

Zong-Yan Zhao

List of Publications by Year in Descending Order

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

131 papers	3,965 citations	31 h-index	60 g-index
137 ext. papers	4,603 ext. citations	4.7 avg, IF	5.94 L-index

#	Paper	IF	Citations
131	Stability and fundamental properties of Cu ₂ O as optoelectronic functional materials.. <i>RSC Advances</i> , 2022 , 12, 3755-3762	3.7	
130	Rapid Hydroxyl Radical Generation on (001)-Facet-Exposed Ultrathin Anatase TiO ₂ Nanosheets for Enhanced Photocatalytic Lignocellulose-to-H ₂ Conversion. <i>ACS Catalysis</i> , 2022 , 12, 2118-2125	13.1	9
129	Secondary phases in Cu ₂ ZnSnS ₄ thin film solar cell: The role of interfaces. <i>Physica B: Condensed Matter</i> , 2022 , 626, 413539	2.8	1
128	Assessing the Possibilities of NM _x (Sb ₂ Te ₃) _{1-x} Solid Solutions (NM = Noble Metal) for Phase-Change Memory Applications Using High-throughput Calculations. <i>Journal of Electronic Materials</i> , 2022 , 51, 1272	1.9	1
127	Microstructure and Electronic Properties of Low-Index Stoichiometric CuFeO ₂ Surfaces: DFT Calculations. <i>Journal of Electronic Materials</i> , 2022 , 51, 2316-2336	1.9	0
126	First-principles calculations to investigate the polymorph effects of CuAlO ₂ . <i>Computational Materials Science</i> , 2022 , 209, 111403	3.2	1
125	The role and effects of Ru _{1-x} Ti _x O ₂ solid solution transition layer in Ru/TiO ₂ composite photocatalyst by DFT calculations. <i>Applied Surface Science</i> , 2022 , 593, 153405	6.7	
124	Doping effects of Ru on Sb ₂ Te and Sb ₂ Te ₃ as phase change materials studied by first-principles calculations. <i>Materials Today Communications</i> , 2022 , 31, 103669	2.5	1
123	Rational Design of a Two-Dimensional Janus CuFeO Single Layer as a Photocatalyst and Photoelectrode. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10863-10873	6.4	0
122	Regulating effect on photocatalytic water splitting performance of g-C ₃ N ₄ via confinement of single atom Pt based on energy band engineering: A first principles investigation. <i>Applied Surface Science</i> , 2021 , 577, 151916	6.7	3
121	High-throughput computational screening of Sb ₂ Te binary alloys for phase-change storage applications. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 4243-4256	5.5	1
120	Construction of direct Z-scheme WO ₃ /ZnS heterojunction to enhance the photocatalytic degradation of tetracycline antibiotic. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105111	6.8	14
119	Role of the Polar Electric Field in Bismuth Oxyhalides for Photocatalytic Water Splitting. <i>Inorganic Chemistry</i> , 2021 , 60, 8461-8474	5.1	8
118	Theoretical study of CO oxidation on Au ₁ /Co ₃ O ₄ (110) single atom catalyst using density functional theory calculations. <i>Materials Science in Semiconductor Processing</i> , 2021 , 123, 105578	4.3	2
117	DFT calculations for single-atom confinement effects of noble metals on monolayer g-CN for photocatalytic applications.. <i>RSC Advances</i> , 2021 , 11, 4276-4285	3.7	14
116	Interfacial properties of g-C ₃ N ₄ /TiO ₂ heterostructures studied by DFT calculations. <i>Chinese Physics B</i> , 2021 , 30, 017101	1.2	4
115	Study of Ag precipitation and mechanical properties of Ti-Ta-Ag ternary alloy.. <i>RSC Advances</i> , 2021 , 11, 2976-2984	3.7	3

