Zong-Yan Zhao

List of Publications by Citations

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	Solar hydrogen generation from seawater with a modified BiVO4 photoanode. *Energy and Environmental Science*, **2011**, 4, 4046	35.4	486
130	High-yield synthesis of ultrathin and uniform Bi$_2$WO$_6$ square nanoplates benefitting from photocatalytic reduction of CO$_2$ into renewable hydrocarbon fuel under visible light. *ACS Applied Materials & Interfaces*, **2011**, 3, 3594-601	9.5	324
129	Electronic structure and optical properties of monoclinic clinobisvanite BiVO4. *Physical Chemistry Chemical Physics*, **2011**, 13, 4746-53	3.6	277
128	Hexahedron Prism-Anchored Octahedronal CeO2: Crystal Facet-Based Homojunction Promoting Efficient Solar Fuel Synthesis. *Journal of the American Chemical Society*, **2015**, 137, 9547-50	16.4	237
127	Increasing the Oxygen Vacancy Density on the TiO2 Surface by La-Doping for Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2010**, 114, 18396-18400	3.8	131
126	A Facet-Dependent Schottky-Junction Electron Shuttle in a BiVO4{010}/Au/Cu2O Z-Scheme Photocatalyst for Efficient Charge Separation. *Advanced Functional Materials*, **2018**, 28, 1801214	15.6	125
125	Formation energy and photoelectrochemical properties of BiVO4 after doping at Bi3+ or V5+ sites with higher valence metal ions. *Physical Chemistry Chemical Physics*, **2013**, 15, 1006-13	3.6	111
124	Structural, electronic, and optical properties of Eu-doped BiOX (X = F, Cl, Br, I): a DFT+U study. *Inorganic Chemistry*, **2014**, 53, 13001-11	5.1	97
123	Mechanism of higher photocatalytic activity of anatase TiO2doped with nitrogen under visible-light irradiation from density functional theory calculation. *Journal Physics D: Applied Physics*, **2008**, 41, 025105	3	95
122	Robustly photogenerating H2 in water using FeP/CdS catalyst under solar irradiation. *Scientific Reports*, **2016**, 6, 19846	4.9	88
121	Density functional theory study of doping effects in monoclinic clinobisvanite BiVO4. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2010**, 374, 4919-4927	2.3	85
120	Effects of lanthanide doping on electronic structures and optical properties of anatase TiO2from density functional theory calculations. *Journal Physics D: Applied Physics*, **2008**, 41, 085417	3	76
119	Preparation and properties of ce-doped TiO2 photocatalyst. *Materials Research Bulletin*, **2012**, 47, 1869-1873	5.3	69
118	Luminescence properties of Sm3+-doped TiO2 nanoparticles: Synthesis, characterization, and mechanism. *Journal of Alloys and Compounds*, **2013**, 554, 12-20	5.7	65
117	A Theoretical Study of Water Adsorption and Decomposition on the Low-Index Stoichiometric Anatase TiO2 Surfaces. *Journal of Physical Chemistry C*, **2012**, 116, 7430-7441	3.8	60
116	In3+-doped BiVO4 photoanodes with passivated surface states for photoelectrochemical water oxidation. *Journal of Materials Chemistry A*, **2018**, 6, 10456-10465	13	57
115	BiVO4 nanoleaves: Mild synthesis and improved photocatalytic activity for O2 production under visible light irradiation. *CrystEngComm*, **2011**, 13, 2500	3.3	57

114	Structure and Properties of Water on the Anatase TiO2(101) Surface: From Single-Molecule Adsorption to Interface Formation. *Journal of Physical Chemistry C*, **2012**, 116, 11054-11061	3.8	54
113	Electronic Structure and Optical Properties of BiOI Ultrathin Films for Photocatalytic Water Splitting. *Inorganic Chemistry*, **2015**, 54, 10732-7	5.1	51
112	Study of the layer-dependent properties of MoS2 nanosheets with different crystal structures by DFT calculations. *Catalysis Science and Technology*, **2018**, 8, 1867-1879	5.5	50
111	Polymerizable complex synthesis of BaZr1−xSnxO3 photocatalysts: Role of Sn4+ in the band structure and their photocatalytic water splitting activities. *Journal of Materials Chemistry*, **2010**, 20, 6772		46
