hazardous Materials, 2011, 185, 575-590.	6.5	336
43	Photocatalytic Activity of Toluene under UV-LED Light with TiO2Thin Films. International Journal of Photoenergy, 2012, 2012, 1-8.	1.4	15
44	VISIBLE LIGHT ACTIVE Cu²⁺/TiO₂ NANOCATALYST FOR DEGRADATION OF DICHLORVOS. International Journal of Nanoscience, 2012, 11, 1250030.	0.4	4
45	Structural and photocatalytic properties of perovskite-type (La,Ca)Ti(O,N)3 prepared from A-site deficient precursors. Journal of Materials Chemistry, 2012, 22, 17906.	6.7	42
46	Surface modification of submicronic TiO2 particles prepared by ultrasonic spray pyrolysis for visible light absorption. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	22
47	Natural path for more precise determination of band gap by optical spectra. Optics Communications, 2012, 285, 2868-2873.	1.0	10
48	Controlled synthesis, growth mechanism and highly efficient solar photocatalysis of nitrogen-doped bismuth subcarbonate hierarchical nanosheets architectures. Dalton Transactions, 2012, 41, 8270.	1.6	65
49	Realistic absorption coefficient of ultrathin films. Journal of Optics (United Kingdom), 2012, 14, 105701.	1.0	33
50	Effect of synthesis and doping conditions on the physical and chemical properties of mesoporous tin dioxide. Theoretical and Experimental Chemistry, 2012, 48, 265-271.	0.2	5
51	A Review of Photocatalysis using Selfâ€organized TiO ₂ Nanotubes and Other Ordered Oxide Nanostructures. Small, 2012, 8, 3073-3103.	5.2	606
52	Photoelectrochemical activity of as-grown, α-Fe ₂ O ₃ nanowire array electrodes for water splitting. Nanotechnology, 2012, 23, 194009.	1.3	95
53	Photo-induced Charge Separation across the Graphene–TiO ₂ Interface Is Faster than Energy Losses: A Time-Domain <i>ab Initio</i> Analysis. Journal of the American Chemical Society, 2012, 134, 14238-14248.	6.6	226
54	Novel in Situ N-Doped (BiO) ₂ CO ₃ Hierarchical Microspheres Self-Assembled by Nanosheets as Efficient and Durable Visible Light Driven Photocatalyst. Langmuir, 2012, 28, 766-773.	1.6	218
55	Preparation of narrow band gap V2O5/TiO2 composite films by micro-arc oxidation. International Journal of Minerals, Metallurgy and Materials, 2012, 19, 1045-1051.	2.4	7

	CITATION	Report	
# 56	ARTICLE The solar hydrogen from sea water using Cuâ^•TiO[sub 2]. , 2012, , .	IF	CITATIONS
58	Improving openâ€circuit voltage in DSSCs using Cuâ€doped TiO ₂ as a semiconductor. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 378-385.	0.8	54
59	A new method for preparation of rutile phase titania photoactive under visible light. Catalysis Communications, 2012, 24, 5-10.	1.6	25
60	TiO2–graphene nanocomposites for photocatalytic hydrogen production from splitting water. International Journal of Hydrogen Energy, 2012, 37, 2224-2230.	3.8	210
61	One-step, hydrothermal synthesis of nitrogen, carbon co-doped titanium dioxide (N,CTiO2) photocatalysts. Effect of alcohol degree and chain length as carbon dopant precursors on photocatalytic activity and catalyst deactivation. Applied Catalysis B: Environmental, 2012, 115-116, 81-89.	10.8	138
62	Study of surface fluorination of photocatalytic TiO2 by thermal shock method. Journal of Solid State Chemistry, 2012, 187, 300-308.	1.4	18
63	The iron member of the CPO-27 coordination polymer series: Synthesis, characterization, and intriguing redox properties. Microporous and Mesoporous Materials, 2012, 157, 62-74.	2.2	59
64	Band-gap energy estimation from diffuse reflectance measurements on sol–gel and commercial TiO2: a comparative study. Journal of Sol-Gel Science and Technology, 2012, 61, 1-7.	1.1	1,331
65	Plasmonic enhancement of visible-light water splitting with Au–TiO2 composite aerogels. Nanoscale, 2013, 5, 8073.	2.8	130
66	Efficient Plasma Route to Nanostructure Materials: Case Study on the Use of m-WO ₃ for Solar Water Splitting. ACS Applied Materials & Interfaces, 2013, 5, 7621-7625.	4.0	96
67	Substrate and buffer layer effect on the structural and optical properties of graphene oxide thin films. RSC Advances, 2013, 3, 5926.	1.7	43
68	Preparation of Co:TiO2 thin films by crossed-beam pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2013, 110, 909-913.	1.1	13
69	Photoelectrochemical Water Splitting. SpringerBriefs in Energy, 2013, , .	0.2	329
70	The impeding effect of dissolved oxygen on the photocatalytic reduction of [PdCln(H2O)4â^'n]2â^'n (n=0–4) complexes employing different TiO2 photocatalysts in the absence of an added sacrificial reducing agent. Applied Catalysis B: Environmental, 2013, 142-143, 809-816.	10.8	0
71	Ammonia induced formation of N-doped (BiO)2CO3 hierarchical microspheres: the effect of hydrothermal temperature on the morphology and photocatalytic activity. CrystEngComm, 2013, 15, 10522.	1.3	26
72	Nb-doped TiO2 nanoparticles for organic dye-sensitized solar cells. RSC Advances, 2013, 3, 16380.	1.7	75
73	Bulk transport and oxygen surface exchange of the mixed ionic–electronic conductor Ce1â~'xTbxO2â~'δ (x = 0.1, 0.2, 0.5). Journal of Materials Chemistry A, 2013, 1, 10234.	5.2	40
74	Nanoscale surface potential imaging of the photocatalytic TiO2 films on aluminum. RSC Advances, 2013, 3, 23296.	1.7	10

#	Article	IF	CITATIONS
75	Enhanced hydrogen production over CdSe QD/ZTP composite under visible light irradiation without using co-catalyst. International Journal of Hydrogen Energy, 2013, 38, 1267-1277.	3.8	23
76	Enabling aqueous electrophoretic growth of adherent nanotitania mesoporous films via intrafilm cathodic deposition of hydrous zinc oxide. Electrochimica Acta, 2013, 87, 169-179.	2.6	12
77	The influence of preparation conditions and doping on the physicochemical and sensor properties of mesoporous tin oxide. Sensors and Actuators B: Chemical, 2013, 177, 643-653.	4.0	11
78	Transparent conducting Sn:ZnO films deposited from nanoparticles. Journal of Sol-Gel Science and Technology, 2013, 65, 28-35.	1.1	20
79	Plasma Synthesis of Polymerâ€Capped Dye‣ensitised Anatase Nanopowders for Visibleâ€Lightâ€Driven Hydrogen Evolution. ChemSusChem, 2013, 6, 152-159.	3.6	21
80	Laser induced H2 production employing Pt-TiO2 photocatalysts. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 271, 117-123.	2.0	12
81	Synthesis of pore-variable mesoporous CdS and evaluation of its photocatalytic activity in degrading methylene blue. Materials Research Bulletin, 2013, 48, 4379-4384.	2.7	10
82	A route for the synthesis of Cu-doped TiO2 nanoparticles with a very low band gap. Chemical Physics Letters, 2013, 571, 49-53.	1.2	121
83	Effect of the titania substitution on the electronic structure and transport properties of FSS-made Fe2O3 nanoparticles for hydrogen sensing. Sensors and Actuators B: Chemical, 2013, 187, 347-355.	4.0	17
84	Ultrasonic spray pyrolysis of surface modified TiO2 nanoparticles withÂdopamine. Materials Chemistry and Physics, 2013, 143, 233-239.	2.0	37
85	Preparation, characterization of N–I co-doped TiO2 and catalytic performance toward simultaneous Cr(VI) reduction and benzoic acid oxidation. Applied Catalysis B: Environmental, 2013, 140-141, 636-645.	10.8	46
86	Structural evolution and optical properties of C-coated TiO2 nanoparticles prepared by laser pyrolysis. Applied Surface Science, 2013, 278, 295-300.	3.1	15
87	Behavior of gold nanoparticles in a titania aerogel matrix: Photocatalytic activity assessment and structure investigations. Chinese Journal of Catalysis, 2013, 34, 734-740.	6.9	19
88	Flame-made visible light active TiO2:Cr photocatalysts: Correlation between structural, optical and photocatalytic properties. Catalysis Today, 2013, 209, 47-53.	2.2	30
89	Microwave-Assisted Nonaqueous Sol–Gel Synthesis: From Al:ZnO Nanoparticles to Transparent Conducting Films. ACS Sustainable Chemistry and Engineering, 2013, 1, 152-160.	3.2	54
90	Synthesis and photocatalytic activity of boron and fluorine codoped TiO2 nanosheets with reactive facets. Applied Energy, 2013, 112, 1190-1197.	5.1	36
91	Fullerene Interfaced with a TiO ₂ (110) Surface May Not Form an Efficient Photovoltaic Heterojunction: First-Principles Investigation of Electronic Structures. Journal of Physical Chemistry Letters, 2013, 4, 2223-2229.	2.1	36
92	Preparation and characterization of electrodeposited ZnO and ZnO:Co nanorod films for heterojunction diode applications. Journal of Alloys and Compounds, 2013, 574, 104-111.	2.8	36

#	Article	IF	CITATIONS
93	Electro-optical and magnetic properties of monodispersed colloidal Cu2O nanoparticles. Journal of Alloys and Compounds, 2013, 555, 123-130.	2.8	29
94	Weighting the influence of TiO2 anatase/brookite ratio in TiO2–Ag porous nanocomposites on visible photocatalytic performances. Materials Chemistry and Physics, 2013, 141, 234-239.	2.0	8
95	Effective optoelectronic and photocatalytic response of Eu ³⁺ -doped TiO ₂ nanoscale systems synthesized via a rapid condensation technique. Journal of Materials Research, 2013, 28, 1471-1480.	1.2	15
96	N719-dye sensitized amorphous zinc oxide films for NO <inf>2</inf> detection under visible-light illumination. , 2013, , .		1
97	Visible-Light Photodegradation of Diisopropanolamine Using Bimetallic Cu-Fe/TiO ₂ Photocatalyst. Advanced Materials Research, 0, 845, 421-425.	0.3	4
98	Properties of TiO ₂ thin films prepared using sol–gel process. Surface Engineering, 2013, 29, 77-80.	1.1	16
99	UV-Vis Spectroscopy. SpringerBriefs in Energy, 2013, , 49-62.	0.2	22
100	Investigation of the Dye-Sensitized Solar Cell Prepared by the Mixed Oxide from the ZnAl-Layered Double Hydroxide. Advanced Materials Research, 0, 816-817, 115-118.	0.3	2
101	Metastable βâ€Bi ₂ O ₃ Nanoparticles with Potential for Photocatalytic Water Purification Using Visible Light Irradiation. ChemistryOpen, 2013, 2, 146-155.	0.9	68
102	Effect of zinc addition and vacuum annealing time on the properties of spin-coated low-cost transparent conducting 1 at% Ga–ZnO thin films. Science and Technology of Advanced Materials, 2013, 14, 065002.	2.8	37
103	Characterization and photocatalytic study of tantalum oxide nanoparticles prepared by the hydrolysis of tantalum oxo-ethoxide Ta ₈ (μ ₃ -O) ₂ (μ+O) ₈ (μ-OEt) ₆ (OEt) _{14<!--<br-->Beilstein Journal of Nanotechnology, 2014, 5, 1082-1090.}	sub>.	15
104	Electrochemical and Photoelectrochemical Properties of the Copper Hydroxyphosphate Mineral Libethenite. ChemElectroChem, 2014, 1, 663-672.	1.7	15
105	Band gap engineering of TiO2 through hydrogenation. Applied Physics Letters, 2014, 105, .	1.5	39
106	Augmented photocatalytic activity and luminescence response of Tb3+ doped nanoscale titania systems. Journal of Applied Physics, 2014, 116, 144902.	1.1	5
107	Quasiâ€Planar Organic Synthon and S···X (X = S or H–C) Contacts in Flat Copper Coordination Chains: Syntheses, Structures and Conductive Behaviour. European Journal of Inorganic Chemistry, 2014, 2014, 1356-1363.	1.0	4
108	Highly Textured Tin(II) Sulfide Thin Films Formed from Sheetlike Nanocrystal Inks. Chemistry of Materials, 2014, 26, 7106-7113.	3.2	33
109	<i>mP</i> â€BaP ₃ : A New Phase from an Old Binary System. Chemistry - A European Journal, 2014, 20, 10829-10837.	1.7	30
110	Hydrothermal fabrication of N-doped (BiO)2CO3: Structural and morphological influence on the visible light photocatalytic activity. Applied Surface Science, 2014, 319, 256-264.	3.1	27

#	Article	IF	Citations
111	Nanoscaled Bismuth Oxido Clusters: Probing Factors of Structure Formation and Photocatalytic Activity. European Journal of Inorganic Chemistry, 2014, 2014, 302-309.	1.0	20
112	Optical response of strongly absorbing inhomogeneous materials: Application to paper degradation. Physical Review B, 2014, 89, .	1.1	40
113	Effective synthesis route for red-brown pigments based on Ce – Pr – Fe – O and their potential application for near infrared reflective surface coating. Journal of Chemical Sciences, 2014, 126, 65-73.	0.7	15
114	Effect of Iron, Titanium, Vanadium, and Indium Oxides on the Width of the Band Gap and Photoluminescence Intensity of Mesoporous Tin Oxide. Theoretical and Experimental Chemistry, 2014, 49, 396-401.	0.2	1
115	Synthesis and characterization of novel PtSe2/graphene nanocomposites and its visible light driven catalytic properties. Journal of Materials Science, 2014, 49, 4139-4147.	1.7	22
116	Effect of Graphene in Enhancing the Photo Catalytic Activity of Zirconium Oxide. Catalysis Letters, 2014, 144, 301-307.	1.4	21
117	Hierarchically Ordered Tubular Titanium Dioxide Electrodes: Preparation, Electrochemical Characterization, and Application as a Bifunctional Catalyst. ChemElectroChem, 2014, 1, 590-600.	1.7	9
118	Enhanced hydrogen generation using ZrO2-modified coupled ZnO/TiO2 nanocomposites in the absence of noble metal co-catalyst. International Journal of Hydrogen Energy, 2014, 39, 5557-5568.	3.8	27
119	Fabrication of an oxysulfide of bismuth Bi2O2S and its photocatalytic activity in a Bi2O2S/In2O3 composite. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 277, 27-36.	2.0	79
121	Preparation and properties of mixed metal oxides based layered double hydroxide as anode materials for dye-sensitized solar cell. Chemical Engineering Journal, 2014, 250, 1-5.	6.6	59
122	Noble metal doped graphene nanocomposites and its study of photocatalytic hydrogen evolution. Solid State Sciences, 2014, 31, 91-98.	1.5	30
123	Improvement of photocatalytic hydrogen generation from CdSe/CdS/TiO2 nanotube-array coaxial heterogeneous structure. International Journal of Hydrogen Energy, 2014, 39, 90-99.	3.8	62
124	A novel manganese-doped large polyoxotitanate nanocluster. Dalton Transactions, 2014, 43, 3839-3841.	1.6	31
125	Synthesis, structure and optical properties of x(CuO)/(1â^'x)Ni(OH)2 [x=0, 0.1 and 0.3] nanocomposites. Ceramics International, 2014, 40, 7823-7827.	2.3	1
126	A prototypical development of plasmonic multiferroic bismuth ferrite particulate and fiber nanostructures and their remarkable photocatalytic activity under sunlight. Journal of Materials Chemistry C, 2014, 2, 6835-6842.	2.7	62
127	Methylene blue photocatalytic mineralization under visible irradiation on TiO2 thin films doped with chromium. Applied Surface Science, 2014, 319, 121-127.	3.1	37
128	Non-conformal decoration of semiconductor nanowire surfaces with boron nitride (BN) molecules for stability enhancement: degradation-resistant Zn ₃ P ₂ , ZnO and Mg ₂ Si nanowires. Physical Chemistry Chemical Physics, 2014, 16, 16150.	1.3	7
129	Improved photoelectrochemical water oxidation using wurtzite ZnO semiconductors synthesized through simple chemical bath reaction. Electrochimica Acta, 2014, 141, 294-301.	2.6	26