114	Effect of Ag alloying and trace precipitation on corrosion resistance of Ti-Ta-Ag ternary alloy. <i>Royal Society Open Science</i> , 2021 , 8, 210243	3.3	
113	Mechanistic insight into the dispersion behavior of single platinum atom on monolayer g-C ₃ N ₄ in single-atom catalysts from density functional theory calculations. <i>Applied Surface Science</i> , 2021 , 566, 150697	6.7	3
112	Excess oxygen in delafossite CuFeO ₂ —Synthesis, characterization, and applications in solar energy conversion. <i>Chemical Engineering Journal</i> , 2020 , 396, 125290	14.7	10
111	The effects of localized surface plasmon resonance on Cu ₂ S as a full-spectrum-response photocatalyst. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 265103	3	2
110	Unraveling the role of cuprous oxide and boosting solar energy conversion via interface engineering in a Cu/TiO ₂ plasmonic photocatalyst. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8567-8578	7.1	9
109	Mildly regulated intrinsic faradaic layer at the oxide/water interface for improved photoelectrochemical performance. <i>Chemical Science</i> , 2020 , 11, 6297-6304	9.4	8
108	Delafossite CuGaO ₂ as promising visible-light-driven photocatalyst: synthesis, properties, and performances. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 135102	3	6
107	Fundamental properties of delafossite CuFeO ₂ as photocatalyst for solar energy conversion. <i>Journal of Alloys and Compounds</i> , 2020 , 819, 153032	5.7	32
106	Theoretical calculations for localized surface plasmon resonance effects of Cu/TiO ₂ nanosphere: Generation, modulation, and application in photocatalysis. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 208, 110385	6.4	23
105	First-principles study on structural, mechanical, and electronic properties of disordered Pt _{1-x} Ni _x alloys. <i>Materials Chemistry and Physics</i> , 2020 , 254, 123132	4.4	
104	Effects of the Preparation Process on the Photocatalytic Performance of Delafossite CuCrO. <i>Inorganic Chemistry</i> , 2020 , 59, 16679-16689	5.1	9
103	High-Throughput Screening Delafossite CuMO ₂ (M = IIIA, 3d, 4d, 5d, and RE) Optoelectronic Functional Materials Based on First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14292-14302	3.8	11
102	Interfacial interaction and effects of GaAs/Graphene hetero-structures studied by First-principle calculations. <i>Journal of Alloys and Compounds</i> , 2019 , 795, 351-360	5.7	2
101	Interfacial structure and properties of TiO ₂ phase junction studied by DFT calculations. <i>Applied Surface Science</i> , 2019 , 485, 8-21	6.7	6
100	Stable structure and electronic properties of Ru _{1-x} Ti _x O ₂ rutile type solid solutions from DFT calculations. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 4976-4989	3.8	4
99	Properties of phase transition and interfaces of Cu ₂ ZnSnS ₄ with hetero-phase junctions. <i>Applied Surface Science</i> , 2019 , 481, 1044-1052	6.7	4
98	Effects of non-stoichiometry on electronic structure of Cu _x S _y compounds studied by first-principle calculations. <i>Materials Research Express</i> , 2019 , 6, 105513	1.7	8
97	Interfacial properties of Cu ₇ S ₄ /MnS heterostructure from first-principles calculations. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 134, 141-148	3.9	2