110	Ca2Al2SiO7:Bi3+, Eu3+, Tb3+: A potential single-phased tunable-color-emitting phosphor. *Journal of Luminescence*, **2013**, 135, 206-210	3.8	45
109	Structure and energetics of low-index stoichiometric monoclinic clinobisvanite BiVO4 surfaces. *RSC Advances*, **2011**, 1, 874	3.7	45
108	Designed Highly Effective Photocatalyst of Anatase TiO2 Codoped with Nitrogen and Vanadium Under Visible-light Irradiation Using First-principles. *Catalysis Letters*, **2008**, 124, 111-117	2.8	44
107	Novel whey protein-based aqueous polymer-isocyanate adhesive for glulam. *Journal of Applied Polymer Science*, **2011**, 120, 220-225	2.9	42
106	Surface properties and electronic structure of low-index stoichiometric anatase TiO(2) surfaces. *Journal of Physics Condensed Matter*, **2010**, 22, 175008	1.8	42
105	Reconstruction of the (001) surface of TiO2 nanosheets induced by the fluorine-surfactant removal process under UV-irradiation for dye-sensitized solar cells. *Physical Chemistry Chemical Physics*, **2012**, 14, 4763-9	3.6	37
104	Far-Red-Emitting BiOCl:Eu3+ Phosphor with Excellent Broadband NUV-Excitation for White-Light-Emitting Diodes. *Journal of the American Ceramic Society*, **2015**, 98, 2170-2176	3.8	36
103	First-principles study on the doping effects of nitrogen on the electronic structure and optical properties of Cu2O. *RSC Advances*, **2013**, 3, 84-90	3.7	33
102	Fundamental properties of delafossite CuFeO2 as photocatalyst for solar energy conversion. *Journal of Alloys and Compounds*, **2020**, 819, 153032	5.7	32
101	Studied Localized Surface Plasmon Resonance Effects of Au Nanoparticles on TiO2 by FDTD Simulations. *Catalysts*, **2018**, 8, 236	4	31
100	Band-edge electronic structure of β-In2S3: the role of s or p orbitals of atoms at different lattice positions. *ChemPhysChem*, **2012**, 13, 1551-6	3.2	25
99	Electronic structure and optical properties of wurtzite-kesterite Cu2ZnSnS4. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2013**, 377, 417-422	2.3	24
98	Interfacial properties of α-Bi 2 O 3 homo-junction from first-principles calculations. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2015**, 379, 2766-2771	2.3	24
97	Series of ZnSn(OH) Polyhedra: Enhanced CO Dissociation Activation and Crystal Facet-Based Homojunction Boosting Solar Fuel Synthesis. *Inorganic Chemistry*, **2017**, 56, 5704-5709	5.1	23

96	Photocatalytic activity of La□N-codoped NaTaO3for H2evolution from water under visible-light irradiation. *Journal Physics D: Applied Physics*, **2011**, 44, 165401	3	23
95	Understanding the interaction of water with anatase TiO2 (101) surface from density functional theory calculations. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2011**, 375, 2939-2945	2.3	23
94	Theoretical calculations for localized surface plasmon resonance effects of Cu/TiO2 nanosphere: Generation, modulation, and application in photocatalysis. *Solar Energy Materials and Solar Cells*, **2020**, 208, 110385	6.4	23
93	Electronic Structure and Optical Properties of BiOI as a Photocatalyst Driven by Visible Light. *Catalysts*, **2016**, 6, 133	4	23
92	Structural, Electronic, and Optical Properties of BiOX1-xYx (X, Y = F, Cl, Br, and I) Solid Solutions from DFT Calculations. *Scientific Reports*, **2016**, 6, 31449	4.9	22
91	Simultaneous enhancement in charge separation and onset potential for water oxidation in a BiVO4 photoanode by W□i codoping. *Journal of Materials Chemistry A*, **2018**, 6, 16965-16974	13	22
90	Water Adsorption and Decomposition on N/V-Doped Anatase TiO2 (101) Surfaces. *Journal of Physical Chemistry C*, **2013**, 117, 6172-6184	3.8	22
89	Theoretical Study of Pt Cocatalyst Loading on Anatase TiO2(101) Surface: From Surface Doping to Interface Forming. *Journal of Physical Chemistry C*, **2014**, 118, 24591-24602	3.8	21