	CITATION	CITATION REPORT	
# 130	ARTICLE One-Dimensional Titanium Dioxide Nanomaterials: Nanotubes. Chemical Reviews, 2014, 114, 9385-9454.	IF 23.0	CITATIONS
131	Synthesis of reduced graphene oxide–TiO2 nanoparticle composite systems and its application in hydrogen production. International Journal of Hydrogen Energy, 2014, 39, 16282-16292.	3.8	96
132	Efficient sunlight-driven photocatalytic activity of chemically bonded GNS–TiO ₂ and GNS–ZnO heterostructures. Journal of Materials Chemistry C, 2014, 2, 6827.	2.7	54
133	Electronic structures and origin of intrinsic luminescence in Bi-containing oxide crystals BiPO4, K3Bi5(PO4)6, K2Bi(PO4)(MoO4), K2Bi(PO4)(WO4) and K5Bi(MoO4)4. Journal of Alloys and Compounds, 2014, 614, 420-435.	2.8	48
134	Photocatalytic H ₂ Evolution from Water–Methanol System by Anisotropic InFeO ₃ (ZnO) _{<i>m</i>} Oxides without Cocatalyst in Visible Light. ACS Applied Materials & Interfaces, 2014, 6, 12321-12327.	4.0	12
135	Four new dinuclear uranyl complexes based on p- and m-toluic acid: Syntheses, structures, luminescent and photocatalytic properties. Inorganica Chimica Acta, 2014, 423, 1-10.	1.2	20
136	Highly active photocatalytic paint for NOx abatement under real-outdoor conditions. Applied Catalysis A: General, 2014, 484, 17-25.	2.2	67
137	Effect of nano-hematite morphology on photocatalytic activity. Physics and Chemistry of Minerals, 2014, 41, 727-736.	0.3	45
138	Structure analysis on Ni and V co-doped zinc oxide prepared by solid state reactions. Journal of Materials Science: Materials in Electronics, 2014, 25, 2898-2904.	1.1	4
139	Highly active photocatalytic coatings prepared by a low-temperature method. Environmental Science and Pollution Research, 2014, 21, 11238-11249.	2.7	58
140	Determination of conduction and valence band electronic structure of anatase and rutile TiO 2. Journal of Chemical Sciences, 2014, 126, 511-515.	0.7	26
141	Experimental and theoretical study of the electronic properties of Cu-doped anatase TiO2. Physical Chemistry Chemical Physics, 2014, 16, 3835.	1.3	111
142	Determination of conduction and valence band electronic structure of La2Ti2O7 thin film. RSC Advances, 2014, 4, 11420.	1.7	9
143	Magneto-optical properties of Cu1â^'xZnxFe2O4 nanoparticles. Superlattices and Microstructures, 2014, 74, 184-197.	1.4	44
144	Thermo-selective Tm _x Ti _{1â^x} O _{2â^x/2} nanoparticles: from Tm-doped anatase TiO ₂ to a rutile/pyrochlore Tm ₂ Ti ₂ O ₇ mixture. An experimental and theoretical study with a photocatalytic application. Nanoscale, 2014, 6, 12740-12757.	2.8	32
145	Electronic and Structural Properties of Highly Aluminum Ion Doped TiO ₂ Nanoparticles: A Combined Experimental and Theoretical Study. ChemPhysChem, 2014, 15, 2267-2280.	1.0	29
146	Visible light-harvesting of TiO2 nanotubes array by pulsed laser deposited CdS. Applied Surface Science, 2014, 309, 225-230.	3.1	27
147	Synthesis of Nb2O5 nanoparticles through the oxidant peroxide method applied to organic pollutant photodegradation: A mechanistic study. Applied Catalysis B: Environmental, 2014, 144, 800-808.	10.8	202

#	Article	IF	CITATIONS
148	Immobilization of Horseradish Peroxidase Enzyme on Nanoporous Titanium Dioxide Electrodes and Its Structural and Electrochemical Characterizations. Applied Biochemistry and Biotechnology, 2014, 174, 1043-1058.	1.4	4
149	Solvothermal synthesis of BiOI microspheres: Effect of the reaction time on the morphology and photocatalytic activity. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 289, 7-13.	2.0	44
150	Crystallography and Properties of Polyoxotitanate Nanoclusters. Chemical Reviews, 2014, 114, 9645-9661.	23.0	256
151	Antibacterial activities of mechanochemically synthesized perovskite strontium titanate ferrite metal oxide. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 456, 169-175.	2.3	33
152	Structural and growth kinetics of in-situ reduced V2O5. International Journal of Refractory Metals and Hard Materials, 2014, 46, 90-95.	1.7	7
153	Mixed-phase TiO2 photocatalysts: Crystalline phase isolation and reconstruction, characterization and photocatalytic activity in the oxidation of 4-chlorophenol from aqueous effluents. Applied Catalysis B: Environmental, 2014, 160-161, 374-382.	10.8	75
154	Effect of the annealing temperature on crystalline phase of copper oxide nanoparticle by copper acetate precursor and sol–gel method. Journal of Thermal Analysis and Calorimetry, 2014, 115, 419-423.	2.0	24
155	Nanostructure composite ZnFe2O4–FeFe2O4–ZnO immobilized on glass: Photocatalytic activity for degradation of an azo textile dye F3B. Journal of Industrial and Engineering Chemistry, 2014, 20, 68-73.	2.9	19
156	Colloidal copper sulfide nanocrystals: Electrochemical, electrical and morphological properties. Materials Research Society Symposia Proceedings, 2015, 1748, 51.	0.1	0
157	Anatase titania nanoparticles for covering P3HT microfibers: Morphological properties. Materials Research Society Symposia Proceedings, 2015, 1737, 60.	0.1	Ο
158	Photoelectrochemical, impedance and optical data for self Sn-diffusion doped Fe 2 O 3 photoanodes fabricated at high temperature by one and two-step annealing methods. Data in Brief, 2015, 5, 796-804.	0.5	16
159	Time―and Energyâ€Efficient Solution Combustion Synthesis of Binary Metal Tungstate Nanoparticles with Enhanced Photocatalytic Activity. ChemSusChem, 2015, 8, 1652-1663.	3.6	44
161	How Does Substitutional Doping Affect Visible Light Absorption in a Series of Homodisperse Ti ₁₁ Polyoxotitanate Nanoparticles?. Chemistry - A European Journal, 2015, 21, 11538-11544.	1.7	39
162	Tm-doped TiO ₂ and Tm ₂ Ti ₂ O ₇ pyrochlore nanoparticles: enhancing the photocatalytic activity of rutile with a pyrochlore phase. Beilstein Journal of Nanotechnology, 2015, 6, 605-616.	1.5	20
163	Effect of Pore Thickness and the State of Polarization on the Optical Properties of Hexagonal Nanoarray of Au/Nanoporous Anodic Alumina Membrane. Journal of Nanomaterials, 2015, 2015, 1-9.	1.5	4
164	Microwave-Assisted Synthesis of Porous ZnO/SnS ₂ Heterojunction and Its Enhanced Photoactivity for Water Purification. Journal of Nanomaterials, 2015, 2015, 1-13.	1.5	19
165	Comparison of nickel titanate (NiTiO3) powders synthesized by sol–gel and solid state reaction. Materials Science in Semiconductor Processing, 2015, 37, 171-178.	1.9	55
166	Controllable Synthesis and Tunable Photocatalytic Properties of Ti3+-doped TiO2. Scientific Reports, 2015, 5, 10714.	1.6	152

#	Article	IF	CITATIONS
167	Synthesis of BiVO ₄ via oxidant peroxo-method: insights into the photocatalytic performance and degradation mechanism of pollutants. New Journal of Chemistry, 2015, 39, 6231-6237.	1.4	58
168	Study of thulium doping effect and enhancement of photocatalytic activity of rutile TiO2 nanoparticles. Materials Chemistry and Physics, 2015, 161, 175-184.	2.0	12
169	Structural, chemical and optical properties of the polyethylene–copper sulfide composite thin films synthesized using polythionic acid as sulfur source. Applied Surface Science, 2015, 347, 520-527.	3.1	6
170	Highly Al-doped TiO2 nanoparticles produced by Ball Mill Method: structural and electronic characterization. Materials Research Bulletin, 2015, 70, 704-711.	2.7	28
171	Photocatalytic Properties of TiO ₂ : Evidence of the Key Role of Surface Active Sites in Water Oxidation. Journal of Physical Chemistry A, 2015, 119, 9465-9473.	1.1	44
172	Vanadium pentoxide 1-D nanostructures applied to dye removal from aqueous systems by coupling adsorption and visible-light photodegradation. RSC Advances, 2015, 5, 12000-12006.	1.7	49
173	Microwave-assisted hydrothermal synthesis of CePO4 nanostructures: Correlation between the structural and optical properties. Journal of Alloys and Compounds, 2015, 643, S209-S218.	2.8	32
174	Physicochemical Characterization of Photocatalytic Materials. , 2015, , 103-153.		3
175	Anatase titania nanorods by pseudo-inorganic templating. Materials Science in Semiconductor Processing, 2015, 31, 658-665.	1.9	10
176	Preparation and Characterization of Rutile-Type TiO2 Doped with Cu. Journal of Materials Engineering and Performance, 2015, 24, 1243-1252.	1.2	19
177	Fine-Tuning Pulse Reverse Electrodeposition for Enhanced Photoelectrochemical Water Oxidation Performance of α-Fe ₂ O ₃ Photoanodes. Journal of Physical Chemistry C, 2015, 119, 5281-5292.	1.5	30
178	A family of 3D UO ₂ ²⁺ –5-X-1,3-dicarboxylate (X = –H, –NO ₂ ,) Tj ET and photochemical properties. CrystEngComm, 2015, 17, 2376-2388.	Qq1 1 0.7 1.3	84314 rgBT / 28
179	Synthesis and assessment of a graphene-based composite photocatalyst. Biochemical Engineering Journal, 2015, 104, 20-26.	1.8	11
180	A novel CeO2/InVO4 composite with high visible-light induced photocatalytic activity. Materials Letters, 2015, 160, 75-80.	1.3	21
181	White-light emission of Ca2La8(GeO4)6O2: Tb3+/Sm3+ nanocrystalline phosphors for solid-state lighting applications. Journal of Luminescence, 2015, 166, 93-100.	1.5	40
182	Modification of C/TiO2@MCM-41 with nickel nanoparticles for photocatalytic desulfurization enhancement of a diesel fuel model under visible light. Journal of Colloid and Interface Science, 2015, 457, 353-359.	5.0	30
183	Synthesis and Development of Graphene–Inorganic Semiconductor Nanocomposites. Chemical Reviews, 2015, 115, 8294-8343.	23.0	227
184	Incorporation of Al-(hydr)oxide species onto the surface of TiO 2 nanoparticles: Improving the open-circuit voltage in dye-sensitized solar cells. Thin Solid Films, 2015, 578, 167-173.	0.8	5

#	Article	IF	CITATIONS
185	Low-temperature synthesis and characterization of anatase TiO2 nanoparticles by an acid assisted sol–gel method. Journal of Alloys and Compounds, 2015, 647, 627-636.	2.8	77
186	Fabrication of a Ag/Bi ₃ TaO ₇ Plasmonic Photocatalyst with Enhanced Photocatalytic Activity for Degradation of Tetracycline. ACS Applied Materials & Interfaces, 2015, 7, 17061-17069.	4.0	251
187	Thermal stability of AlN films prepared by ion beam assisted deposition. Applied Surface Science, 2015, 347, 109-115.	3.1	13
188	Evaluation of surface energy state distribution and bulk defect concentration in DSSC photoanodes based on Sn, Fe, and Cu doped TiO2. Applied Surface Science, 2015, 351, 950-961.	3.1	68
189	UV-black rutile TiO2: An antireflective photocatalytic nanostructure. Journal of Applied Physics, 2015, 117, 074903.	1.1	22
190	of alkyl side chain. Journal of Coordination Chemistry, 2015, 68, 1306-1316.	0.8	3
191	The effect of TiO2 surface modification on the photovoltaic properties of hybrid bulk heterojunction solar cells based on MEH-PPV/CdS/TiO2 active layer. Green Processing and Synthesis, 2015, 4, .	1.3	1
192	Electrical Properties and Defect Chemistry of In-Doped TiO ₂ in Terms of the Jonker Formalism. Journal of Physical Chemistry A, 2015, 119, 4032-4040.	1.1	4
193	Photooxidative–extractive deep desulfurization of diesel using Cu–Fe/TiO2 and eutectic ionic liquid. Fuel, 2015, 156, 54-62.	3.4	57
194	Photocatalytic degradation of organic dyes with Sn2+- and Ag+-substituted K3Nb3WO9(PO4)2 under visible light irradiation. Journal of Sol-Gel Science and Technology, 2015, 75, 224-234.	1.1	6
195	Effect of oxygen activity on semiconducting properties of TiO2 (rutile). Ionics, 2015, 21, 1399-1406.	1.2	5
196	Synthesis and photoluminescence properties of in-situ synthesized core–shell (m-VC@C) nanocomposites. Materials Chemistry and Physics, 2015, 160, 48-58.	2.0	11
197	Enhanced Photocatalytic Activity and Charge Carrier Dynamics of Hetero-Structured Organic–Inorganic Nano-Photocatalysts. ACS Applied Materials & Interfaces, 2015, 7, 7970-7978.	4.0	27
198	TiO2and pyrochlore Tm2Ti2O7based semiconductor as a photoelectrode for dye-sensitized solar cells. Journal Physics D: Applied Physics, 2015, 48, 145102.	1.3	12
199	Hydrogen production from water photosplitting using Cu/TiO2 nanoparticles: Effect of hydrolysis rate and reaction medium. International Journal of Hydrogen Energy, 2015, 40, 6021-6037.	3.8	84
200	Combinatorial insights into doping control and transport properties of zinc tin nitride. Journal of Materials Chemistry C, 2015, 3, 11017-11028.	2.7	128
201	Surface thulium-doped TiO2 nanoparticles used as photoelectrodes in dye-sensitized solar cells: improving the open-circuit voltage. Applied Physics A: Materials Science and Processing, 2015, 121, 1261-1269.	1.1	6
202	Design of Super-Paramagnetic Core–Shell Nanoparticles for Enhanced Performance of Inverted Polymer Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 25061-25068.	4.0	19

#	Article	IF	CITATIONS
203	Origin of photoluminescence from silicon nanowires prepared by metal induced etching (MIE). AIP Conference Proceedings, 2015, , .	0.3	1
204	Anodic formation of highly ordered TiO2 nanotube arrays on conducting glass substrate: Effect of titanium film thickness. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, 061402.	0.9	1
205	Influence of the Dopant Concentration on the Photocatalytic Activity: Al-Doped TiO ₂ . Journal of Physical Chemistry C, 2015, 119, 24695-24703.	1.5	81
206	Luminescent properties and performance tune of novel red-emitting phosphor CalnBO4: Eu3+. Journal of Alloys and Compounds, 2015, 650, 494-501.	2.8	11
207	Getting nanometric MoO3 through chemical synthesis and high energy milling. Journal of Alloys and Compounds, 2015, 648, 445-455.	2.8	13
208	Synthesis of grape-like carbon nanospheres and their application as photocatalyst and electrocatalyst. Journal of Solid State Chemistry, 2015, 232, 108-117.	1.4	12
209	Influence of the Synthetic Procedures on the Structural and Optical Properties of Mixed-Halide (Br, I) Perovskite Films. Journal of Physical Chemistry C, 2015, 119, 21304-21313.	1.5	71
210	Influence of triblock copolymer (pluronic F127) on enhancing the physico-chemical properties and photocatalytic response of mesoporous TiO 2. Applied Surface Science, 2015, 355, 959-968.	3.1	31
211	Surface modification of mixed-phase hydrogenated TiO2 and corresponding photocatalytic response. Applied Surface Science, 2015, 359, 883-896.	3.1	84
212	A Brown Mesoporous TiO _{2â€x} /MCF Composite with an Extremely High Quantum Yield of Solar Energy Photocatalysis for H ₂ Evolution. Small, 2015, 11, 1920-1929.	5.2	99
213	Porous and Shapeâ€Anisotropic Single Crystals of the Semiconductor Perovskite CH ₃ NH ₃ PbI ₃ from a Singleâ€Source Precursor. Angewandte Chemie - International Edition, 2015, 54, 1341-1346.	7.2	54
214	Antibacterial activity of TiO2-CaSiTiO5 materials synthesised from a spent catalyst. Ceramics International, 2015, 41, 2484-2491.	2.3	9
215	Room temperature nitrogen dioxide sensors based on N719-dye sensitized amorphous zinc oxide sensors performed under visible-light illumination. Sensors and Actuators B: Chemical, 2015, 209, 69-77.	4.0	56
216	A rotating disk study of the photocatalytic oxidation of p-nitrophenol on phosphorus-modified TiO2 photocatalyst. Applied Catalysis B: Environmental, 2015, 166-167, 529-534.	10.8	22
217	Remediation of 17-α-ethinylestradiol aqueous solution by photocatalysis and electrochemically-assisted photocatalysis using TiO2 and TiO2/WO3 electrodes irradiated by a solar simulator. Water Research, 2015, 72, 305-314.	5.3	62
218	A highly efficient nanostructured quinary photocatalyst for hydrogen production. International Journal of Energy Research, 2015, 39, 516-523.	2.2	18
219	Composition-dependent sensing mechanism of electrospun conductive polymer composite nanofibers. Sensors and Actuators B: Chemical, 2015, 207, 235-242.	4.0	46
220	Magnetic and optical properties of Cu1â^'xZnxFe2O4 nanoparticles dispersed in a silica matrix by a sol–gel auto-combustion method. Ceramics International, 2015, 41, 231-239.	2.3	61