96	Spontaneous Polarization Effect and Photocatalytic Activity of Layered Compound of BiOI/O. <i>Inorganic Chemistry</i> , 2019 , 58, 15344-15353	5.1	18
95	Ultrathin nanosheet-anchored hexahedral prismatic Bi ₂ MoO ₆ arrays: one-step constructed and crystal facet-based homojunctions boosting photocatalytic CO ₂ reduction and N ₂ fixation. <i>Catalysis Science and Technology</i> , 2019 , 9, 7045-7050	5.5	7
94	Comparison studies of interfacial energetic and electronic properties of bimetallic AuCu/TiO ₂ hetero-structures from DFT calculations. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 1062-1075	6.8	10
93	Effects of crystal structure and composition on the photocatalytic performance of Ta-O-N functional materials. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 12005-12015	3.6	5
92	Study of the layer-dependent properties of MoS ₂ nanosheets with different crystal structures by DFT calculations. <i>Catalysis Science and Technology</i> , 2018 , 8, 1867-1879	5.5	50
91	Structural and electronic properties of Cu ₂ Q and CuQ (Q = O, S, Se, and Te) studied by first-principles calculations. <i>Materials Research Express</i> , 2018 , 5, 016305	1.7	6
90	Systematic studies on Yb Bi VO:Tm solid solutions: experiments and DFT calculations on up-conversion photoluminescence properties.. <i>RSC Advances</i> , 2018 , 8, 596-605	3.7	4
89	Interfacial micro-structure and properties of TiO ₂ /SnO ₂ heterostructures with rutile phase: A DFT calculation investigation. <i>Applied Surface Science</i> , 2018 , 451, 258-271	6.7	12
88	In ³⁺ -doped BiVO ₄ photoanodes with passivated surface states for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10456-10465	13	57
87	Studied Localized Surface Plasmon Resonance Effects of Au Nanoparticles on TiO ₂ by FDTD Simulations. <i>Catalysts</i> , 2018 , 8, 236	4	31
86	Simultaneous enhancement in charge separation and onset potential for water oxidation in a BiVO ₄ photoanode by W ^{VI} codoping. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16965-16974	13	22
85	Structural and electronic properties of low-index stoichiometric Cu ₂ ZnSnS ₄ surfaces. <i>Materials Research Express</i> , 2018 , 5, 055902	1.7	4
84	Interfacial properties and band alignment of noble-metal/anatase TiO ₂ (1 0 1) hetero-structures. <i>Computational Materials Science</i> , 2018 , 151, 160-173	3.2	8
83	A Facet-Dependent Schottky-Junction Electron Shuttle in a BiVO ₄ {010}/Au/TiO ₂ Z-Scheme Photocatalyst for Efficient Charge Separation. <i>Advanced Functional Materials</i> , 2018 , 28, 1801214	15.6	125
82	Electronic structure and optical properties of bismuth chalcogenides Bi ₂ Q ₃ (Q = O, S, Se, Te) by first-principles calculations. <i>Computational Materials Science</i> , 2018 , 142, 312-319	3.2	17
81	Effects of Modulation P-Doping on Thermal Stability of InAs/GaAs Quantum Dot Superluminescent Diodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 7536-7541	1.3	3
80	High Power Compact Quantum Cascade Superluminescent Emitters with High Temperature Stability and Optical Beam Quality. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 7430-7434	1.3	0
79	A High-Throughput Study of the Electronic Structure and Physical Properties of Short-Period (GaAs)(AlAs) (m, n ≠ 0) Superlattices Based on Density Functional Theory Calculations. <i>Nanomaterials</i> , 2018 , 8,	5.4	3

78	Structural and electronic properties of low-index stoichiometric BiOI surfaces. <i>Materials Chemistry and Physics</i> , 2017 , 193, 164-176	4.4	16
77	Understanding the interfacial properties of graphene-based materials/BiOI heterostructures by DFT calculations. <i>Applied Surface Science</i> , 2017 , 406, 8-20	6.7	18
76	Series of ZnSn(OH) Polyhedra: Enhanced CO Dissociation Activation and Crystal Facet-Based Homo Junction Boosting Solar Fuel Synthesis. <i>Inorganic Chemistry</i> , 2017 , 56, 5704-5709	5.1	23
75	DFT study on the interfacial properties of vertical and in-plane BiOI/BiOIO hetero-structures. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 9900-9911	3.6	11
74	Adsorption of AuxCuy (x + y = 1, 2, 3) nanoclusters on the anatase TiO ₂ (101) surface and their catalytic activity: a density functional theory study. <i>Catalysis Science and Technology</i> , 2017 , 7, 5709-5722	5.5	7
73	Investigation of energy band alignments and interfacial properties of rutile NMO/TiO (NM = Ru, Rh, Os, and Ir) by first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 29583-29593	3.6	7
72	Density functional theory study on the metal-support interaction between a Au cluster and an anatase TiO(001) surface. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 22069-22077	3.6	12
71	Robustly photogenerating H ₂ in water using FeP/CdS catalyst under solar irradiation. <i>Scientific Reports</i> , 2016 , 6, 19846	4.9	88
70	Structural, Electronic, and Optical Properties of BiOX _{1-x} Y _x (X, Y = F, Cl, Br, and I) Solid Solutions from DFT Calculations. <i>Scientific Reports</i> , 2016 , 6, 31449	4.9	22
69	Defect Physics of BiOI as High Efficient Photocatalyst Driven by Visible Light. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3015-3024	3.8	17
68	Electronic structures of efficient M BiO ₃ (M = Li, Na, K, Ag) photocatalyst. <i>Chinese Physics B</i> , 2016 , 25, 037102	1.2	10
67	Electronic Structure and Optical Properties of BiOI as a Photocatalyst Driven by Visible Light. <i>Catalysts</i> , 2016 , 6, 133	4	23
66	Electronic structure of O-doped SiGe calculated by DFT + U method. <i>Chinese Physics B</i> , 2016 , 25, 127101	1.2	2
65	Pedestrian Tracking Based on Camshift with Kalman Prediction for Autonomous Vehicles. <i>International Journal of Advanced Robotic Systems</i> , 2016 , 13, 120	1.4	4
64	Modification mechanism of praseodymium doping for the photocatalytic performance of TiO ₂ : a combined experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 19087-95	3.6	11
63	Hexahedron Prism-Anchored Octahedron CeO ₂ : Crystal Facet-Based Homo Junction Promoting Efficient Solar Fuel Synthesis. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9547-50	16.4	237
62	Far-Red-Emitting BiOCl:Eu ³⁺ Phosphor with Excellent Broadband NUV-Excitation for White-Light-Emitting Diodes. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2170-2176	3.8	36
61	Electronic structure and optical properties of B/P-doped amorphous Si calculated by first-principles. <i>Journal of Alloys and Compounds</i> , 2015 , 638, 59-66	5.7	3