88	First-principles calculations on electronic structures of N/V-doped and N-V-dodoped anatase TiO2 (101) surfaces. *ChemPhysChem*, **2012**, 13, 3836-47	3.2	21
87	The electronic structure and photoluminescence properties of BiOCl:Eu 3+ from first-principles calculations. *Journal of Luminescence*, **2014**, 156, 205-211	3.8	20
86	First-principles study on doping effects of sodium in kesterite Cu□nSnS□ *Inorganic Chemistry*, **2014**, 53, 9235-41	5.1	20
85	Insight into insulator-to-metal transition of sulfur-doped silicon by DFT calculations. *Physical Chemistry Chemical Physics*, **2014**, 16, 17499-506	3.6	19
84	Understanding the interfacial properties of graphene-based materials/BiOI heterostructures by DFT calculations. *Applied Surface Science*, **2017**, 406, 8-20	6.7	18
83	Spontaneous Polarization Effect and Photocatalytic Activity of Layered Compound of BiOIO. *Inorganic Chemistry*, **2019**, 58, 15344-15353	5.1	18
82	Single Water Molecule Adsorption and Decomposition on the Low-Index Stoichiometric Rutile TiO2 Surfaces. *Journal of Physical Chemistry C*, **2014**, 118, 4287-4295	3.8	18
81	Defect Physics of BiOI as High Efficient Photocatalyst Driven by Visible Light. *Journal of the American Ceramic Society*, **2016**, 99, 3015-3024	3.8	17
80	Analysis of sulfur modification mechanism for anatase and rutile TiO2 by different doping modes based on GGA + U calculations. *RSC Advances*, **2014**, 4, 32100	3.7	17
79	Electronic structure and optical properties of bismuth chalcogenides Bi2Q3 (Q = O, S, Se, Te) by first-principles calculations. *Computational Materials Science*, **2018**, 142, 312-319	3.2	17

78	Structural and electronic properties of low-index stoichiometric BiOI surfaces. *Materials Chemistry and Physics*, **2017**, 193, 164-176	4.4	16
77	Synthesis and photoluminescence properties of MgAl(PO4)O:Eu3+ red phosphor for white LEDs. *Ceramics International*, **2013**, 39, 2821-2825	5.1	16
76	The influence of alkali ions size on the superbroadband NIR emission from bismuth-doped alkali aluminoborophosphsilicate glasses. *Optical Materials*, **2012**, 35, 61-64	3.3	16
75	Effect of optical basicity on broadband infrared fluorescence in erbium-doped germanate glasses. *Journal of Alloys and Compounds*, **2012**, 513, 339-342	5.7	14
74	Construction of direct Z-scheme WO3/ZnS heterojunction to enhance the photocatalytic degradation of tetracycline antibiotic. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105111	6.8	14
73	DFT calculations for single-atom confinement effects of noble metals on monolayer g-CN for photocatalytic applications.. *RSC Advances*, **2021**, 11, 4276-4285	3.7	14
72	Electronic, optical, and mechanical properties of Cu2ZnSnS4with four crystal structures. *Journal of Semiconductors*, **2015**, 36, 083004	2.3	12
71	Interfacial micro-structure and properties of TiO 2 /SnO 2 heterostructures with rutile phase: A DFT calculation investigation. *Applied Surface Science*, **2018**, 451, 258-271	6.7	12
70	Density functional theory study on the metal-support interaction between a Au cluster and an anatase TiO(001) surface. *Physical Chemistry Chemical Physics*, **2017**, 19, 22069-22077	3.6	12
69	Formulation designs and characterisations of whey-protein based API adhesives. *Pigment and Resin Technology*, **2011**, 40, 410-417	1	12
68	Preparation and photocatalytic property of LiCr(WO4)2. *Journal of Alloys and Compounds*, **2009**, 485, 346-350	5.7	12
67	DFT study on the interfacial properties of vertical and in-plane BiOI/BiOIO hetero-structures. *Physical Chemistry Chemical Physics*, **2017**, 19, 9900-9911	3.6	11