#	Article	IF	CITATIONS
221	Photocatalytic Properties of Commercially Available TiO2 Powders for Pollution Control. , 0, , .		8
222	Morphological and Optical Characterization of High Density Au/PAA Nanoarrays. Journal of Spectroscopy, 2016, 2016, 1-8.	0.6	1
223	Photoelectrocatalytic degradation of methyl red dye using Au doped TiO ₂ photocatalyst. , 2016, , .		1
224	Modification of Titanium Dioxide with Graphitic Carbon from Anthracene Thermal Decomposition as a Promising Method for Visible- Active Photocatalysts Preparation. Journal of Advanced Oxidation Technologies, 2016, 19, .	0.5	4
225	Electroluminescence from light-emitting devices with erbium-doped TiO ₂ films: Enhancement effect of yttrium codoping. Journal of Applied Physics, 2016, 120, 163104.	1.1	13
226	Synthesis, characterization and daylight active photocatalyst with antiphotocorrosive property for detoxification of azo dyes. Separation and Purification Technology, 2016, 164, 170-181.	3.9	20
227	Enhanced photoelectrochemical properties of nano-CdS sensitized micro-nanoporous TiO2 thin films from gas/liquid interface assembly. Journal of Alloys and Compounds, 2016, 684, 616-623.	2.8	10
228	Hydrothermal synthesis of Bismuth(III) coordination polymer and its transformation to nano α-Bi2O3 for photocatalytic degradation. Journal of Solid State Chemistry, 2016, 239, 274-281.	1.4	34
229	Morphological evolution and visible light-induced degradation of Rhodamine 6G by nanocrystalline bismuth tungstate prepared using a template-based approach. Journal of Physics and Chemistry of Solids, 2016, 96-97, 83-91.	1.9	17
230	Microspheres of graphene oxide coupled to N-doped Bi2O2CO3 for visible light photocatalysis. Chinese Journal of Catalysis, 2016, 37, 760-768.	6.9	27
231	Study of the crystallographic phase change on copper (I) selenide thin films prepared through chemical bath deposition by varying the pH of the solution. Journal of Solid State Chemistry, 2016, 239, 106-112.	1.4	9
232	Optical band gaps of organic semiconductor materials. Optical Materials, 2016, 58, 51-60.	1.7	268
233	One-Pot Hydrothermal Route to Synthesize the Bi-doped Anatase TiO ₂ Hollow Thin Sheets with Prior Facet Exposed for Enhanced Visible-Light-Driven Photocatalytic Activity. Industrial & Engineering Chemistry Research, 2016, 55, 6373-6383.	1.8	36
234	Single Precursor Mediated-Synthesis of Bi Semimetal Deposited N-Doped (BiO) ₂ CO ₃ Superstructures for Highly Promoted Photocatalysis. ACS Sustainable Chemistry and Engineering, 2016, 4, 2969-2979.	3.2	64
235	Remediation of DIPA Contaminated Wastewater Using Visible Light Active Bimetallic Cu-Fe/TiO2 Photocatalyst. Procedia Engineering, 2016, 148, 508-515.	1.2	3
236	High Throughput Light Absorber Discovery, Part 1: An Algorithm for Automated Tauc Analysis. ACS Combinatorial Science, 2016, 18, 673-681.	3.8	118
237	Oneâ€Pot Preparation of Hierarchical Nanosheetâ€Constructed Fe ₃ O ₄ /MILâ€88B(Fe) Magnetic Microspheres with High Efficiency Photocatalytic Degradation of Dye. ChemCatChem, 2016, 8, 3510-3517.	1.8	52
238	The hydrothermal synthesis, crystal structure and electrochemical properties of MnSb ₂ O ₄ . Dalton Transactions, 2016, 45, 18994-19001.	1.6	6

#	Article	IF	CITATIONS
239	Design and simple synthesis of composite Bi ₁₂ TiO ₂₀ /Bi ₄ Ti ₃ O ₁₂ with a good photocatalytic quantum efficiency and high production of photo-generated hydroxyl radicals. Physical Chemistry Chemical Physics, 2016, 18, 26530-26538.	1.3	48
240	Tunable luminescence properties and energy transfer of Tm3+, Dy3+, and Eu3+ co-activated InNbO4 phosphors for warm-white-lighting. Ceramics International, 2016, 42, 15994-16006.	2.3	30
241	Influence of HCl on the NPs-CdSe synthesis prepared by the colloidal method. Journal of Applied Research and Technology, 2016, 14, 225-231.	0.6	3
242	3 D Co ₃ (PO ₄) ₂ –Reduced Graphene Oxide Flowers for Photocatalytic Water Splitting: A Typeâ€II Staggered Heterojunction System. ChemSusChem, 2016, 9, 3150-3160.	3.6	59
243	Facets and defects cooperatively promote visible light plasmonic photocatalysis with Bi nanowires@BiOCl nanosheets. Journal of Catalysis, 2016, 344, 401-410.	3.1	172
244	Hydrogen-doped Brookite TiO2 Nanobullets Array as a Novel Photoanode for Efficient Solar Water Splitting. Scientific Reports, 2016, 6, 36099.	1.6	33
245	Preparation of vanadium oxide thin films modified with Ag using a hybrid deposition configuration. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	10
246	Synthesis and characterization of N-doped TiO 2 nanoparticles and their application in photocatalytic oxidation of dibenzothiophene under visible light. Ceramics International, 2016, 42, 14834-14842.	2.3	107
247	Electronic properties of atomic layer deposition films, anatase and rutile TiO ₂ studied by resonant photoemission spectroscopy. Journal Physics D: Applied Physics, 2016, 49, 275304.	1.3	29
248	Photocatalytic H 2 evolution from water–methanol mixtures on InGaO 3 (ZnO) m with an anisotropic layered structure modified with CuO and NiO cocatalysts. Journal of Molecular Catalysis A, 2016, 415, 82-88.	4.8	8
249	Bismuth–titanium oxide nanopowders prepared by sol–gel method for photocatalytic applications. Materials Chemistry and Physics, 2016, 172, 11-19.	2.0	22
250	Marcasite revisited: Optical absorption gap at room temperature. Solid State Communications, 2016, 230, 20-24.	0.9	29
251	Organic–inorganic bismuth (III)-based material: A lead-free, air-stable and solution-processable light-absorber beyond organolead perovskites. Nano Research, 2016, 9, 692-702.	5.8	351
252	Iron-Doped Carbon Nitride-Type Polymers as Homogeneous Organocatalysts for Visible Light-Driven Hydrogen Evolution. ACS Applied Materials & Interfaces, 2016, 8, 617-624.	4.0	135
253	Aqueous-based synthesis of mesoporous TiO2 and Ag–TiO2 nanopowders for efficient photodegradation of methylene blue. Ceramics International, 2016, 42, 2488-2496.	2.3	51
254	Enhancement of Photoinduced Visible Light Degradation of Salicylic Acid by Covalently Attached Synthetic Flavins on BiOCl Semiconductor Particle Surfaces. Journal of Physical Chemistry C, 2016, 120, 16069-16079.	1.5	16
255	Nanostructured niobium oxyhydroxide dispersed Poly (3-hydroxybutyrate) (PHB) films: Highly efficient photocatalysts for degradation methylene blue dye. Applied Catalysis B: Environmental, 2016, 189, 141-150.	10.8	46
256	Controlled synthesis of BiVO 4 photocatalysts: Evidence of the role of heterojunctions in their catalytic performance driven by visible-light. Applied Catalysis B: Environmental, 2016, 188, 87-97.	10.8	128

#	Article	IF	CITATIONS
257	A facile synthesis of mesoporous titania cubes and their photocatalytic application. Journal of Alloys and Compounds, 2016, 668, 56-64.	2.8	11
258	Solution Combustion Synthesis, Characterization, and Photoelectrochemistry of CuNb ₂ O ₆ and ZnNb ₂ O ₆ Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 16024-16034.	1.5	56
259	Synthesis, characterization, structural and optical absorption behavior of SnxSbySz powders. Advanced Powder Technology, 2016, 27, 734-741.	2.0	19
260	Stable Ti ³⁺ Self-Doped Anatase-Rutile Mixed TiO ₂ with Enhanced Visible Light Utilization and Durability. Journal of Physical Chemistry C, 2016, 120, 6116-6124.	1.5	178
261	Bridging the g-C ₃ N ₄ Interlayers for Enhanced Photocatalysis. ACS Catalysis, 2016, 6, 2462-2472.	5.5	869
262	Development of ternary iron vanadium oxide semiconductors for applications in photoelectrochemical water oxidation. RSC Advances, 2016, 6, 4992-4999.	1.7	47
263	Ultrasound exfoliation of g-C3N4 with assistance of cadmium ions and synthesis of CdS/g-C3N4 ultrathin nanosheets with efficient photocatalytic activity. Journal of the Taiwan Institute of Chemical Engineers, 2016, 60, 643-650.	2.7	47
264	In situ preparation of a MOF-derived magnetic carbonaceous catalyst for visible-light-driven hydrogen evolution. RSC Advances, 2016, 6, 2011-2018.	1.7	35
265	Iron doped anatase for application in photocatalysis. Journal of the European Ceramic Society, 2016, 36, 2991-2996.	2.8	12
266	Efficient removal of dye MB: Through the combined action of adsorption and photodegradation from NiFe2O4/Ag3PO4. Journal of Alloys and Compounds, 2016, 664, 169-174.	2.8	63
267	Two New Series of Coordination Polymers and Evaluation of Their Properties by Density Functional Theory. Crystal Growth and Design, 2016, 16, 339-346.	1.4	6
268	Low Temperature Synthesis of TiO2Nanoparticles with High Photocatalytic Activity and Photoelectrochemical Properties through Sol–Gel Method. Materials and Manufacturing Processes, 2016, 31, 119-125.	2.7	15
269	Particulates vs. fibers: dimension featured magnetic and visible light driven photocatalytic properties of Sc modified multiferroic bismuth ferrite nanostructures. Nanoscale, 2016, 8, 1147-1160.	2.8	49
270	Photocatalytic degradation of ciprofloxacin using mono- (Au, Ag and Cu) and bi- (Au–Ag and Au–Cu) metallic nanoparticles supported on TiO2 under UV-C and simulated sunlight. Catalysis Today, 2016, 266, 175-187.	2.2	129
271	Influence of surface disorder, oxygen defects and bandgap in TiO2 nanostructures on the photovoltaic properties of dye sensitized solar cells. Solar Energy Materials and Solar Cells, 2016, 144, 194-209.	3.0	72
272	UV–Vis-NIR and micro Raman spectroscopies for the non destructive identification of Cd 1â^'x Zn x S solid solutions in cadmium yellow pigments. Microchemical Journal, 2016, 124, 856-867.	2.3	68
273	TiO2/graphene composite photocatalysts for NOx removal: A comparison of surfactant-stabilized graphene and reduced graphene oxide. Applied Catalysis B: Environmental, 2016, 180, 637-647.	10.8	199
274	Advances on the synthesis of porous TiO2 coatings by anodic spark oxidation. Photocatalytic reduction of Cr(VI). Materials Chemistry and Physics, 2017, 191, 106-113.	2.0	18

#	Article	IF	CITATIONS
275	The Properties and Activity of TiO ₂ /betaâ€ s iC Nanocomposites in Organic Dyes Photodegradation. Photochemistry and Photobiology, 2017, 93, 558-568.	1.3	12
276	Two new Ag (I) supramolecular complexes based on melamine: Synthesis, structures and photocatalytic activity under visible light irradiation. Polyhedron, 2017, 126, 150-158.	1.0	16
277	p-Cu ₂ S/n-Zn _x Cd _{1â^'x} S nanocrystals dispersed in a 3D porous graphene nanostructure: an excellent photocatalyst for hydrogen generation through sunlight driven water splitting. Catalysis Science and Technology, 2017, 7, 1305-1314.	2.1	23
278	Spectral Anomaly in Raman Scattering from p-Type Silicon Nanowires. Journal of Physical Chemistry C, 2017, 121, 5372-5378.	1.5	39
279	Structural Defectâ€Induced Bandgap Narrowing in Dopantâ€Free Anodic TiO ₂ Nanotubes. ChemElectroChem, 2017, 4, 1227-1235.	1.7	15
280	A small bandgap semiconductor, p-type MnV ₂ O ₆ , active for photocatalytic hydrogen and oxygen production. Dalton Transactions, 2017, 46, 10657-10664.	1.6	32
281	Effect of current density and electrochemical cycling on physical properties of silicon nanowires as anode for lithium ion battery. Materials Characterization, 2017, 129, 24-30.	1.9	8
282	Solar photocatalytic application of NbO 2 OH as alternative photocatalyst for water treatment. Science of the Total Environment, 2017, 596-597, 79-86.	3.9	37
283	Impact of the crystallinity of mesoporous polymeric graphitic carbon nitride on the photocatalytic performance under UV and visible light. Microporous and Mesoporous Materials, 2017, 254, 136-145.	2.2	9
284	Fabrication and characterization of photoelectrochemically-active Sb-doped Sn x -W (100-x)% -oxide anodes: Towards the removal of organic pollutants from wastewater. Applied Surface Science, 2017, 416, 318-328.	3.1	16
285	g-C3N4/Nb2O5 heterostructures tailored by sonochemical synthesis: Enhanced photocatalytic performance in oxidation of emerging pollutants driven by visible radiation. Applied Catalysis B: Environmental, 2017, 216, 70-79.	10.8	114
286	Spin-coated Al-doped ZnO thin films for optical applications: Structural, micro-structural, optical and luminescence studies. Journal of Alloys and Compounds, 2017, 722, 888-895.	2.8	62
287	Investigation of Physical and Electronic Properties of GeSe for Photovoltaic Applications. Advanced Electronic Materials, 2017, 3, 1700141.	2.6	81
288	Enhanced visible light photocatalytic water reduction from a g-C3N4/SrTa2O6 heterojunction. Applied Catalysis B: Environmental, 2017, 217, 448-458.	10.8	58
289	Superhydrophilic and self-cleaning rGO-TiO 2 composite coatings for indoor and outdoor photovoltaic applications. Solar Energy Materials and Solar Cells, 2017, 169, 304-312.	3.0	64
290	Synthesis of cobalt-orthotitanate inverse spinel nano particles via a novel low temperature solvothermal method: structural, opto-electronical, morphological, surface characterization and photo-catalytical application in mineralization of Remazol Red RB 133. Journal of Materials Science: Materials in Flectronics. 2017. 28, 10838-10846.	1.1	2
291	Fabrication of SiO ₂ @silicalite-1 and its use as a catalyst support. RSC Advances, 2017, 7, 12224-12230.	1.7	16
292	Preparation of titanium dioxide thin films by indirect-electrodeposition. Thin Solid Films, 2017, 628, 203-207.	0.8	15