60	Synergistic effects of nonmetal co-doping with sulfur in anatase TiO ₂ : a DFT + U study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 3426-34	3.6	4
59	DFT study on microstructures and electronic structures of Pt mono-/bi-doped anatase TiO ₂ (101) surface. <i>RSC Advances</i> , 2015 , 5, 17984-17992	3.7	5
58	Analysis of electronic structure and optical properties of N-doped SiO ₂ based on DFT calculations. <i>Modern Physics Letters B</i> , 2015 , 29, 1550100	1.6	1
57	Electronic Structure and Optical Properties of BiOI Ultrathin Films for Photocatalytic Water Splitting. <i>Inorganic Chemistry</i> , 2015 , 54, 10732-7	5.1	51
56	Electronic, optical, and mechanical properties of Cu ₂ ZnSnS ₄ with four crystal structures. <i>Journal of Semiconductors</i> , 2015 , 36, 083004	2.3	12
55	DFT calculations study of structural, electronic, and optical properties of Cu ₂ ZnSn(S _{1-x} Se _x) ₄ alloys. <i>Journal of Alloys and Compounds</i> , 2015 , 618, 248-253	5.7	7
54	Effects of Nonmetal Doping on Electronic Structures and Optical Property of Anatase TiO ₂ from First-Principles Calculations. <i>Rare Metal Materials and Engineering</i> , 2015 , 44, 1568-1574		7
53	Interfacial properties of p-Bi ₂ O ₃ homo-junction from first-principles calculations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015 , 379, 2766-2771	2.3	24
52	Impact of sulfur-, tantalum-, or co-doping on the electronic structure of anatase titanium dioxide: A systematic density functional theory investigation. <i>Materials Science in Semiconductor Processing</i> , 2015 , 33, 94-102	4.3	7
51	Electronic structures of halogen-doped Cu ₂ O based on DFT calculations. <i>Chinese Physics B</i> , 2014 , 23, 017401	1.2	4
50	Analysis of sulfur modification mechanism for anatase and rutile TiO ₂ by different doping modes based on GGA + U calculations. <i>RSC Advances</i> , 2014 , 4, 32100	3.7	17
49	Insight into insulator-to-metal transition of sulfur-doped silicon by DFT calculations. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 17499-506	3.6	19
48	Electronic structure and optical properties of SiO ₂ compounds with different crystal structures. <i>RSC Advances</i> , 2014 , 4, 36485-36493	3.7	10
47	Theoretical Study of Pt Cocatalyst Loading on Anatase TiO ₂ (101) Surface: From Surface Doping to Interface Forming. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24591-24602	3.8	21
46	The electronic structure and photoluminescence properties of BiOCl:Eu ³⁺ from first-principles calculations. <i>Journal of Luminescence</i> , 2014 , 156, 205-211	3.8	20
45	First-principles study on doping effects of sodium in kesterite Cu ₂ ZnSnS ₄ . <i>Inorganic Chemistry</i> , 2014 , 53, 9235-41	5.1	20
44	Single Water Molecule Adsorption and Decomposition on the Low-Index Stoichiometric Rutile TiO ₂ Surfaces. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4287-4295	3.8	18
43	Monophasic zircon-type tetragonal Eu _{1-x} BixVO ₄ solid-solution: synthesis, characterization, and optical properties. <i>Materials Research Bulletin</i> , 2014 , 57, 306-310	5.1	11