66	High-Throughput Screening Delafossite CuMO2 (M = IIIA, 3d, 4d, 5d, and RE) Optoelectronic Functional Materials Based on First-Principles Calculations. *Journal of Physical Chemistry C*, **2019**, 123, 14292-14302	3.8	11
65	Modification mechanism of praseodymium doping for the photocatalytic performance of TiO2: a combined experimental and theoretical study. *Physical Chemistry Chemical Physics*, **2015**, 17, 19087-95	3.6	11
64	Monophasic zircon-type tetragonal Eu1−BixVO4 solid-solution: synthesis, characterization, and optical properties. *Materials Research Bulletin*, **2014**, 57, 306-310	5.1	11
63	Excess oxygen in delafossite CuFeO2+Synthesis, characterization, and applications in solar energy conversion. *Chemical Engineering Journal*, **2020**, 396, 125290	14.7	10
62	Comparison studies of interfacial energetic and electronic properties of bimetallic AuCu/TiO2 hetero-structures from DFT calculations. *Inorganic Chemistry Frontiers*, **2018**, 5, 1062-1075	6.8	10
61	Electronic structures of efficient M BiO 3 (M = Li, Na, K, Ag) photocatalyst. *Chinese Physics B*, **2016**, 25, 037102	1.2	10

60	Electronic structure and optical properties of SiO2 compounds with different crystal structures. *RSC Advances*, **2014**, 4, 36485-36493	3.7	10
59	Density functional theory study the effects of point defects in In2S3. *Computational Materials Science*, **2013**, 73, 139-145	3.2	10
58	Unraveling the role of cuprous oxide and boosting solar energy conversion via interface engineering in a Cu/TiO2 plasmonic photocatalyst. *Journal of Materials Chemistry C*, **2020**, 8, 8567-8578	7.1	9
57	Analysis of the electronic structures of 3d transition metals doped CuGaS2based on DFT calculations. *Journal of Semiconductors*, **2014**, 35, 013002	2.3	9
56	WATER-RESISTANT WHEY PROTEIN BASED WOOD ADHESIVE MODIFIED BY POST-TREATED PHENOL-FORMALDEHYDE OLIGOMERS (PFO). *BioResources*, **2012**, 7,	1.3	9
55	Rapid Hydroxyl Radical Generation on (001)-Facet-Exposed Ultrathin Anatase TiO2 Nanosheets for Enhanced Photocatalytic Lignocellulose-to-H2 Conversion. *ACS Catalysis*, **2022**, 12, 2118-2125	13.1	9
54	Effects of the Preparation Process on the Photocatalytic Performance of Delafossite CuCrO. *Inorganic Chemistry*, **2020**, 59, 16679-16689	5.1	9
53	Mildly regulated intrinsic faradaic layer at the oxide/water interface for improved photoelectrochemical performance. *Chemical Science*, **2020**, 11, 6297-6304	9.4	8
52	Interfacial properties and band alignment of noble-metal/anatase TiO2(1 0 1) hetero-structures. *Computational Materials Science*, **2018**, 151, 160-173	3.2	8
51	Effects of non-stoichiometry on electronic structure of CuxSy compounds studied by first-principle calculations. *Materials Research Express*, **2019**, 6, 105513	1.7	8
50	Study on the effect of apatite structure on spectroscopic properties of bismuth activated alkaline earth metal chlorophosphate [M5(PO4)3Cl; M = Ca, Sr and Ba]. *Materials Chemistry and Physics*, **2013**, 139, 220-224	4.4	8
49	Role of the Polar Electric Field in Bismuth Oxyhalides for Photocatalytic Water Splitting. *Inorganic Chemistry*, **2021**, 60, 8461-8474	5.1	8
48	Adsorption of AuxCuy (x + y = 1, 2, 3) nanoclusters on the anatase TiO2(101) surface and their catalytic activity: a density functional theory study. *Catalysis Science and Technology*, **2017**, 7, 5709-5722	5.5	7
47	Investigation of energy band alignments and interfacial properties of rutile NMO/TiO (NM = Ru, Rh, Os, and Ir) by first-principles calculations. *Physical Chemistry Chemical Physics*, **2017**, 19, 29583-29593	3.6	7
46	DFT calculations study of structural, electronic, and optical properties of Cu2ZnSn(S1Sex)4 alloys. *Journal of Alloys and Compounds*, **2015**, 618, 248-253	5.7	7
45	Effects of Nonmetal Doping on Electronic Structures and Optical Property of Anatase TiO2 from First-Principles Calculations. *Rare Metal Materials and Engineering*, **2015**, 44, 1568-1574		7