#	Article	IF	CITATIONS
293	Magnetic recyclable microcomposite silica-steel core with TiO2 nanocomposite shell photocatalysts for sustainable water purification. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 523, 27-37.	2.3	15
294	Enhanced photocatalytic activity of carbon and zirconium modified TiO2. Catalysis Today, 2017, 284, 215-220.	2.2	19
295	NiTiO3/Ag3PO4 composites with improved photocatalytic activity under visible-light irradiation. Ceramics International, 2017, 43, 3314-3318.	2.3	19
296	Ag/Ag _{<i>x</i>} H _{3–<i>x</i>} PMo ₁₂ O ₄₀ Nanowires with Enhanced Visible-Light-Driven Photocatalytic Performance. ACS Applied Materials & Interfaces, 2017, 9, 422-430.	4.0	75
297	P123 and solvent-assisted synthesis of titania nanocuboids with co-exposed {101} and {001} planes. CrystEngComm, 2017, 19, 511-518.	1.3	5
298	Calcium Bismuthate Nanoparticulates with Orthorhombic and Rhombohedral Crystalline Lattices: Effects of Composition and Structure on Photoactivity. ChemistrySelect, 2017, 2, 9851-9863.	0.7	13
299	Unlocking the structure of mixed amorphous-crystalline ceramic oxide films synthesized under low temperature electromagnetic excitation. Journal of Materials Chemistry A, 2017, 5, 18434-18441.	5.2	20
300	Improving the visible light photoelectrochemical activity of synthesized TiO2nanotube arrays in an organic electrolyte containing sodium carbonate with doping by copper via single-step anodization. New Journal of Chemistry, 2017, 41, 10723-10730.	1.4	3
301	Low temperature synthesis of few-layer titanate nanobelts on Ti mesh and the hot-water induced transformations to highly photocatalytic active titania nanorods. Journal of Environmental Chemical Engineering, 2017, 5, 4676-4683.	3.3	10
302	Structural and optical characterization of Y2Ti2O7 and Y2Ti1.5Hf0.5O7 nanomaterials. Journal of Materials Science: Materials in Electronics, 2017, 28, 18497-18507.	1.1	7
303	Towards control over redox behaviour and ionic conductivity in LiTi2(PO4)3 fast lithium-ion conductor. Acta Materialia, 2017, 140, 417-423.	3.8	11
304	Lowering Band Gap of an Electroactive Metal–Organic Framework via Complementary Guest Intercalation. ACS Applied Materials & Interfaces, 2017, 9, 32413-32417.	4.0	75
305	Effect of organic chain length on structure, electronic composition, lattice potential energy, and optical properties of 2D hybrid perovskites [(NH3)(CH2) n (NH3)]CuCl4, nA=Â2–9. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	49
306	Tunable dielectric behaviour and energy band gap range of ZnAl2O4 ceramics mediated by Mg substitution. Journal of Alloys and Compounds, 2017, 724, 940-950.	2.8	16
307	Synthesis and VOC degradation ability of a CeO 2 /WO 3 thin-layer visible-light photocatalyst. Materials Research Bulletin, 2017, 94, 493-499.	2.7	25
308	Effect of sodium carbonate as an additive on the morphology and photocatalytic activity of TiO2 nanotubes. Materials Research Bulletin, 2017, 95, 169-176.	2.7	8
309	Improving the Surface Properties of CeO ₂ by Dissolution of Ce ³⁺ to Enhance the Performance for Catalytic Wet Air Oxidation of Phenol. Industrial & amp; Engineering Chemistry Research, 2017, 56, 9090-9097.	1.8	24
310	Absorption boost of TiO2 nanotubes by doping with N and sensitization with CdS quantum dots. Ceramics International, 2017, 43, 15040-15046.	2.3	12

#	Article	IF	CITATIONS
311	NaCe(MoO4)2 microcrystals: Hydrothermal synthesis, characterization and photocatalytic performance. Journal of Physics and Chemistry of Solids, 2017, 111, 258-265.	1.9	16
312	Red phosphor based on Eu ³⁺ -isoelectronically doped Ba ₂ SiO ₄ obtained <i>via</i> sol–gel route for solid state lightning. RSC Advances, 2017, 7, 53752-53762.	1.7	38
313	Green synthesis of rGO-WO3 composite and its efficient photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2017, 42, 29791-29796.	3.8	24
314	Synthesis of Ultra‧mall Palladium Nanoparticles Deposited on CdS Nanorods by Pulsed Laser Ablation in Liquid: Role of Metal Nanocrystal Size in the Photocatalytic Hydrogen Production. Chemistry - A European Journal, 2017, 23, 13112-13119.	1.7	59
315	Facile synthesis of magnetically separable CoFe2O4/Ag2O/Ag2CO3 nanoheterostructures with high photocatalytic performance under visible light and enhanced stability against photodegradation. Journal of Environmental Chemical Engineering, 2017, 5, 3455-3462.	3.3	12
316	Yttrium oxide nanostructured thin films deposited by radio frequency sputtering: the annealing optimizations and correlations between structural, morphological, optical and electrical properties. Journal of Materials Science: Materials in Electronics, 2017, 28, 13920-13927.	1.1	9
317	Synthesis of green-photoluminescent single layer graphene quantum dots: Determination of HOMO and LUMO energy states. Journal of Luminescence, 2017, 192, 180-183.	1.5	106
318	On the apparent visible-light and enhanced UV-light photocatalytic activity of nitrogen-doped TiO 2 thin films. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 333, 49-55.	2.0	29
319	Synthesis and properties of zinc oxide photocatalyst by high-temperature processing of resorcinol-formaldehyde/zinc acetate mixture. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 334, 36-46.	2.0	20
320	Preparation, characterization, and application of ZnO@SiO2 core–shell structured catalyst for photocatalytic degradation of phenol. Environmental Science and Pollution Research, 2017, 24, 12655-12663.	2.7	43
321	Unexpected rapid photo-catalytic decolourisation/degradation of organic pollutants over highly active hetero junction based vanadium phosphate catalyst. Catalysis Today, 2017, 284, 84-91.	2.2	10
322	Determination of force constant and refractive index of a semiconducting polymer composite using UV/visible spectroscopy: a new approach. Indian Journal of Physics, 2017, 91, 53-56.	0.9	8
323	Controlled hydrodynamic conditions on the formation of iron oxide nanostructures synthesized by electrochemical anodization: Effect of the electrode rotation speed. Applied Surface Science, 2017, 392, 503-513.	3.1	23
324	Enhancing the photocatalytic oxidation of dibenzothiophene using visible light responsive Fe and N co-doped TiO 2 nanoparticles. Ceramics International, 2017, 43, 973-981.	2.3	67
325	Improvement of the BiOI photocatalytic activity optimizing the solvothermal synthesis. Solid State Sciences, 2017, 63, 84-92.	1.5	22
326	Photocatalytic activity of modified g-C 3 N 4 /TiO 2 nanocomposites for NOx removal. Catalysis Today, 2017, 280, 37-44.	2.2	94
327	Evolution of TiO2 Nanotubular Morphology Obtained in Ethylene Glycol/Glycerol Mixture and its Photoelectrochemical Performance. Materials Research, 2017, 20, 962-972.	0.6	16
328	Synergistic Effects of Sm and C Co-Doped Mixed Phase Crystalline TiO2 for Visible Light Photocatalytic Activity. Materials, 2017, 10, 209.	1.3	23

#	Article	IF	CITATIONS
329	Sulfur-Doped TiO2: Structure and Surface Properties. Catalysts, 2017, 7, 214.	1.6	51
330	Synthesis and Characterization of Ag-Modified V ₂ O ₅ Photocatalytic Materials. Journal of Chemistry, 2017, 2017, 1-10.	0.9	10
331	Phthalocyanines: Alternative Sensitizers of TiO2 to be Used in Photocatalysis. , 0, , .		4
332	Effect of solvents on optical band gap of silicon-doped graphene oxide. Materials Research Express, 2018, 5, 035017.	0.8	9
333	Ternary rare earth sulfide CaCe2S4: Synthesis and characterization of stability, structure, and photoelectrochemical properties in aqueous media. Journal of Solid State Chemistry, 2018, 262, 149-155.	1.4	9
334	Optical and electrical properties of E-Beam deposited TiO2/Si thin films. Journal of Materials Science: Materials in Electronics, 2018, 29, 9879-9885.	1.1	6
335	Bi ₂ Ti ₂ O ₇ â€based pyrochlore nanoparticles and their superior photocatalytic activity under visible light. Journal of the American Ceramic Society, 2018, 101, 82-90.	1.9	38
336	Photoreduction route for Cu ₂ 0/TiO ₂ nanotubes junction for enhanced photocatalytic activity. RSC Advances, 2018, 8, 12420-12427.	1.7	42
337	Aqueous synthesis of Z-scheme photocatalyst powders and thin-film photoanodes from earth abundant elements. Journal of Environmental Chemical Engineering, 2018, 6, 2606-2615.	3.3	8
338	Surface modified titanium dioxide using transition metals: nickel as a winning transition metal for solar light photocatalysis. Journal of Materials Chemistry A, 2018, 6, 9882-9892.	5.2	43
339	Fabrication of In ₂ S ₃ /NaTaO ₃ composites for enhancing the photocatalytic activity toward the degradation of tetracycline. New Journal of Chemistry, 2018, 42, 5052-5058.	1.4	52
340	Complex Oxides Based on Silver, Bismuth, and Tungsten: Syntheses, Characterization, and Photoelectrochemical Behavior. Journal of Physical Chemistry C, 2018, 122, 13473-13480.	1.5	11
341	(00 <i>l</i>)-Facet-Exposed Planelike ABi ₂ Nb ₂ O ₉ (A = Ca, Sr, Ba) Powders with a Single-Crystal Grain for Enhancement of Photocatalytic Activity. ACS Sustainable Chemistry and Engineering, 2018, 6, 3840-3852.	3.2	28
342	Zinc-aluminum oxide solid solution nanosheets obtained by pyrolysis of layered double hydroxide as the photoanodes for dye-sensitized solar cells. Journal of Colloid and Interface Science, 2018, 515, 240-247.	5.0	19
343	Differences between bulk and surface electronic structure of doped TiO2 with soft-elements (C, N and) Tj ETQq() 0 0 rgBT 2.0	/Oyerlock 10
344	Structural characterization of off-stoichiometric kesterite-type Cu ₂ ZnGeSe ₄ compound semiconductors: from cation distribution to intrinsic point defect density. CrystEngComm, 2018, 20, 1491-1498.	1.3	30
345	Fabrication of magnetically separable NiFe ₂ O ₄ /BiOI nanocomposites with enhanced photocatalytic performance under visible-light irradiation. RSC Advances, 2018, 8, 4284-4294.	1.7	84
346	Photocatalytic dye degradation with copper–titanium dioxide nanocomposites under sunlight and visible light irradiation. Materials Research Express, 2018, 5, 015030.	0.8	6

#	Article	IF	CITATIONS
347	Impact of Bi ³⁺ Heterovalent Doping in Organic–Inorganic Metal Halide Perovskite Crystals. Journal of the American Chemical Society, 2018, 140, 574-577.	6.6	181
348	Crystal structure and optical properties of silver-doped copper nitride films (Cu ₃ N:Ag) prepared by magnetron sputtering. Journal Physics D: Applied Physics, 2018, 51, 055305.	1.3	14
349	Evaluation of the effect that the substitution of the ion MA by the ion Cs produces on the properties of thin films of Cs MA1-PbI3 prepared by spin-coating. Journal of Alloys and Compounds, 2018, 750, 286-291.	2.8	5
350	Stable Hydrogen Evolution from an AgRhO ₂ Photocathode under Visible Light. Chemistry of Materials, 2018, 30, 2574-2582.	3.2	19
351	Electronic conduction mechanism and optical spectroscopy of Indigo carmine as novel organic semiconductors. Optical and Quantum Electronics, 2018, 50, 1.	1.5	10
352	Enhanced photoelectrochemical performance of iron and carbon self-doped TiO2 photoanodes modified with nitrogen. Thin Solid Films, 2018, 653, 326-332.	0.8	8
353	Near infrared-induced optical gating at the lead-sulfide (PbS)/pentacene interface. Thin Solid Films, 2018, 651, 85-90.	0.8	6
354	Photocatalytic performance of plasmonic Au/Ag-TiO2 aerogel nanocomposites. Journal of Non-Crystalline Solids, 2018, 489, 33-39.	1.5	25
355	One-pot synthesis of TiO2/graphene nanocomposites for excellent visible light photocatalysis based on chemical exfoliation method. Carbon, 2018, 133, 109-117.	5.4	69
356	MoS2/Cu/TiO2 nanoparticles: synthesis, characterization and effect on photocatalytic decomposition of methylene blue in water under visible light. Water Science and Technology, 2018, 2017, 184-193.	1.2	10
357	Effect of Ti Substrate Ion Implantation on the Physical Properties of Anodic TiO2 Nanotubes. Journal of the Korean Physical Society, 2018, 72, 604-609.	0.3	5
358	Flux method fabrication of potassium rare-earth tantalates for CO2 photoreduction using H2O as an electron donor. Catalysis Today, 2018, 300, 173-182.	2.2	24
359	On the measured optical bandgap values of inorganic oxide semiconductors for solar fuels generation. Catalysis Today, 2018, 300, 136-144.	2.2	43
360	One-pot synthesis and improved photocatalytic performance of Ag10Si4O13/N–CeO2 composites. Journal of Materials Science: Materials in Electronics, 2018, 29, 2282-2290.	1.1	3
361	Characterization of a sodium molybdate compound β-Na4Cu(MoO4)3. Journal of Alloys and Compounds, 2018, 731, 955-963.	2.8	9
362	Synthesis and optical properties of cerium doped Li7La3Hf2O12 with tetragonal garnet structure. Journal of Luminescence, 2018, 194, 193-199.	1.5	7
363	Structural, optical and electrical properties of ZnO/ZnAl2O4 nanocomposites prepared via thermal reduction approach. Journal of Materials Science, 2018, 53, 581-590.	1.7	17
364	Heterogeneous photocatalytic Cr(VI) reduction with short and long nanotubular TiO 2 coatings prepared by anodic oxidation. Materials Research Bulletin, 2018, 97, 150-157.	2.7	29

#	Article	IF	CITATIONS
365	Enhanced NO 2 abatement by alkaline-earth modified g-C 3 N 4 nanocomposites for efficient air purification. Applied Surface Science, 2018, 430, 225-233.	3.1	33
366	Polyoxometalate/TiO2/Ag composite nanofibers with enhanced photocatalytic performance under visible light. Applied Catalysis B: Environmental, 2018, 221, 280-289.	10.8	136
367	High-performance ultraviolet-visible driven ZnO morphologies photocatalyst obtained by microwave-assisted hydrothermal method. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 358-367.	2.0	33
368	Optimization of electrolyte to significantly improve photoelectrochemical water splitting performance of ZnO nanowire arrays. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 227, 129-135.	1.7	33
369	Charge transfer and intrinsic electronic properties of rGO-WO 3 nanostructures for efficient photoelectrochemical and photocatalytic applications. Materials Science in Semiconductor Processing, 2018, 74, 136-146.	1.9	47
370	Structural, optical and dielectric characterization of Au/HfO2/(Pt,TiN) capacitors. Thin Solid Films, 2018, 645, 282-289.	0.8	2
371	Enhanced scintillation of Ba3In(B3O6)3 based on nitrogen doping. Journal of Solid State Chemistry, 2018, 258, 351-357.	1.4	9
372	MoS ₂ thin films spectrophotometry. IOP Conference Series: Materials Science and Engineering, 2018, 387, 012008.	0.3	3
373	Morphology of titanium dioxide synthesized via precipitation technique: Effect of calcination and reflux on the surface morphology. Journal of Physics: Conference Series, 2018, 1123, 012059.	0.3	2
374	Influence of the Concentration of Cs on the Properties of Thin Films of Cs <inf>X</inf> MA <inf>(1-X)</inf> PbI <inf>3</inf> to be used as Active Layer in Hybrid Solar Cells. , 2018, , .		0
375	How To Correctly Determine the Band Gap Energy of Modified Semiconductor Photocatalysts Based on UV–Vis Spectra. Journal of Physical Chemistry Letters, 2018, 9, 6814-6817.	2.1	2,043
376	Interface Potentials, Intrinsic Defects, and Passivation Mechanisms in Al2O3, HfO2, and TiO2 Ultrathin Films. , 2018, , 162-171.		4
377	Design and analysis of electrostatic doped tunnel CNTFET for various process parameters variation. Superlattices and Microstructures, 2018, 124, 160-167.	1.4	27
378	Transparent Photocatalytic Thin Films on Flexible Polymer Substrates. Materials, 2018, 11, 1945.	1.3	21
379	Spin-polarized electron transport in highly reduced MgFe ₂ O _{4-<i>δ</i>} . Materials Research Express, 2018, 5, 126301.	0.8	9
380	Multifunctionality of Partially Reduced Graphene Oxide–CrVO ₄ Nanocomposite: Electrochemical and Photocatalytic Studies with Theoretical Insight from Density Functional Theory. Journal of Physical Chemistry C, 2018, 122, 21140-21150.	1.5	25
381	Visible-light-active g-C ₃ N ₄ /N-doped Sr ₂ Nb ₂ O ₇ heterojunctions as photocatalysts for the hydrogen evolution reaction. Sustainable Energy and Fuels, 2018, 2, 2507-2515.	2.5	46
382	Luminescence behaviour and deposition of Sc2O3 thin films from scandium(III) acetylacetonate at ambient pressure. Applied Physics Letters, 2018, 112, 221902.	1.5	11