42	Alpha-NaYF ₄ :Nd ³⁺ nanocrystal with near-infrared to near-infrared luminescence for bioimaging applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 3910-3	1.3	2
41	Structural, electronic, and optical properties of Eu-doped BiOX (X = F, Cl, Br, I): a DFT+U study. <i>Inorganic Chemistry</i> , 2014 , 53, 13001-11	5.1	97
40	Analysis of the electronic structures of 3d transition metals doped CuGaS ₂ based on DFT calculations. <i>Journal of Semiconductors</i> , 2014 , 35, 013002	2.3	9
39	First-principles study on the doping effects of nitrogen on the electronic structure and optical properties of Cu ₂ O. <i>RSC Advances</i> , 2013 , 3, 84-90	3.7	33
38	Density functional theory study the effects of point defects in In ₂ S ₃ . <i>Computational Materials Science</i> , 2013 , 73, 139-145	3.2	10
37	Luminescence properties of Sm ³⁺ -doped TiO ₂ nanoparticles: Synthesis, characterization, and mechanism. <i>Journal of Alloys and Compounds</i> , 2013 , 554, 12-20	5.7	65
36	Synthesis and photoluminescence properties of MgAl(PO ₄)O:Eu ³⁺ red phosphor for white LEDs. <i>Ceramics International</i> , 2013 , 39, 2821-2825	5.1	16
35	Formation energy and photoelectrochemical properties of BiVO ₄ after doping at Bi ³⁺ or V ⁵⁺ sites with higher valence metal ions. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 1006-13	3.6	111
34	Study on the effect of apatite structure on spectroscopic properties of bismuth activated alkaline earth metal chlorophosphate [M ₅ (PO ₄) ₃ Cl; M = Ca, Sr and Ba]. <i>Materials Chemistry and Physics</i> , 2013 , 139, 220-224	4.4	8
33	Electronic structure and optical properties of wurtzite-kesterite Cu ₂ ZnSnS ₄ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 417-422	2.3	24
32	Water Adsorption and Decomposition on N/V-Doped Anatase TiO ₂ (101) Surfaces. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6172-6184	3.8	22
31	Ca ₂ Al ₂ SiO ₇ :Bi ³⁺ , Eu ³⁺ , Tb ³⁺ : A potential single-phased tunable-color-emitting phosphor. <i>Journal of Luminescence</i> , 2013 , 135, 206-210	3.8	45
30	Significantly enhanced superbroadband NIR emission in bismuth-doped calcium aluminophosphosilicate glasses by PbO substitution. <i>Materials Research Bulletin</i> , 2013 , 48, 260-263	5.1	5
29	Preparation and properties of Ce-doped TiO ₂ photocatalyst. <i>Materials Research Bulletin</i> , 2012 , 47, 1869-1873	5.8	69
28	First-principles calculations on electronic structures of N/V-doped and N-V-doped anatase TiO ₂ (101) surfaces. <i>ChemPhysChem</i> , 2012 , 13, 3836-47	3.2	21
27	Reconstruction of the (001) surface of TiO ₂ nanosheets induced by the fluorine-surfactant removal process under UV-irradiation for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4763-9	3.6	37
26	A Theoretical Study of Water Adsorption and Decomposition on the Low-Index Stoichiometric Anatase TiO ₂ Surfaces. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7430-7441	3.8	60
25	Effect of optical basicity on broadband infrared fluorescence in erbium-doped germanate glasses. <i>Journal of Alloys and Compounds</i> , 2012 , 513, 339-342	5.7	14