44	Impact of sulfur-, tantalum-, or co-doping on the electronic structure of anatase titanium dioxide: A systematic density functional theory investigation. *Materials Science in Semiconductor Processing*, **2015**, 33, 94-102	4.3	7
43	Ultrathin nanosheet-anchored hexahedral prismatic Bi2MoO6 arrays: one-step constructed and crystal facet-based homojunctions boosting photocatalytic CO2 reduction and N2 fixation. *Catalysis Science and Technology*, **2019**, 9, 7045-7050	5.5	7

42	Interfacial structure and properties of TiO2 phase junction studied by DFT calculations. *Applied Surface Science*, **2019**, 485, 8-21	6.7	6
41	Delafossite CuGaO2 as promising visible-light-driven photocatalyst: synthesize, properties, and performances. *Journal Physics D: Applied Physics*, **2020**, 53, 135102	3	6
40	Structural and electronic properties of Cu2Q and CuQ (Q = O, S, Se, and Te) studied by first-principles calculations. *Materials Research Express*, **2018**, 5, 016305	1.7	6
39	DFT study on microstructures and electronic structures of Pt mono-/bi-doped anatase TiO2 (101) surface. *RSC Advances*, **2015**, 5, 17984-17992	3.7	5
38	Effects of crystal structure and composition on the photocatalytic performance of Ta-O-N functional materials. *Physical Chemistry Chemical Physics*, **2018**, 20, 12005-12015	3.6	5
37	Significantly enhanced superbroadband NIR emission in bismuth-doped calcium aluminophosphsilicate glasses by PbO substitution. *Materials Research Bulletin*, **2013**, 48, 260-263	5.1	5
36	Stable structure and electronic properties of Ru1⊠TixO2 rutile type solid solutions from DFT calculations. *Journal of the American Ceramic Society*, **2019**, 102, 4976-4989	3.8	4
35	Properties of phase transition and interfaces of Cu2ZnSnS4 with hetero-phase junctions. *Applied Surface Science*, **2019**, 481, 1044-1052	6.7	4
34	Synergistic effects of nonmetal co-doping with sulfur in anatase TiO2: a DFT + U study. *Physical Chemistry Chemical Physics*, **2015**, 17, 3426-34	3.6	4
33	Systematic studies on Yb Bi VO:Tm solid solutions: experiments and DFT calculations on up-conversion photoluminescence properties.. *RSC Advances*, **2018**, 8, 596-605	3.7	4
32	Structural and electronic properties of low-index stoichiometric Cu2ZnSnS4 surfaces. *Materials Research Express*, **2018**, 5, 055902	1.7	4
31	Electronic structures of halogen-doped Cu 2 O based on DFT calculations. *Chinese Physics B*, **2014**, 23, 017401	1.2	4
30	Pedestrian Tracking Based on Camshift with Kalman Prediction for Autonomous Vehicles. *International Journal of Advanced Robotic Systems*, **2016**, 13, 120	1.4	4
29	Interfacial properties of g-C3N4/TiO2 heterostructures studied by DFT calculations. *Chinese Physics B*, **2021**, 30, 017101	1.2	4
28	Electronic structure and optical properties of B/P-doped amorphous Si calculated by first-principles. *Journal of Alloys and Compounds*, **2015**, 638, 59-66	5.7	3
27	Regulating effect on photocatalytic water splitting performance of g-C3N4 via confinement of single atom Pt based on energy band engineering: A first principles investigation. *Applied Surface Science*, **2021**, 577, 151916	6.7	3
26	Study of Ag precipitation and mechanical properties of Ti-Ta-Ag ternary alloy.. *RSC Advances*, **2021**, 11, 2976-2984	3.7	3
25	Effects of Modulation P-Doping on Thermal Stability of InAs/GaAs Quantum Dot Superluminescent Diodes. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 7536-7541	1.3	3

24	A High-Throughput Study of the Electronic Structure and Physical Properties of Short-Period (GaAs)(AlAs) (m, n ≤ 10) Superlattices Based on Density Functional Theory Calculations. *Nanomaterials*, **2018**, 8,	5.4	3