#	Article	IF	CITATIONS
383	Red phosphor based on Eu3+-doped Y2(MoO4)3 incorporated with Au NPs synthesized via Pechini's method. Optical Materials, 2018, 84, 137-145.	1.7	21
384	Photoelectrochemical and photocatalytic activity of TiO2-WO3 heterostructures boosted by mutual interaction. Materials Science in Semiconductor Processing, 2018, 88, 10-19.	1.9	45
385	Chemical vs thermal exfoliation of g-C3N4 for NOx removal under visible light irradiation. Applied Catalysis B: Environmental, 2018, 239, 16-26.	10.8	185
386	Humidity dependent impedance response of graphene/carbon nanotubes composite. Materials Research Express, 2018, 5, 095028.	0.8	6
387	Photocatalytic performance and antibacterial activity of visible light driven silver iodide anchored on Graphitic-C3N4 binary composite. Environmental Nanotechnology, Monitoring and Management, 2018, 10, 253-263.	1.7	2
388	Reduction of Ce(IV) to Ce(III) induced by structural characteristics and performance characterization of pyrophosphate MgIn2P4O14-based phosphors. Journal of Luminescence, 2018, 203, 590-598.	1.5	9
389	Defect Engineering of Photosensitive Oxide Materials. Example of TiO2 Solid Solutions. Advances in Inorganic Chemistry, 2018, , 1-47.	0.4	5
390	Photocatalytic Activity under Simulated Sunlight of Bi-Modified TiO2 Thin Films Obtained by Sol Gel. International Journal of Photoenergy, 2018, 2018, 1-9.	1.4	15
391	Glycol stabilized magnetic nanoparticles for photocatalytic degradation of xylenol orange. Materials Research Express, 2018, 5, 055509.	0.8	11
392	Insight into crystal structure and Eu/Tb doped luminescence property of a new phosphate. Journal of Alloys and Compounds, 2018, 762, 444-455.	2.8	26
393	Synthesis and Characterisation of Mesoporous TiO2 Nanoparticles by Novel Surfactant Assisted Sol-gel Method for the Degradation of Organic Compounds. Periodica Polytechnica: Chemical Engineering, 2018, 63, 85-95.	0.5	30
394	<i>g</i> ₃ N ₄ â€Modified Waterâ€Crystallized Mesoporous SnO ₂ for Enhanced Photoelectrochemical Properties. Particle and Particle Systems Characterization, 2018, 35, 1800155.	1.2	14
395	Synergistic interplay of Zn and Rh-Cr promoters on Ga2O3 based photocatalysts for water splitting. Physical Chemistry Chemical Physics, 2018, 20, 23515-23521.	1.3	5
396	Bioinspired shape controlled antiferromagnetic Co3O4 with prism like-anchored octahedron morphology: A facile green synthesis using Manihot esculenta Crantz extract. Science and Technology of Materials, 2018, 30, 92-98.	0.8	30
397	A novel photodegradation approach for the efficient removal of natural organic matter (NOM) from water. Physics and Chemistry of the Earth, 2018, 106, 97-106.	1.2	20
398	Scalable Synthesis of Biodegradable Black Mesoporous Silicon Nanoparticles for Highly Efficient Photothermal Therapy. ACS Applied Materials & Interfaces, 2018, 10, 23529-23538.	4.0	35
399	Efficient photodegradation of methylene blue (MB) under solar radiation by ZrC nanoparticles. Advanced Powder Technology, 2018, 29, 2231-2242.	2.0	40
400	Fabrication of visible-light-driven Bi2O3-Bi3TaO7 nanocomposite for tetracycline degradation with enhanced photocatalytic efficiency. Journal of Solid State Chemistry, 2019, 278, 120894.	1.4	28

#	Article	IF	CITATIONS
401	Pt/POMs/TiO ₂ composite nanofibers with an enhanced visible-light photocatalytic performance for environmental remediation. Dalton Transactions, 2019, 48, 13353-13359.	1.6	37
402	Revisiting the optical bandgap of semiconductors and the proposal of a unified methodology to its determination. Scientific Reports, 2019, 9, 11225.	1.6	215
403	Electrodeposition of Silver Vanadate Films: A Tale of Two Polymorphs. ChemPhysChem, 2019, 20, 2635-2646.	1.0	10
404	Multi-layered porous hierarchical TiO2/g-C3N4 hybrid coating for enhanced visible light photocatalysis. Applied Surface Science, 2019, 495, 143435.	3.1	62
405	Cross-linked bond accelerated interfacial charge transfer in monolayer zinc indium sulfide (ZnIn2S4)/reduced graphene oxide (RGO) heterostructure for photocatalytic hydrogen production with mechanistic insight. Catalysis Science and Technology, 2019, 9, 4066-4076.	2.1	26
406	Tunable blue-green emission and energy transfer properties in Ba2SiO4:Tb3+ obtained from sol-gel method. Journal of Luminescence, 2019, 214, 116604.	1.5	18
407	Highly efficient visible photocatalytic degradation of MB organic dye by heteromorphic ZnO/AZO/ZnO nanocatalysts: effect of AZO thickness. Journal of Sol-Gel Science and Technology, 2019, 92, 25-39.	1.1	14
408	Removal enhancement of acid navy blue dye by GO - TiO2 nanocomposites synthesized using sonication method. Materials Chemistry and Physics, 2019, 238, 121906.	2.0	34
409	Insights into charge transfer and solar light photocatalytic activity induced by the synergistic effect of defect state and plasmon in Au nanoparticle-decorated hierarchical 3D porous ZnO microspheres. Applied Surface Science, 2019, 494, 959-968.	3.1	24
410	Ultra fast metal-free reduction catalyst of partial oxidized violet phosphorus synthesized via controlled mechanical energy. 2D Materials, 2019, 6, 045039.	2.0	8
411	Structure and luminescent properties of new Dy3+/Eu3+/Sm3+-activated InNbTiO6 phosphors for white UV-LEDs. Optical Materials, 2019, 98, 109403.	1.7	20
412	Structure and Band Alignment Engineering of CdS/TiO ₂ /Bi ₂ WO ₆ Trilayer Nanoflake Array for Efficient Photoelectrochemical Water Splitting. ChemElectroChem, 2019, 6, 5248-5254.	1.7	15
413	Fabrication and characterizations of bismuth-magnesium-scandium-germanium-coupled titanium dioxide fluorescent composition for reducing the heavy oil viscosity. Journal of Luminescence, 2019, 215, 116679.	1.5	2
414	Evaluating the photocatalytic efficiency of the BiVO4/rGO photocatalyst. Scientific Reports, 2019, 9, 16091.	1.6	78
415	Synthesis and characterization of ceria-coated silica nanospheres: their application in heterogeneous catalysis of organic pollutants. SN Applied Sciences, 2019, 1, 1.	1.5	12
416	Chemical bonding mechanism in SERS effect of pyridine by CuO nanoparticles. Journal of Raman Spectroscopy, 2019, 50, 1395-1404.	1.2	5
417	Nanotechnology in Roman Opaque Red Glass from the 2nd Century AD. Archaeometric Investigation in Red Sectilia from the Decoration of the Lucius Verus Villa in Rome. Heritage, 2019, 2, 2597-2611.	0.9	11
418	Structure–Function Correlations in Sputter Deposited Gold/Fluorocarbon Multilayers for Tuning Optical Response. Nanomaterials, 2019, 9, 1249.	1.9	12

#	Article	IF	CITATIONS
419	Effect of Cr Doping on Visible-Light-Driven Photocatalytic Activity of ZnO Nanoparticles. Journal of Electronic Materials, 2019, 48, 7378-7388.	1.0	17
420	Tape casting and phase inversion derived easily recyclable PVDF@g-C3N4/Bi2W0.98Nb0.02O6 porous film for high performance and long-term photocatalytic pollutants degradation. Applied Surface Science, 2019, 496, 143731.	3.1	19
421	Comparative photocatalytic behavior of photocatalysts (TiO2, SiC, Bi2O3, ZnO) for transformation of glycerol to value added compounds. Korean Journal of Chemical Engineering, 2019, 36, 1527-1535.	1.2	12
422	Synthesis and characterization of AZrTi2O7 (A = mg, ca, Sr and Ba) functional nanoceramics. Journal of Electroceramics, 2019, 43, 1-9.	0.8	1
423	An electrochemically and optically stable electrochromic polymer film based on EDOT and 1,2,3,4-tetrahydrophenazine. Organic Electronics, 2019, 75, 105398.	1.4	14
424	A microfluidic photoelectrochemical cell for solar-driven CO ₂ conversion into liquid fuels with CuO-based photocathodes. Faraday Discussions, 2019, 215, 329-344.	1.6	28
425	High anatase purity of nitrogen-doped TiO2 nanorice particles for the photocatalytic treatment activity of pharmaceutical wastewater. Applied Surface Science, 2019, 478, 1-14.	3.1	59
426	Combined theoretical and experimental characterizations of semiconductors for photoelectrocatalytic applications. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2019, 40, 212-233.	5.6	29
427	Mesoporous anatase crystal-silica nanocomposites with large intrawall mesopores presenting quite excellent photocatalytic performances. Applied Catalysis B: Environmental, 2019, 246, 284-295.	10.8	21
428	One-Pot Ionothermal Synthesized Carbon Nitride Heterojunction Nanorods for Simultaneous Photocatalytic Reduction and Oxidation Reactions: Synergistic Effect and Mechanism Insight. ACS Sustainable Chemistry and Engineering, 2019, 7, 5122-5133.	3.2	53
429	Hydrothermal improvement for 3R-CuFeO2 delafossite growth by control of mineralizer and reaction atmosphere. Journal of Solid State Chemistry, 2019, 271, 314-325.	1.4	17
430	TiO ₂ nanotrees for the photocatalytic and photoelectrocatalytic phenol degradation. New Journal of Chemistry, 2019, 43, 11050-11056.	1.4	25
431	Ag2CO3-halloysite nanotubes composite with enhanced removal efficiency for water soluble dyes. Heliyon, 2019, 5, e01969.	1.4	28
432	Uniform Zn ²⁺ -Doped BiOI Microspheres Assembled by Ultrathin Nanosheets with Tunable Oxygen Vacancies for Super-Stable Removal of NO. Journal of Physical Chemistry C, 2019, 123, 16268-16280.	1.5	91
433	Synthesis of Spherical TiO2 Particles with Disordered Rutile Surface for Photocatalytic Hydrogen Production. Catalysts, 2019, 9, 491.	1.6	17
434	Continuous flow-based laser-assisted plasmonic heating: A new approach for photothermal energy conversion and utilization. Applied Energy, 2019, 247, 517-524.	5.1	27
435	Synthesis and studies of ZnO doped with g-C3N4 nanocomposites for the degradation of tetracycline hydrochloride under the visible light irradiation. Journal of Environmental Chemical Engineering, 2019, 7, 103152.	3.3	23
436	Influence of Ca-doped NaNbO3 and its heterojunction with g-C3N4 on the photoredox performance. Solar Energy, 2019, 185, 469-479.	2.9	44

#	Article	IF	CITATIONS
437	Photosensitizers based on Ir(III) complexes for highly efficient photocatalytic hydrogen generation. Dyes and Pigments, 2019, 170, 107547.	2.0	17
438	Construction of Ni-doped belt-on-belt TiO2 thin film to assist photodegradation of rhodamine B in water. Thin Solid Films, 2019, 683, 111-117.	0.8	11
440	Effect of particle size on the photocatalytic activity of modified rutile sand (TiO2) for the discoloration of methylene blue in water. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 378, 136-141.	2.0	44
441	A highly efficient UV-emitting Mg3Y2Ge3O12:Bi3+ crystal as a fluorescent irradiation source for use in heavy oil viscosity reduction. Journal of Materials Science: Materials in Electronics, 2019, 30, 7095-7102.	1.1	10
442	Role of f Electrons in the Optical and Photoelectrochemical Behavior of Ca(La _{1–<i>x</i>} Ce _{<i>x</i>}) ₂ S ₄ (0 ≤i>x ≤). Inorganic Chemistry, 2019, 58, 4553-4560.	1.9	2
443	Synthesis of Bi ₃ TaO ₇ –Bi ₄ TaO ₈ Br composites in ambient air and their high photocatalytic activity upon metal loading. Dalton Transactions, 2019, 48, 7110-7116.	1.6	20
444	Preparation of Visible Light Photocatalytic Graphene Embedded Rutile Titanium(IV) Oxide Composite Nanowires and Enhanced NOx Removal. Catalysts, 2019, 9, 170.	1.6	39
445	Assessment of toxicity reduction in ZnS substituted CdS:P3HT bulk heterojunction solar cells fabricated using a single-source precursor deposition. Sustainable Energy and Fuels, 2019, 3, 948-955.	2.5	4
446	Evaluation of cryo-treatment in the luminescent properties of PVDF/Eu2O3 composite obtained by using buriti oil as additive. Solid State Sciences, 2019, 92, 24-30.	1.5	7
447	Morphological, optical and electrical properties of spray coated zinc ethyl xanthates for decomposition within a poly(3-hexylthiophene-2,5-diyl) matrix. E3S Web of Conferences, 2019, 80, 03012.	0.2	2
448	Enhanced visible-light-driven photocatalytic properties of acceptor dopant Nb5+ modified Bi2WO6 by tailoring the morphology from 3D hierarchical microspheres to 2D nanosheets. Applied Surface Science, 2019, 484, 112-123.	3.1	34
449	Reactant activation and photocatalysis mechanisms on Bi-metal@Bi2GeO5 with oxygen vacancies: A combined experimental and theoretical investigation. Chemical Engineering Journal, 2019, 370, 1366-1375.	6.6	141
450	(Photo)catalyst Characterization Techniques. , 2019, , 87-152.		74
451	The role of Al concentration on improving the photocatalytic performance of nanostructured ZnO/ZnO:Al/ZnO multilayer thin films. Journal of Alloys and Compounds, 2019, 788, 289-301.	2.8	65
452	Zn-doped Nb2O5 photocatalysts driven by visible-light: An experimental and theoretical study. Materials Chemistry and Physics, 2019, 228, 160-167.	2.0	32
453	Impact of antisolvent treatment and of the substitution of the ion FA by the ion Cs on the properties of CsXFA1-XPbI3 films prepared by spin coating. , 2019, , .		0
454	Absorption and Remission Characterization of Pure, Dielectric (Nano-)Powders Using Diffuse Reflectance Spectroscopy: An End-To-End Instruction. Applied Sciences (Switzerland), 2019, 9, 4933.	1.3	37
455	Role of adsorbed water in inducing electron accumulation in InN. Journal of Applied Physics, 2019, 126,	1.1	6