24	The influence of alkali ions size on the superbroadband NIR emission from bismuth-doped alkali aluminoborophosphosilicate glasses. <i>Optical Materials</i> , 2012 , 35, 61-64	3.3	16
23	Hydrothermal Synthesis Nano FAP : Nd ³⁺ as Biological Probe with Near-Infrared to Near-Infrared Luminescence 2012 ,		1
22	WATER-RESISTANT WHEY PROTEIN BASED WOOD ADHESIVE MODIFIED BY POST-TREATED PHENOL-FORMALDEHYDE OLIGOMERS (PFO). <i>BioResources</i> , 2012 , 7,	1.3	9
21	Structure and Properties of Water on the Anatase TiO ₂ (101) Surface: From Single-Molecule Adsorption to Interface Formation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11054-11061	3.8	54
20	Band-edge electronic structure of In ₂ S ₃ : the role of s or p orbitals of atoms at different lattice positions. <i>ChemPhysChem</i> , 2012 , 13, 1551-6	3.2	25
19	Solar hydrogen generation from seawater with a modified BiVO ₄ photoanode. <i>Energy and Environmental Science</i> , 2011 , 4, 4046	35.4	486
18	Electronic structure and optical properties of monoclinic clinobisvanite BiVO ₄ . <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 4746-53	3.6	277
17	High-yield synthesis of ultrathin and uniform BiVO ₄ square nanoplates benefitting from photocatalytic reduction of CO ₂ into renewable hydrocarbon fuel under visible light. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3594-601	9.5	324
16	Novel whey protein-based aqueous polymer-isocyanate adhesive for glutam. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 220-225	2.9	42
15	Structure and energetics of low-index stoichiometric monoclinic clinobisvanite BiVO ₄ surfaces. <i>RSC Advances</i> , 2011 , 1, 874	3.7	45
14	BiVO ₄ nanoleaves: Mild synthesis and improved photocatalytic activity for O ₂ production under visible light irradiation. <i>CrystEngComm</i> , 2011 , 13, 2500	3.3	57
13	Photocatalytic activity of La ³⁺ -codoped NaTaO ₃ for H ₂ evolution from water under visible-light irradiation. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 165401	3	23
12	Understanding the interaction of water with anatase TiO ₂ (101) surface from density functional theory calculations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 2939-2943	2.3	23
11	Formulation designs and characterisations of whey-protein based API adhesives. <i>Pigment and Resin Technology</i> , 2011 , 40, 410-417	1	12
10	Surface properties and electronic structure of low-index stoichiometric anatase TiO ₂ surfaces. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 175008	1.8	42
9	Increasing the Oxygen Vacancy Density on the TiO ₂ Surface by La-Doping for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18396-18400	3.8	131
8	Polymerizable complex synthesis of BaZr _{1-x} Sn _x O ₃ photocatalysts: Role of Sn ⁴⁺ in the band structure and their photocatalytic water splitting activities. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6772		46
7	Density functional theory study of doping effects in monoclinic clinobisvanite BiVO ₄ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 4919-4927	2.3	85

6	Preparation and photocatalytic property of $\text{LiCr}(\text{WO}_4)_2$. <i>Journal of Alloys and Compounds</i> , 2009 , 485, 346-350	5.7	12
5	Effects of lanthanide doping on electronic structures and optical properties of anatase TiO_2 from density functional theory calculations. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 085417	3	76
4	Designed Highly Effective Photocatalyst of Anatase TiO_2 Codoped with Nitrogen and Vanadium Under Visible-light Irradiation Using First-principles. <i>Catalysis Letters</i> , 2008 , 124, 111-117	2.8	44
3	Mechanism of higher photocatalytic activity of anatase TiO_2 doped with nitrogen under visible-light irradiation from density functional theory calculation. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 025103	3	95
2	Density Functional Theory Study on the Interfacial Properties of $\text{CuS}/\text{Bi}_2\text{S}_3$ Heterostructure. <i>Physica Status Solidi (B): Basic Research</i> , 2100268	1.3	0
1	ZnO 1% S x Solid Solution as Potential Buffer Layer Materials for $\text{Cu}_2\text{ZnSnS}_4$ -Based Thin Film Solar Cells: Structural and Interfacial Properties. <i>Advanced Materials Interfaces</i> , 2200376	4.6	