23	Mechanistic insight into the dispersion behavior of single platinum atom on monolayer g-C3N4 in single-atom catalysts from density functional theory calculations. *Applied Surface Science*, **2021**, 566, 150697	6.7	3
22	Interfacial interaction and effects of GaAs/Graphene hetero-structures studied by First-principle calculations. *Journal of Alloys and Compounds*, **2019**, 795, 351-360	5.7	2
21	The effects of localized surface plasmon resonance on Cu2−x S as a full-spectrum-response photocatalyst. *Journal Physics D: Applied Physics*, **2020**, 53, 265103	3	2
20	Interfacial properties of Cu7S4/MnS heterostructure from first-principles calculations. *Journal of Physics and Chemistry of Solids*, **2019**, 134, 141-148	3.9	2
19	Alpha-NaYF4:Nd3+ nanocrystal with near-infrared to near-infrared luminescence for bioimaging applications. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 3910-3	1.3	2
18	Electronic structure of O-doped SiGe calculated by DFT + U method. *Chinese Physics B*, **2016**, 25, 127101	1.2	2
17	Theoretical study of CO oxidation on Au1/Co3O4 (110) single atom catalyst using density functional theory calculations. *Materials Science in Semiconductor Processing*, **2021**, 123, 105578	4.3	2
16	Analysis of electronic structure and optical properties of N-doped SiO2 based on DFT calculations. *Modern Physics Letters B*, **2015**, 29, 1550100	1.6	1
15	Hydrothermal Synthesis Nano FAP : Nd3+ as Biological Probe with Near-Infrared to Near-Infrared Luminescence **2012**,		1
14	Secondary phases in Cu2ZnSnS4 thin film solar cell: The role of interfaces. *Physica B: Condensed Matter*, **2022**, 626, 413539	2.8	1
13	Assessing the Possibilities of NMx(Sb2Te3)1− Solid Solutions (NM = Noble Metal) for Phase-Change Memory Applications Using High-throughput Calculations. *Journal of Electronic Materials*, **2022**, 51, 1272	1.9	1
12	High-throughput computational screening of Sb–Te binary alloys for phase-change storage applications. *Journal of Materials Research and Technology*, **2021**, 15, 4243-4256	5.5	1
11	First-principles calculations to investigate the polymorph effects of CuAlO2. *Computational Materials Science*, **2022**, 209, 111403	3.2	1
10	Doping effects of Ru on Sb2Te and Sb2Te3 as phase change materials studied by first-principles calculations. *Materials Today Communications*, **2022**, 31, 103669	2.5	1
9	Rational Design of a Two-Dimensional Janus CuFeO Single Layer as a Photocatalyst and Photoelectrode. *Journal of Physical Chemistry Letters*, **2021**, 12, 10863-10873	6.4	0
8	High Power Compact Quantum Cascade Superluminescent Emitters with High Temperature Stability and Optical Beam Quality. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 7430-7434	1.3	0
7	Density Functional Theory Study on the Interfacial Properties of CuS/Bi2S3 Heterostructure. *Physica Status Solidi (B): Basic Research*,2100268	1.3	0

6	Microstructure and Electronic Properties of Low-Index Stoichiometric CuFeO2 Surfaces: DFT Calculations. *Journal of Electronic Materials*, **2022**, 51, 2316-2336	1.9	0
5	Stability and fundamental properties of Cu O as optoelectronic functional materials.. *RSC Advances*, **2022**, 12, 3755-3762	3.7	
4	First-principles study on structural, mechanical, and electronic properties of disordered Pt1-xNix alloys. *Materials Chemistry and Physics*, **2020**, 254, 123132	4.4	
3	Effect of Ag alloying and trace precipitation on corrosion resistance of Ti-Ta-Ag ternary alloy. *Royal Society Open Science*, **2021**, 8, 210243	3.3	
2	The role and effects of Ru1 TixO2 solid solution transition layer in Ru/TiO2 composite photocatalyst by DFT calculations. *Applied Surface Science*, **2022**, 593, 153405	6.7	
1	ZnO 1 x S x Solid Solution as Potential Buffer Layer Materials for Cu 2 ZnSnS 4 -Based Thin Film Solar Cells: Structural and Interfacial Properties. *Advanced Materials Interfaces*,2200376	4.6	