	Article	IF	CITATIONS
456	Photocatalytic activity of exfoliated graphite–TiO ₂ nanoparticle composites. Nanoscale, 2019, 11, 19301-19314.	2.8	18
457	Transformation pathway and toxic intermediates inhibition of photocatalytic NO removal on designed Bi metal@defective Bi2O2SiO3. Applied Catalysis B: Environmental, 2019, 241, 187-195.	10.8	158
458	ZnO-coated SiO2 nanocatalyst preparation and its photocatalytic activity over nitric oxides as an alternative material to pure ZnO. Applied Surface Science, 2019, 473, 40-48.	3.1	23
459	PPECu/NiFe2O4 as an efficient visible-light-driven difunctional photocatalyst for degradation of PPCPs and hydrogen production. Journal of Alloys and Compounds, 2019, 780, 534-539.	2.8	10
460	Photoelectrochemical, photocatalytic and photochromic performance of rGO-TiO2WO3 composites. Materials Chemistry and Physics, 2019, 224, 217-228.	2.0	22
461	Effect of Mesoporous TiO2 Thicknesses on the Performance of Solid-State Dye-Sensitized Solar Cells. Journal of Electronic Materials, 2019, 48, 696-704.	1.0	7
462	Photoelectrochemical water splitting properties of CdS/TiO2 nanofibers-based photoanode. Journal of Materials Science: Materials in Electronics, 2019, 30, 926-932.	1.1	7
463	Ameliorating the photovoltaic conversion efficiency of ZnO nanorod based dye-sensitized solar cells by strontium doping. Superlattices and Microstructures, 2019, 128, 14-22.	1.4	21
464	Preparation and photocatalytic activity of CuO/ZnO composite nanostructured films. Materials Research Express, 2019, 6, 015035.	0.8	12
465	<pre>cmmi:math xmins:mmi= http://www.ws.org/1998/Math/Math/Math/Math/Math/Math/Math/Math</pre>	< m tri: mo>	•+⊲ / 8nml:mo
466	Preparation, properties and electronic structure of SnO2. , 2019, , 547-572.		9
466 467	Preparation, properties and electronic structure of SnO2. , 2019, , 547-572. Nanostructured copper (II) oxide and its novel reduction to stable copper nanoparticles. Journal of Physics and Chemistry of Solids, 2019, 124, 250-260.	1.9	9 16
466 467 468	Preparation, properties and electronic structure of SnO2., 2019, 547-572. Nanostructured copper (II) oxide and its novel reduction to stable copper nanoparticles. Journal of Physics and Chemistry of Solids, 2019, 124, 250-260. Spectroscopic studies and lasing potentialities of Sm3+ ions doped single alkali and mixed alkali fluoro tungstentellurite glasses. Optics and Laser Technology, 2019, 111, 176-183.	1.9 2.2	9 16 41
466 467 468 469	Preparation, properties and electronic structure of SnO2., 2019, 547-572. Nanostructured copper (II) oxide and its novel reduction to stable copper nanoparticles. Journal of Physics and Chemistry of Solids, 2019, 124, 250-260. Spectroscopic studies and lasing potentialities of Sm3+ ions doped single alkali and mixed alkali fluoro tungstentellurite glasses. Optics and Laser Technology, 2019, 111, 176-183. MoS2Tio2 Mixture: A Modification Strategies of Tio2 Nanoparticles to Improve Photocatalytic Activity Under Visible Light. Current Environmental Management, 2020, 6, 245-255.	1.9 2.2 0.7	9 16 41 2
466 467 468 469 470	Preparation, properties and electronic structure of SnO2., 2019,, 547-572. Nanostructured copper (II) oxide and its novel reduction to stable copper nanoparticles. Journal of Physics and Chemistry of Solids, 2019, 124, 250-260. Spectroscopic studies and lasing potentialities of Sm3+ ions doped single alkali and mixed alkali fluoro tungstentellurite glasses. Optics and Laser Technology, 2019, 111, 176-183. MoS2Tio2 Mixture: A Modification Strategies of Tio2 Nanoparticles to Improve Photocatalytic Activity Under Visible Light. Current Environmental Management, 2020, 6, 245-255. Comprehensive study on the electronic and optical properties of α-U3O8. Computational Materials science, 2020, 171, 109264.	1.9 2.2 0.7 1.4	9 16 41 2 9
466 467 468 469 470 471	Preparation, properties and electronic structure of SnO2., 2019, , 547-572.Nanostructured copper (II) oxide and its novel reduction to stable copper nanoparticles. Journal of Physics and Chemistry of Solids, 2019, 124, 250-260.Spectroscopic studies and lasing potentialities of Sm3+ ions doped single alkali and mixed alkali fluoro tungstentellurite glasses. Optics and Laser Technology, 2019, 111, 176-183.MoS2Tio2 Mixture: A Modification Strategies of Tio2 Nanoparticles to Improve Photocatalytic Activity Under Visible Light. Current Environmental Management, 2020, 6, 245-255.Comprehensive study on the electronic and optical properties of α-U3O8. Computational Materials Science, 2020, 171, 109264.Vibrational spectra and optical properties ofFe1â ⁻² xCrxVO4solid solutions: With a group theory analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 227, 117668.	1.9 2.2 0.7 1.4 2.0	9 16 41 2 9
466 467 468 469 470 471 472	Preparation, properties and electronic structure of SnO2. , 2019, , 547-572. Nanostructured copper (II) oxide and its novel reduction to stable copper nanoparticles. Journal of Physics and Chemistry of Solids, 2019, 124, 250-260. Spectroscopic studies and lasing potentialities of Sm3+ ions doped single alkali and mixed alkali fluoro tungstentellurite glasses. Optics and Laser Technology, 2019, 111, 176-183. MoS2Tio2 Mixture: A Modification Strategies of Tio2 Nanoparticles to Improve Photocatalytic Activity Under Visible Light. Current Environmental Management, 2020, 6, 245-255. Comprehensive study on the electronic and optical properties of α-U3O8. Computational Materials Science, 2020, 171, 109264. Vibrational spectra and optical properties ofFe1â* xCrxVO4solid solutions: With a group theory analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 227, 117668. Features of metal oxide colloidal nanocrystal characterization. , 2020, , 83-122.	1.9 2.2 0.7 1.4 2.0	9 16 41 2 9 3 3
466 467 468 469 470 471 472 473	Preparation, properties and electronic structure of SnO2., 2019, , 547-572.Nanostructured copper (II) oxide and its novel reduction to stable copper nanoparticles. Journal of Physics and Chemistry of Solids, 2019, 124, 250-260.Spectroscopic studies and lasing potentialities of Sm3+ ions doped single alkali and mixed alkali fluoro tungstentellurite glasses. Optics and Laser Technology, 2019, 111, 176-183.MoS2Tio2 Mixture: A Modification Strategies of Tio2 Nanoparticles to Improve Photocatalytic Activity Under Visible Light. Current Environmental Management, 2020, 6, 245-255.Comprehensive study on the electronic and optical properties of α-U3O8. Computational Materials Science, 2020, 171, 109264.Vibrational spectra and optical properties ofFe1â [°] ×CrxVO4solid solutions: With a group theory analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 227, 117668.Features of metal oxide colloidal nanocrystal characterization., 2020, , 83-122.The Influence of pH on Phase and Morphology of BiOIO3 Nanoplates Synthesized by Microwave-Assisted Method and Their Photocatalytic Activities. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 869-878.	1.9 2.2 0.7 1.4 2.0	 9 16 41 2 9 3 5 7

#	Article	IF	CITATIONS
474	Preparation of In2S3 nanosheets decorated KNbO3 nanocubes composite photocatalysts with significantly enhanced activity under visible light irradiation. Separation and Purification Technology, 2020, 230, 115861.	3.9	39
475	Photocatalytic performance of mesoporous composites of TiO2–ZrO2 and phosphotungstic acid. Journal of Materials Science, 2020, 55, 3195-3211.	1.7	9
476	Three-dimensional CdS nanosheet-enwrapped carbon fiber framework: Towards split-type CuO-mediated photoelectrochemical immunoassay. Biosensors and Bioelectronics, 2020, 148, 111836.	5.3	17
477	Evaluation of the heterostructure ITO/BiVO4 under blue monochromatic light irradiation for photoelectrochemical application. Journal of Materials Science: Materials in Electronics, 2020, 31, 2833-2844.	1.1	4
478	Ag-doped TiO2 photocatalysts with effective charge transfer for highly efficient hydrogen production through water splitting. International Journal of Hydrogen Energy, 2020, 45, 2729-2744.	3.8	175
479	BiO nanoparticle loaded on Bi3+-doped ZnWO4 nanorods with oxygen vacancies for enhanced photocatalytic NO removal. Journal of Alloys and Compounds, 2020, 818, 152837.	2.8	25
480	Structural, optical and photocatalytic studies of trimetallic oxides nanostructures prepared via wet chemical approach. Synthetic Metals, 2020, 259, 116228.	2.1	37
481	Enhanced photocatalytic hydrogen evolution using green carbon quantum dots modified 1-D CdS nanowires under visible light irradiation. Solar Energy, 2020, 208, 966-977.	2.9	41
482	Converting cellulose nanocrystals into photocatalysts by functionalisation with titanium dioxide nanorods and gold nanocrystals. RSC Advances, 2020, 10, 37374-37381.	1.7	17
483	Radiation damage induced by reactor neutrons in nano-anatase TiO2 thin film. Radiation Physics and Chemistry, 2020, 177, 109114.	1.4	5
484	Broadband optical power limiting with the decoration of TiO2 nanoparticles on graphene oxide. Optical Materials, 2020, 109, 110366.	1.7	11
485	Preparation of nitrogen-doped aluminium titanate (Al2TiO5) nanostructures: Application to removal of organic pollutants from aqueous media. Advanced Powder Technology, 2020, 31, 3328-3341.	2.0	14
486	Cyclic Voltammetric Study of 2â€Hydroxybenzophenone (HBP) Derivatives and the Correspondent Change in the Orbital Energy Levels in Different Solvents. Electroanalysis, 2020, 32, 2659-2668.	1.5	33
487	Straightforward Synthesis of SnO ₂ /Bi ₂ S ₃ /BiOCl–Bi ₂₄ O ₃₁ Cl _{10Composites for Drastically Enhancing Rhodamine B Photocatalytic Degradation under Visible Light. ACS Omega. 2020. 5. 20438-20449.}	1.6	40
488	Identifying Iron-Bearing Nanoparticle Precursor for Thermal Transformation into the Highly Active Hematite Photo-Fenton Catalyst. Catalysts, 2020, 10, 778.	1.6	5
489	Photocatalytic performance of cementitious materials with addition of red mud and Nb2O5 particles. Construction and Building Materials, 2020, 259, 119851.	3.2	20
490	Solvothermal Synthesis of Mesoporous TiO2 Using Sodium Dodecyl Sulfate for Photocatalytic Degradation of Methylene Blue. Topics in Catalysis, 2020, 63, 1121-1130.	1.3	8
491	Qualitative Approaches Towards Useful Photocatalytic Materials. Frontiers in Chemistry, 2020, 8, 817.	1.8	5

#	Article	IF	CITATIONS
492	Photocatalytic degradation of pharmaceutically active compounds (PhACs) in urban wastewater treatment plants effluents under controlled and natural solar irradiation using immobilized TiO2. Solar Energy, 2020, 208, 480-492.	2.9	31
493	Hydrogen production via microwave-induced water splitting at low temperature. Nature Energy, 2020, 5, 910-919.	19.8	89
494	Aqueous chemical growth of ZnO/CdO nanocomposite thin films: effect of volume ratio and annealing on structural, morphological and optical properties. Journal of Materials Science: Materials in Electronics, 2020, 31, 21222-21232.	1.1	3
495	Orthorhombic SnSe Nanocrystals for Visible-Light Photodetectors. ACS Applied Nano Materials, 2020, 3, 11143-11151.	2.4	44
496	A novel highly selective electrochemical chlorobenzene sensor based on ternary oxide RuO ₂ /ZnO/TiO ₂ nanocomposites. RSC Advances, 2020, 10, 32532-32547.	1.7	19
497	Structural Expansion of Chalcogenido Tetrelates in Ionic Liquids by Incorporation of Sulfido Antimonate Units. Chemistry - A European Journal, 2020, 26, 16683-16689.	1.7	7
498	Synthesis and study of structural, optical, and electrical properties of nontoxic and earth-abundant Na2ZnSnS4 material. Journal of Materials Science: Materials in Electronics, 2020, 31, 18858-18869.	1.1	7
499	Chemical doping of TiO2 Nano-tube array for enhancing hydrogen production through photoelectrochemical water splitting. SN Applied Sciences, 2020, 2, 1.	1.5	1
500	Unravelling the Mechanisms that Drive the Performance of Photocatalytic Hydrogen Production. Catalysts, 2020, 10, 901.	1.6	45
501	Synthesis and Characterization of New Imidazole Phthalocyanine for Photodegradation of Micro-Organic Pollutants from Sea Water. Catalysts, 2020, 10, 906.	1.6	11
502	Electrosynthesis and Properties of Crystalline and Phase-Pure Silver Orthovanadate. Journal of Physical Chemistry C, 2020, 124, 19980-19989.	1.5	8
503	Comparative study on mesoporous M/LaNaTaO3-based photocatalysts (MÂ=ÂAg, In, and Nd) for hydrogen generation. Journal of the Taiwan Institute of Chemical Engineers, 2020, 117, 144-155.	2.7	11
504	The Technology of Copper-Based Red Glass Sectilia from the 2nd Century AD Lucius Verus Villa in Rome. Minerals (Basel, Switzerland), 2020, 10, 875.	0.8	19
505	On the Role of γ-Fe2O3 Nanoparticles and Reduced Graphene Oxide Nanosheets in Enhancing Self-Cleaning Properties of Composite TiO2 for Cultural Heritage Protection. Coatings, 2020, 10, 933.	1.2	4
506	Gallium antimonide phosphide growth using Halide Vapor Phase Epitaxy. Solar Energy Materials and Solar Cells, 2020, 209, 110440.	3.0	1
507	Green synthesis of Ag/TiO ₂ composite coated porous vanadophosphates with enhanced visible-light photo-degradation and catalytic reduction performance for removing organic dyes. Dalton Transactions, 2020, 49, 7920-7931.	1.6	10
508	Singleâ€6tep Preparation of Large Area TiO ₂ Photoelectrodes for Water Splitting. Advanced Energy Materials, 2020, 10, 2000652.	10.2	40
509	Solar-hydrogen production with reduced graphene oxide supported CdxZn1-xS photocatalysts.	3.8	11

#	Article	IF	CITATIONS
510	The multi-analytical in situ analysis of cadmium-based pigments in plastics. Microchemical Journal, 2020, 157, 105004.	2.3	7
511	Reusable CuFe2O4–Fe2O3 catalyst synthesis and application for the heterogeneous photo-Fenton degradation of methylene blue in visible light. Journal of Environmental Chemical Engineering, 2020, 8, 104132.	3.3	30
512	The effect of Fe dopant on structural, optical properties of TiO2 thin films and electrical performance of TiO2 based photodiode. Superlattices and Microstructures, 2020, 145, 106636.	1.4	26
513	Facile one-pot synthesis of heterostructure SnO ₂ /ZnO photocatalyst for enhanced photocatalytic degradation of organic dye. RSC Advances, 2020, 10, 23554-23565.	1.7	71
514	Sulfur Incorporation in Hierarchical TiO ₂ Nanosheet/Carbon Nanotube Hybrids for Improved Lithium Storage Performance. ChemElectroChem, 2020, 7, 2905-2916.	1.7	6
515	Heterostructured TiO ₂ /SiO ₂ /γ-Fe ₂ O ₃ /rGO Coating with Highly Efficient Visible-Light-Induced Self-Cleaning Properties for Metallic Artifacts. ACS Applied Materials & Interfaces, 2020, 12, 29671-29683.	4.0	34
516	Photoluminescence, TGA/DSC and photocatalytic activity studies of Dy ³⁺ doped SrY ₂ O ₄ nanophosphors. RSC Advances, 2020, 10, 21049-21056.	1.7	11
517	Preparation and properties of heteroepitaxial β-Ga2O3 films on KTaO3 (100) substrates by MOCVD. Materials Characterization, 2020, 165, 110391.	1.9	7
518	Influence of Gd3+ substitution and preparation technique on the optical and dielectric properties of Y3Fe5O12 garnet synthesized by standard ceramic and coprecipitation methods. Journal of Materials Science: Materials in Electronics, 2020, 31, 11654-11664.	1.1	9
519	Over 10% Efficient Pure CZTSe Solar Cell Fabricated by Electrodeposition with Ge Doping. Solar Rrl, 2020, 4, 2000059.	3.1	27
521	Visible light sensitization of TiO2/Ag/N nanostructures synthesized by microwave irradiation for oxidative degradation of organic dyes. SN Applied Sciences, 2020, 2, 1.	1.5	6
522	Facile fabrication of mesoporous In2O3/LaNaTaO3 nanocomposites for photocatalytic H2 evolution. International Journal of Hydrogen Energy, 2020, 45, 19214-19225.	3.8	31
523	Acidic Hydrogen Enhanced Photocatalytic Reduction of CO ₂ on Planetary Surfaces. ACS Earth and Space Chemistry, 2020, 4, 1001-1009.	1.2	6
524	Growth of Sb2S3 semiconductor thin film on different morphologies of TiO2 nanostructures. Materials Research Bulletin, 2020, 131, 110980.	2.7	8
525	Magnetically Recoverable TiO2/SiO2/γ-Fe2O3/rGO Composite with Significantly Enhanced UV-Visible Light Photocatalytic Activity. Molecules, 2020, 25, 2996.	1.7	13
526	Photoelectric Properties of a Nanocomposite Derived from Reduced Graphene Oxide and TiO2. Theoretical and Experimental Chemistry, 2020, 55, 398-406.	0.2	6
527	Development of Cu2ZnSnS4 films from a non-toxic molecular precursor ink and theoretical investigation of device performance using experimental outcomes. Solar Energy, 2020, 199, 246-255.	2.9	19
528	Photocatalytic degradation of methylene blue by UVâ€assistant TiO ₂ and natural sericite composites. Journal of Chemical Technology and Biotechnology, 2020, 95, 2715-2722.	1.6	19

#	Article	IF	CITATIONS
529	Photocatalytic Degradation of Congo Red Dye from Aqueous Environment Using Cobalt Ferrite Nanostructures: Development, Characterization, and Photocatalytic Performance. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	114
530	Effect of Ag Co-catalyst on TiO2–Cu2O nanocomposites structure and apparent visible photocatalytic activity. Journal of Environmental Management, 2020, 260, 110175.	3.8	5
531	Effect of Eu3+ on optical and energy bandgap of SrY2O4 nanophosphors for FED applications. Optik, 2020, 208, 164533.	1.4	18
532	Vibrational and optical studies of Na0.45K1.55Cu3(MoO4)4. Chemical Papers, 2020, 74, 3127-3133.	1.0	0
533	Facile combustion synthesis of Sm3+ activated orange-red light emanating Sr6Y2Al4O15 nanophosphor for photonic applications. Journal of Luminescence, 2020, 224, 117277.	1.5	16
534	Exploiting Direct Current Plasma Electrolytic Oxidation to Boost Photoelectrocatalysis. Catalysts, 2020, 10, 325.	1.6	13
535	Hesperidin mediated synthesis, structure and optical emission analysis on nanocrystalline CuO. Materials Today: Proceedings, 2021, 41, 520-524.	0.9	2
536	Chrysin mediated synthesis, crystallographic structure and optical emission characteristics of ZnO nanoparticles. Materials Today: Proceedings, 2021, 41, 590-595.	0.9	4
537	A Versatile Nb ₂ O ₅ /SnO ₂ Heterostructure for Different Environmental Purposes: Water Treatment and Artificial Photosynthesis. ChemCatChem, 2021, 13, 730-738.	1.8	6
538	Facile preparation of ZnO:g-C3N4 heterostructures and their application in amiloride photodegradation and CO2 photoreduction. Journal of Alloys and Compounds, 2021, 856, 156798.	2.8	21
539	The influence of the complexing agent on the luminescence of multicolor-emitting Y2O3:Eu3+,Er3+,Yb3+ phosphors obtained by the Pechini's method. Materials Chemistry and Physics, 2021, 257, 123840.	2.0	14
540	Facile solvothermal synthesis of Cu2ZnSn1-xGexS4 nanocrystals: Effect of Ge content on optical and electrical properties. Materials Chemistry and Physics, 2021, 257, 123764.	2.0	15
541	Sn(II) inserted on hydroxyapatite encapsulated nickel ferrite (NiFe2O4@HAp-Sn2+): A novel nanocomposite for the effective photo-degradation of rhodamine B dye. Journal of Cleaner Production, 2021, 290, 125172.	4.6	24
542	Fabrication of p-Si/n-NiO:Zn photodiodes and current/capacitance-voltage characterizations. Physica B: Condensed Matter, 2021, 603, 412482.	1.3	9
543	Crystallographic and micro-structural investigations in C-phase spinels of CuFe2O4 synthesized through C12H22O11.H2O mediation. Micron, 2021, 141, 102993.	1.1	4
544	Structural, Optical and EPR Study of Zn1â^'xFexO Nanocrystals. Journal of Low Temperature Physics, 2021, 202, 29-47.	0.6	1
545	Photocatalytic properties of SnO2/MoO3 mixed oxides and their relation to the electronic properties and surface acidity. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 407, 113035.	2.0	22
546	Effect of electron-phonon interaction and valence band edge shift for carrier-type reversal in layered ZnS/rGO nanocomposites. Journal of Colloid and Interface Science, 2021, 586, 39-46.	5.0	10

#	Article	IF	CITATIONS
547	lonic Liquidâ€Ðriven Formation of and Cation Exchange in Layered Sulfido Stannates – a CH 2 Group Makes the Difference. ChemistryOpen, 2021, 10, 227-232.	0.9	1
548	Structural, optoelectronic and photo-thermoelectric properties of crystalline alloy CuAlxFe1-xO2 delafossite oxide materials. Journal of Alloys and Compounds, 2021, 857, 157613.	2.8	8
549	Layered Nanocomposite 2D-TiO2 with Cu2O Nanoparticles as an Efficient Photocatalyst for 4-Chlorophenol Degradation and Hydrogen Evolution. Topics in Catalysis, 2021, 64, 167-180.	1.3	12
550	Blueâ€lightâ€excited NaCe(MoO 4) 2 microcrystals for photoelectrochemical water splitting. International Journal of Applied Ceramic Technology, 2021, 18, 615-621.	1.1	3
551	α-Fe2O3-based nanocomposites: synthesis, characterization, and photocatalytic response towards wastewater treatment. Environmental Science and Pollution Research, 2021, 28, 17697-17711.	2.7	15
552	Nuclearity growth of new Pd ^{II} complexes induced by the electronic effect of selenium-containing ligands. New Journal of Chemistry, 2021, 45, 19255-19263.	1.4	3
553	SÃntese e caracterização de nanocompósitos de caulinita e TiO2 utilizando o método dos precursores poliméricos. Revista Materia, 2021, 26, .	0.1	0
554	Synthesis and characterization of titanium dioxide and titanium dioxide–based materials. , 2021, , 87-165.		3
555	Daylight-White-Emitting and Abnormal Thermal Antiquenching Phosphors Based on a Layered Host Srln ₂ (P ₂ O ₇) ₂ . Inorganic Chemistry, 2021, 60, 2279-2293.	1.9	30
556	Degradation of anti-inflammatory drug diclofenac using cobalt ferrite as photocatalyst. Chemical Engineering Research and Design, 2021, 166, 237-247.	2.7	20
557	display="inline" id="d1e630" altimg="si26.svg"> <mml:msub><mml:mrow /><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:mrow </mml:msub> Ga <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e638" altimg="si27.svg"><mml:msub><mml:mrow< td=""><td>2.0</td><td>3</td></mml:mrow<></mml:msub></mml:math 	2.0	3
558	/> <mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow> Hexavalent Chromium Removal via Photoreduction by Sunlight on Titanium–Dioxide Nanotubes Formed by Anodization with a Fluorinated Glycerol–Water Electrolyte. Catalysts, 2021, 11, 376.	1.6	ath>Sb 16
559	Unusual photodegradation reactions of Asteraceae and Poaceae grass pollen enzymatic extracts on P25 photocatalyst. Environmental Science and Pollution Research, 2021, 28, 24206-24215.	2.7	3
560	Manufacturing of Photoactive β-Bismuth Oxide by Flame Spray Oxidation. Journal of Thermal Spray Technology, 2021, 30, 1107-1119.	1.6	3
561	Effect of chelation in alkoxide precursors of niobium oxide nanoparticles on photochemical degradation of rhodamine B. Journal of Sol-Gel Science and Technology, 2021, 98, 319-334.	1.1	1
562	The Influence of the Ratio of Au and Pt Nanoparticles in Ternary Composites with TiO2. Metals, 2021, 11, 628.	1.0	1
563	Multi-component Zn2SnO4/MoS2/Ag/AgCl for enhancing solar-driven photoelectrocatalytic activity. Applied Surface Science, 2021, 544, 148922.	3.1	11
564	Cyan-emitting Ba0.45Ca2.5La6(SiO4)6: 0.05 Eu2+ and Ba1.45Ca1.5La6(SiO4)6:0.05 Eu2+ solid-solution phosphors for white light-emitting diodes. Ceramics International, 2021, 47, 12348-12356.	2.3	15

#	Article	IF	CITATIONS
565	The impact of Au nanoparticles and lanthanide-doped NaYF4 on the photocatalytic activity of titania photocatalyst. Applied Surface Science, 2021, 547, 149123.	3.1	7
566	Molecular and Polymeric Metal(II) chalcogenolate clusters: synthesis and structural characterization. Journal of Molecular Structure, 2021, 1232, 130083.	1.8	1
567	Mapping the electronic structure of polypyrrole with imageâ€based electrochemical scanning tunneling spectroscopy. Electrochemical Science Advances, 0, , e2100028.	1.2	1
568	Photo-catalytic oxidation of gaseous toluene by Z-scheme Ag3PO4-g-C3N4 composites under visible light: Removal performance and mechanisms. Catalysis Today, 2021, , .	2.2	5
569	New 2, 5-aromatic disubstituted pyrroles, prepared using diazonium salts procedures. Journal of Molecular Structure, 2021, 1233, 130107.	1.8	2
570	Nanoremediation: Sunlight mediated dye degradation using electrospun PAN/CuO–ZnO nanofibrous composites. Environmental Pollution, 2021, 280, 116964.	3.7	18
571	Facile synthesis of nitrogen-vacancy pothole-rich few-layer g-C3N4 for photocatalytic nitrogen fixation into nitrate and ammonia. Journal of Alloys and Compounds, 2021, 870, 159298.	2.8	28
572	Bis(2-pyridyl)ditellane as a Precursor for [HgTe]-Based Clusters and Zwitterionic Compounds. Journal of Cluster Science, 0, , 1.	1.7	3
573	Perovskite Zinc Titanate Photocatalysts Synthesized by the Sol–Gel Method and Their Application in the Photocatalytic Degradation of Emerging Contaminants. Catalysts, 2021, 11, 854.	1.6	21
574	Green synthesized Ag-TiO ₂ for degradation of organic dye through visible light driven photo-reactor and its kinetics. International Journal of Chemical Reactor Engineering, 2021, 19, 893-900.	0.6	8
575	A novel design of porous Cr2O3@ZnO nanocomposites as highly efficient photocatalyst toward degradation of antibiotics: A case study of ciprofloxacin. Separation and Purification Technology, 2021, 266, 118588.	3.9	40
576	Effect of the TiO 2 Nanocrystal Dispersion Over SBAâ€15 in the Photocatalytic H 2 Production Using Ethanol as Electron Donor. Advanced Sustainable Systems, 0, , 2100133.	2.7	9
577	Effect of TiO2 nanorod thickness on optical properties of Ba0.8Sr0.2TiO3 film via hydrothermal method. Journal of Solid State Electrochemistry, 2021, 25, 2429-2441.	1.2	1
578	Effects of the silver nanodots on the photocatalytic activity of mixedâ€phase TiO ₂ . Journal of the American Ceramic Society, 2022, 105, 336-347.	1.9	3
579	A comprehensive research on BiFeO3/TiO2 nanocomposite synthesized via thermal treatment/hydrolysis precipitation method. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	3
580	Effect of the Heat Treatment Sequence in Forming WO3/SnO2/CuO Nanocomposites on the Photocatalytic Properties Illuminated by UV and Sunlight Irradiation. Journal of Electronic Materials, 2021, 50, 7150-7164.	1.0	Ο
581	Optical, Electrochemical, and Photoelectrochemical Behavior of Copper Pyrovanadate: A Unified Theoretical and Experimental Study. Journal of Physical Chemistry C, 2021, 125, 19609-19620.	1.5	4
582	Enhanced visible light photo-Fenton-like degradation of tetracyclines by expanded perlite supported FeMo3Ox/g-C3N4 floating Z-scheme catalyst. Journal of Hazardous Materials, 2022, 424, 127387.	6.5	83

#	Article	IF	CITATIONS
583	Mesoporous BiVO4/2D-g-C3N4 heterostructures for superior visible light-driven photocatalytic reduction of Hg(II) ions. Ceramics International, 2021, 47, 26063-26073.	2.3	26
584	Realization of high electric performance in Aurivillius ferroelectrics via combining chemical substitution and the construction of new-type solid solution systems. Journal of the European Ceramic Society, 2022, 42, 119-128.	2.8	11
585	Accurate band gap determination of chemically synthesized cobalt ferrite nanoparticles using diffuse reflectance spectroscopy. Advanced Powder Technology, 2021, 32, 3706-3716.	2.0	17
586	Construction of 0D/2D composites heterostructured of CdTe QDs/ZnO hybrid layers to improve environmental remediation by a direct Z-scheme. Catalysis Communications, 2021, 159, 106352.	1.6	7
587	Influence of anodizing variables on Cr(VI) photocatalytic reduction using TiO2 nanotubes obtained by anodic oxidation. Environmental Nanotechnology, Monitoring and Management, 2021, 16, 100537.	1.7	1
588	Selective photocatalytic conversion of guaiacol using g-C3N4 metal free nanosheets photocatalyst to add-value products. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 421, 113513.	2.0	5
589	Recent advances in non-metal doped titania for solar-driven photocatalytic/photoelectrochemical water-splitting. Journal of Energy Chemistry, 2022, 66, 529-559.	7.1	70
590	Electrical and optical characterization of Os-substituted rare-earth orthoferrite YbFeO3-γ powders. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	8
591	Bismuth Oxyhalides for NOx Degradation under Visible Light: The Role of the Chloride Precursor. Catalysts, 2021, 11, 81.	1.6	4
592	Investigation of the properties of oxide-based multilayer thin films and their use in the photocatalytic applications. , 2021, , 697-715.		0
593	On the analysis of diffuse reflectance measurements to estimate the optical properties of amorphous porous carbons and semiconductor/carbon catalysts. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 398, 112622.	2.0	72
594	Temperature-Dependent Ultrafast Spectral Response of FAPb(Br0.4I0.6)3 Nanocrystals. Journal of Physical Chemistry C, 2021, 125, 1157-1166.	1.5	7
595	Ionic conduction properties of nanocrystalline Er2Ti2O7 functional material. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2020, 23, 52-59.	0.3	2
596	PREPARATION AND CHARACTERIZATION OF Cu-Fe/TiO2 PHOTOCATALYST FOR VISIBLE LIGHT DEEP DESULFURIZATION. Malaysian Journal of Analytical Sciences, 2016, 20, 713-725.	0.2	8
597	INFLUENCE OF PRECURSOR COMPOSITION ON OPTOELECTRIC AND PHOTOCATALYTIC PROPERTIES OF TIO2 AND WO3 FILMS. Environmental Engineering and Management Journal, 2011, 10, 1191-1196.	0.2	4
598	ZnO:Eu Filmlerinin Mikroyapısal ve Optik Özellikleri. Karadeniz Fen Bilimleri Dergisi, 2018, 8, 141-153.	0.1	3
599	Study of COD Removal Efficiency from Synthetic Wastewater by Photocatalytic Process. Environmental Engineering Research, 2014, 19, 255-259.	1.5	9
600	Photocatalytic Reduction of Aqueous Cr(VI) with CdS under Visible Light Irradiation: Effect of Particle Size. Bulletin of Chemical Reaction Engineering and Catalysis, 2017, 12, 62.	0.5	8

#	Article	IF	CITATIONS
601	High-Performance Room-Light-Driven Î ² -AgVO3/mpg-C3N4 Core/Shell Photocatalyst Prepared by Mechanochemical Method. Advances in Chemical Engineering and Science, 2021, 11, 290-315.	0.2	3
602	Iron-Doped ZnO Nanoparticles as Multifunctional Nanoplatforms for Theranostics. Nanomaterials, 2021, 11, 2628.	1.9	25
603	Fabricating Ag/PW ₁₂ /Zrâ€ <i>m</i> TiO ₂ Composite via Doping and Interface Engineering: An Efficient Catalyst with Bifunctionality in Photo―and Electroâ€Driven Nitrogen Reduction Reactions. Advanced Sustainable Systems, 2022, 6, 2100307.	2.7	9
604	Preparation of Hollow Titanium Dioxide Shell Thin Films from Aqueous Solution of Ti-Lactate Complex for Dye-Sensitized Solar Cells. , 0, , .		0
605	Synthesis and Optical Property of a TiOF2 Powder via an Ultrasonic Spray Pyrolysis Process. Journal of Korean Powder Metallurgy Institute, 2016, 23, 307-310.	0.2	1
606	Synthesis and Optical Property of GaN Powder Using an Ultrasonic Spray Pyrolysis Process and Subsequent Nitridation Treatment. Journal of Korean Powder Metallurgy Institute, 2018, 25, 482-486.	0.2	0
608	Altering magnetic and optical features of rare earth orthoferrite LuFeO3 ceramics via substitution of Ir into Fe sites. Journal of Solid State Chemistry, 2022, 305, 122701.	1.4	6
609	C-doped TiO2 nanotubes with pulsed laser deposited Bi2O3 films for photovoltaic application. Ceramics International, 2021, , .	2.3	2
610	Use and misuse of the Kubelka-Munk function to obtain the band gap energy from diffuse reflectance measurements. Solid State Communications, 2022, 341, 114573.	0.9	177
611	Copper sulfide nanostructures: easy synthesis, photocatalytic and doxorubicin anticancer drug delivery applications. New Journal of Chemistry, 2021, 45, 22344-22353.	1.4	5
613	Enhancement of photoconversion efficiency and light harvesting ability of TiO2 nanotube-arrays with Cu2ZnSnS4. International Journal of Hydrogen Energy, 2022, 47, 31003-31013.	3.8	3
614	Copper and silver substituted MnO2 nanostructures with superior photocatalytic and antimicrobial activity. Ceramics International, 2022, 48, 4930-4939.	2.3	36
615	Lactose monohydrate (C ₁₂ H ₂₂ O ₁₁ · H ₂ O) mediated synthesis and spectral analysis of nanocrystalline Ni _{0.5} Cu _{0.5} Fe ₂ O ₄ . International Journal of Materials Research, 0, , .	0.1	0
616	Relationship between gCN structure and photocatalytic water splitting efficiency. Carbon, 2022, 187, 462-476.	5.4	21
617	Thermo-Optical Characterization of Cu- and Zr-Modified TiO2 Photocatalysts by Beam Deflection Spectrometry. Applied Sciences (Switzerland), 2021, 11, 10937.	1.3	9
618	Electronic Doping Strategy in Perovskite Solar Cells. , 2021, , 1-56.		1
619	Detailed Study of Reactively Sputtered ScN Thin Films at Room Temperature. SSRN Electronic Journal, 0, , .	0.4	0
620	Red-emitting BaAl2O4:Eu3+Âsynthesized via Pechini and sol–gel routes: a comparison of luminescence and structure. Journal of Materials Science, 2022, 57, 170-184.	1.7	1

#	Article	IF	CITATIONS
621	Crystallographic studies and optical analysis on nanocrystalline CrxFe2â^'xO3 (0.0Ââ‰ÅxÂâ‰Å2.0) synthesized through hesperidin mediation. Journal of Crystal Growth, 2022, 581, 126513.	0.7	0
622	Development of electrically conductive ZrO2-CaO-Fe2O3-V2O5 glass and glass-ceramics as a new cathode active material for Na-ion batteries with high performance. Journal of Alloys and Compounds, 2022, 899, 163309.	2.8	4
623	Enhancement of photocatalytic properties of nanosized La2Ti2O7 synthesized by glycine-assisted sol-gel route. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 426, 113739.	2.0	5
624	Photocatalytic degradation of acetaminophen in water via ultraviolet light and titanium dioxide thin films part II: chemical and kinetic aspects. International Journal of Chemical Reactor Engineering, 2022, 20, 113-127.	0.6	3
625	P=O Functionalized Black Phosphorus/1T-WS2 Nanocomposite High Efficiency Hybrid Photocatalyst for Air/Water Pollutant Degradation. International Journal of Molecular Sciences, 2022, 23, 733.	1.8	9
626	Optical Properties of Inorganic Halide Perovskite Nanorods: Role of Anisotropy, Temperature, Pressure, and Nonlinearity. Journal of Physical Chemistry C, 2022, 126, 2003-2012.	1.5	9
627	Photoelectrochemical quantification of hydrogen peroxide with g-C3N4/BiFeO3. Sensors and Actuators Reports, 2022, 4, 100079.	2.3	4
628	Tendentious multiple sites occupation towards white light emission in single-phase Ba2(1-/3)Ca(1-/3)Sr B2Si4O14:Eu2+ phosphors. Journal of Solid State Chemistry, 2022, 309, 122963.	1.4	9
629	Removal of ciprofloxacin applying Pt@BiVO4-g-C3N4 nanocomposite under visible light. Optical Materials, 2022, 124, 111976.	1.7	15
630	Synthesis of p–n heterojunction SrFeO3â^'x/TiO2 via thermal treatment/hydrolysis precipitation method with enhanced visibleâ€light activity. Journal of Materials Science: Materials in Electronics, 2022, 33, 5790-5805.	1.1	4
631	Tuning the Optical Property of Tiania Nanotubes Array Using CDS Microemulsion Sensitization for Enhanced Photocatalytic Activity. SSRN Electronic Journal, 0, , .	0.4	0
632	Comprehensive physicochemical and photovoltaic analysis of different Zn substitutes (Mn, Mg, Fe, Ni,) Tj ETQq1 1	. 0.78431 5.2	4 _{.f} gBT /Ove
633	Purely Electronic Optical Transition and Direct Band Gap of a Semiconductor. Journal of Applied Spectroscopy, 2022, 89, 35-42.	0.3	2
634	Improving the Structural, Optical and Photovoltaic Properties of Sb- and Bi- Co-Doped MAPbBr3 Perovskite Solar Cell. Coatings, 2022, 12, 386.	1.2	12
635	Photocatalytic performance of alkali metal doped graphitic carbon nitrides and Pd-alkali metal doped graphitic carbon nitride composites. Diamond and Related Materials, 2022, 125, 109006.	1.8	14
636	Detailed study of reactively sputtered ScN thin films at room temperature. Materialia, 2022, 22, 101375.	1.3	5
637	Modified soil scattering coefficients for organic matter inversion based on Kubelka-Munk theory. Geoderma, 2022, 418, 115845.	2.3	8
638	Interface Optimization and Transport Modulation of Sm2O3/InP Metal Oxide Semiconductor Capacitors with Atomic Layer Deposition-Derived Laminated Interlayer. Nanomaterials, 2021, 11, 3443.	1.9	4

#	Article	IF	CITATIONS
641	Evaluation of band gap energy of TiO2 precipitated from titanium sulphate. Physica B: Condensed Matter, 2022, 639, 414008.	1.3	21
642	VERTICAL PURE ELECTRONIC OPTICAL TRANSITION AND SEMICONDUCTOR DIRECT BAND GAP. , 2022, 89, 43-50.		1
643	On the Absorption and Photoluminescence Properties of Pure ZnSe and Co-Doped ZnSe:Eu3+/Yb3+ Crystals. Applied Sciences (Switzerland), 2022, 12, 4248.	1.3	4
644	Luminescent Properties of Colloidal Ag2S Quantum Dots for Photocatalytic Applications. Physics of the Solid State, 0, , .	0.2	0
645	Facile synthesis of W1-yFeyO3@NiO@RGO ternary nanohybrid with enhanced sunlight mediated photocatalytic and bactericidal activities for water purification. FlatChem, 2022, 34, 100380.	2.8	19
646	Multifunctional Fe and Gd co-doped CeO2-RGO nanohybrid with excellent solar light mediated crystal violet degradation and bactericidal activity. Synthetic Metals, 2022, 287, 117093.	2.1	30
648	Ag nanoparticles/PbTiO3 with in-situ photocatalytic process and its application in an ultra-sensitive molecularly imprinted hemoglobin detection. Colloids and Surfaces B: Biointerfaces, 2022, 217, 112641.	2.5	2
649	Fabrication of highly stabilized Zr Doped g-C3N4/Nb2O5 heterojunction and its enhanced photocatalytic performance for pollutants degradation under visible light irradiation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 649, 129474.	2.3	6
650	High-Entropy Oxide Glasses Tio2-Ta2o5-Nb2o5-Wo3-Mox (M=La/Sm/Eu/Tb/Dy) with High Refractive Index. SSRN Electronic Journal, 0, , .	0.4	0
651	Silver Trimolybdate (Ag2Mo3O10.2H2O) Nanorods: Synthesis, Characterization, and Photo-Induced Antibacterial Activity under Visible-Light Irradiation. Bioinorganic Chemistry and Applications, 2022, 2022, 1-9.	1.8	2
652	Photocatalytic and mechanical properties of immobilized nanotubular TiO2 photocatalysts obtained by anodic oxidation: a novel combined analysis. Photochemical and Photobiological Sciences, 0, , .	1.6	0
653	CdS Nanorods with an Optimized ZnS Coating as Composite Photocatalysts for Enhanced Water Splitting under Solar Light Irradiation. ACS Applied Nano Materials, 2022, 5, 9747-9753.	2.4	5
654	Value-added fabrication of NiO-doped CuO nanoflakes from waste flexible printed circuit board for advanced photocatalytic application. Scientific Reports, 2022, 12, .	1.6	7
655	TiO2/SiO2 dopant-free nanophotocatalysts for highly efficient photocatalytic water splitting: Challenging traditional TiO2-based systems. Journal of Molecular Structure, 2022, 1269, 133792.	1.8	4
656	Synthesis and application of MoS2 quantum dots-decorated ZnO nanoparticles for the fabrication of loose nanofiltration membranes with improved filtration, anti-fouling, and photocatalytic performance. Chemical Engineering Research and Design, 2022, 185, 391-406.	2.7	6
657	Tuning the optical property of titania nanotubes array using CdS microemulsion sensitization for enhanced photocatalytic activity. Solid State Communications, 2022, 354, 114887.	0.9	1
658	Synthesis of Uniform Size Rutile TiO2 Microrods by Simple Molten-Salt Method and Its Photoluminescence Activity. Nanomaterials, 2022, 12, 2626.	1.9	4
659	Understanding the Photoelectrochemical Properties of Theoretically Predicted Waterâ€6plitting Catalysts for Effective Materials Discovery. Advanced Energy Materials, 2022, 12, .	10.2	7

#	Article	IF	CITATIONS
660	Impact of Ga3+ Ions on the Structure, Magnetic, and Optical Features of Co-Ni Nanostructured Spinel Ferrite Microspheres. Nanomaterials, 2022, 12, 2872.	1.9	25
661	The role of Os substitution on structural, magnetic, and optical features of LuFeO3. Solid State Sciences, 2022, 132, 106981.	1.5	4
662	High-entropy oxide glasses TiO2-Ta2O5Nb2O5-WO3â^'MOx (M=La/Sm/Eu/Tb/Dy) with high refractive index. Journal of Non-Crystalline Solids, 2022, 597, 121862.	1.5	7
663	A label-free PEC aptasensor platform based on g-C3N4/BiVO4 heterojunction for tetracycline detection in food analysis. Food Chemistry, 2023, 402, 134258.	4.2	22
664	TiO2 nanotubes film/FTO glass interface: Thermal treatment effects. Science of Sintering, 2022, 54, 235-248.	0.5	0
665	Synthesis and Characterization of Enhanced Visible-Light-Driven Mesoporoustio 2 -Wo 3 /Bi 2 Wo 6 ÁNanosheets Photocatalyst. SSRN Electronic Journal, 0, , .	0.4	0
666	Bis(2-pyridyl)ditellane as a precursor to Co ^{II} , Cu ^I and Cu ^{II} complex formation: structural characterization and photocatalytic studies. New Journal of Chemistry, 2022, 46, 18165-18172.	1.4	2
667	Photoactivity of nanostructured porous Nb ₂ O ₅ : Effect of Pt, Ta, Cu, and Ti impregnation. International Journal of Ceramic Engineering & Science, 2022, 4, 379-390.	0.5	1
668	CdS-deposited titania nanotubes array heterostructures and its investigation for photocatalytic application under visible light. Bulletin of Materials Science, 2022, 45, .	0.8	1
669	Influence of the secondary absorption and the vertical axis scale of the Tauc's plot on optical bandgap energy. Journal of Optics (India), 2023, 52, 1426-1435.	0.8	7
670	Photocatalytic hydrogen evolution performance of metal ferrites /polypyrrole nanocomposites. International Journal of Hydrogen Energy, 2022, 47, 32940-32954.	3.8	11
671	Water Harvesting Strategies through Solar Steam Generator Systems. ChemSusChem, 2022, 15, .	3.6	13
672	Solar-Driven Photocatalytic Films: Synthesis Approaches, Factors Affecting Environmental Activity, and Characterization Features. Topics in Current Chemistry, 2022, 380, .	3.0	10
673	A practical guide to 3D halide perovskites: Structure, synthesis, and measurement. , 2022, , .		0
674	Controlled growth of ZnO nanoparticles using ethanolic root extract of Japanese knotweed: photocatalytic and antimicrobial properties. RSC Advances, 2022, 12, 31235-31245.	1.7	8
675	Modulation of titania nanoflower arrays transformed from titanate nanowire arrays to boost photocatalytic Cr(<scp>vi</scp>) detoxification. New Journal of Chemistry, 0, , .	1.4	1
676	Electrochemical Lithium Intercalation in Titania Nanowire Arrays for Boosting Photocatalytic Activity. Journal of Electronic Materials, 2023, 52, 23-30.	1.0	2
677	Versatility of Tellurium in Heteroanionic Ln ₂ O ₂ Te (Ln = La, Ce, Pr) and Tellurate Ln ₂ TeO ₆ (Ln = La, Pr). Inorganic Chemistry, 2022, 61, 18002-18009.	1.9	1

#	Article	IF	CITATIONS
678	Cobalt as a sacrificial metal to increase the photoelectrochemical stability of CuBi2O4 films for water splitting. International Journal of Hydrogen Energy, 2023, 48, 3456-3465.	3.8	4
679	Optical characterization of boron carbide powders synthesized with varying Bâ€ŧo ratios. Journal of the American Ceramic Society, 2023, 106, 1932-1944.	1.9	1
680	Excellent Photocatalytic Activity of a Novel Hydroxyapatite Based Composite (ZnFe ₂ O ₄ /HAp‣n ²⁺) Towards Degradation of Ofloxacin and Norfloxacin Antibiotics. ChemistrySelect, 2022, 7, .	0.7	5
681	Optical Properties of AlInN/AlN HEMTs in Detail. Karadeniz Fen Bilimleri Dergisi, 2022, 12, 521-529.	0.1	0
682	Morphological evolution of sol-electrophoretic deposited ZnO nanostructures on anodic TiO2 nanotubes for back-side illuminated dye-sensitised solar cells. Materials Research Bulletin, 2023, 160, 112134.	2.7	4
683	Synthesis and characterization of enhanced visible light-driven mesoporous TiO2-WO3/Bi2WO6 nanosheet photocatalyst. Journal of Nanoparticle Research, 2022, 24, .	0.8	0
684	Visible light photocatalytic degradation of organic pollutants in industrial wastewater by engineered TiO2 nanoparticles. Biomass Conversion and Biorefinery, 0, , .	2.9	1
685	Nitrogen plasma-induced crystallization of anodic TiO2 nanotubes for solar photoelectrochemistry. Applied Surface Science, 2023, 615, 156472.	3.1	3
686	Sucrose mediated synthesis and XPS analysis of nanocrystalline LaCrO3 perovskite oxide. Materials Today: Proceedings, 2023, 80, 1209-1213.	0.9	1
687	Structure and luminescence of Ba3Eu2(BO3)4: F phosphors for WLEDs and FIR optical temperature sensor. Journal of Alloys and Compounds, 2023, 944, 169159.	2.8	5
688	Common characterization techniques for photocatalytic materials. , 2023, , 115-154.		0
689	Synthesis and characterization of graphitic carbon nitride composite with NiFe2O4/CdO for photocatalytic treatment of diclofenac sodium and crystal violet. Optical Materials, 2023, 139, 113721.	1.7	7
690	Enhanced near-infrared emission of Er3+ as a synergistic effect of energy transfers in Bi3TeBO9:Yb3+/Er3+ phosphors. Journal of Luminescence, 2023, 258, 119774.	1.5	3
691	Structural and Optical Characterization of Electrochemically Deposited Indium Oxide Nanostructures for Photoelectrochemical Investigation. Crystal Growth and Design, 2023, 23, 1567-1574.	1.4	0
693	Band Gap Narrowing in a High-Entropy Spinel Oxide Semiconductor for Enhanced Oxygen Evolution Catalysis. Journal of the American Chemical Society, 2023, 145, 6753-6761.	6.6	28
694	Surface Engineering of TiO ₂ Nanosheets to Boost Photocatalytic Methanol Dehydrogenation for Hydrogen Evolution. Inorganic Chemistry, 2023, 62, 5700-5706.	1.9	5
717	Synthesis and Characterization of Nanohybrid Materials for Anionic Dye Removal. , 2023, , 91-117.		0
736	Fabrication and Testing a Dye-Sensitized Solar Cell Using Lagerstroemia Speciosa Natural Dye. , 2023, , .		0

ARTICLE

IF CITATIONS