

# Zhaosheng Li

## 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.

176  
papers

9,666  
citations

48  
h-index

95  
g-index

190  
ext. papers

10,828  
ext. citations

7.9  
avg, IF

6.21  
L-index

#	Paper	IF	Citations
176	Extraterrestrial photosynthesis by ChangE-5 lunar soil. <i>Joule</i> , <b>2022</b> ,	27.8	3
175	Ultrathin 3D radial tandem-junction photocathode with a high onset potential of 1.15 V for solar hydrogen production. <i>Chinese Journal of Catalysis</i> , <b>2022</b> , 43, 1842-1850	11.3	1
174	An energy level alignment strategy to boost the open-circuit voltage via a Mg:TiO <sub>2</sub> compact layer in the planar heterojunction CsPbBr <sub>3</sub> solar cells. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 201601	3.4	2
173	Organics challenge inorganics for efficient photoelectrochemical water oxidation. <i>Science Bulletin</i> , <b>2021</b> , 67, 226-226	10.6	1
172	Carrier Mobility Enhancement in (121)-Oriented CsPbBr <sub>3</sub> Perovskite Films Induced by the Microstructure Tailoring of PbBr <sub>2</sub> Precursor Films. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 373-384	4	12
171	Urea-Assisted Synthesis and Tailoring Cobalt Cores for Synergetic Promotion of Hydrogen Evolution Reaction in Acid and Alkaline Media. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2000091	1.6	3
170	Promotion effect of metal phosphides towards electrocatalytic and photocatalytic water splitting. <i>EcoMat</i> , <b>2021</b> , 3, e12097	9.4	13
169	Material Design and Surface/Interface Engineering of Photoelectrodes for Solar Water Splitting. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100100	7.1	8
168	An ultraviolet-ozone post-treatment to remove the inherent impurities in all-ambient solution-processed CsPbBr <sub>3</sub> perovskite films. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 221604	3.4	2
167	Suppressing the Defects in CsPbI <sub>2</sub> Br Perovskite Photovoltaic Films via a Homogeneous Cap-Mediated Annealing Strategy. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 11488-11495	4.1	0
166	Extraterrestrial artificial photosynthetic materials for resource utilization. <i>National Science Review</i> , <b>2021</b> , 8, nwab104	10.8	5
165	Direct Molecule Substitution Enabled Rapid Transformation of Wet PbBr <sub>2</sub> (DMF) Precursor Films to CsPbBr <sub>3</sub> Perovskite. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 6414-6421	6.1	1
164	Exploring N-Containing Compound Catalyst for H <sub>2</sub> S Selective Oxidation: Case Study of TaON and Ta <sub>3</sub> N <sub>5</sub> . <i>Catalysis Letters</i> , <b>2021</b> , 151, 1728-1737	2.8	2
163	Evaluating the promotional effects of WO <sub>3</sub> underlayers in BiVO <sub>4</sub> water splitting photoanodes. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 128095	14.7	9
162	A strategy of asymmetric local structure based on mesoporous MoO toward efficient electrocatalysis. <i>Chemical Communications</i> , <b>2021</b> , 57, 7834-7837	5.8	1
161	Synthesis of porous AuAg alloy nanorods with tunable plasmonic properties and intrinsic hotspots for surface-enhanced Raman scattering. <i>CrystEngComm</i> , <b>2021</b> , 23, 3467-3476	3.3	1
160	Photocatalytic and Thermocatalytic Conversion of Methane. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000596	7.1	1

159	2D High-Entropy Hydrotalcites. <i>Small</i> , <b>2021</b> , 17, e2103412	11	4
158	Metastable-phase $\beta$ -Fe <sub>2</sub> O <sub>3</sub> photoanodes for solar water splitting with durability exceeding 100 h. <i>Chinese Journal of Catalysis</i> , <b>2021</b> , 42, 1992-1998	11.3	1
157	Lanthanum bismuth oxide photocatalysts for CO <sub>2</sub> reduction to CO with high selectivity. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 2688-2694	5.8	1
156	Cooperative catalysis coupling photo-/photothermal effect to drive Sabatier reaction with unprecedented conversion and selectivity. <i>Joule</i> , <b>2021</b> , 5, 3235-3251	27.8	11
155	Paving the road toward the use of $\beta$ -FeO in solar water splitting: Raman identification, phase transformation and strategies for phase stabilization. <i>National Science Review</i> , <b>2020</b> , 7, 1059-1067	10.8	17
154	Effects of oxygen impurity concentration on the interfacial properties of Ta <sub>3</sub> N <sub>5</sub> /Ta <sub>5</sub> N <sub>6</sub> composite photoelectrode: A DFT calculation. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 278, 119296	21.8	1
153	Suppression of Point Defects for Band Edge Engineering in a Semiconducting Photocatalyst. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 1708-1713	6.4	5
152	Simultaneous Optimization of Phase and Morphology of CsPbBr <sub>3</sub> Films via Controllable Ostwald Ripening by Ethylene Glycol Monomethylether/Isopropanol Bi-Solvent Engineering. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 2000162	3.5	10
151	Polaron States as a Massive Electron-Transfer Pathway at Heterojunction Interface. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 9184-9194	6.4	5
150	In situ preparation of Bi <sub>2</sub> S <sub>3</sub> nanoribbon-anchored BiVO <sub>4</sub> nanoscroll heterostructures for the catalysis of Cr(VI) photoreduction. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 3843-3847	5.5	6
149	Non-oxide semiconductors for artificial photosynthesis: Progress on photoelectrochemical water splitting and carbon dioxide reduction. <i>Nano Today</i> , <b>2020</b> , 30, 100830	17.9	42
148	Photocatalysis: an overview of recent developments and technological advancements. <i>Science China Chemistry</i> , <b>2020</b> , 63, 149-181	7.9	63
147	Curing the fundamental issue of impurity phases in two-step solution-processed CsPbBr <sub>3</sub> perovskite films. <i>Science Bulletin</i> , <b>2020</b> , 65, 726-737	10.6	19
146	Modulation of Disordered Coordination Degree Based on Surface Defective Metal-Organic Framework Derivatives toward Boosting Oxygen Evolution Electrocatalysis. <i>Small</i> , <b>2020</b> , 16, e2003630	11	15
145	Sol-gel synthesis of highly reproducible WO <sub>3</sub> photoanodes for solar water oxidation. <i>Science China Materials</i> , <b>2020</b> , 63, 2261-2271	7.1	4
144	Phase degradation of all-inorganic perovskite CsPbI <sub>2</sub> Br films induced by a p-type CuI granular capping layer. <i>Science China Materials</i> , <b>2020</b> , 63, 2487-2496	7.1	5
143	State-of-the-art advancements of crystal facet-exposed photocatalysts beyond TiO <sub>2</sub> : Design and dependent performance for solar energy conversion and environment applications. <i>Materials Today</i> , <b>2020</b> , 33, 75-86	21.8	50
142	Molecular-level understanding of the deactivation pathways during methanol photo-reforming on Pt-decorated TiO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 272, 118980	21.8	10

141	Defect Engineering in Semiconductors: Manipulating Nonstoichiometric Defects and Understanding Their Impact in Oxynitrides for Solar Energy Conversion. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808389	15.6	37
140	Construction of silica-encapsulated gold-silver core-shell nanorod: Atomic facets enrichment and plasmon enhanced catalytic activity with high stability and reusability. <i>Materials and Design</i> , <b>2019</b> , 177, 107837	8.1	17
139	Design Principles for Construction of Charge Transport Channels in Particle-Assembled Water-Splitting Photoelectrodes. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 10509-10515	8.3	10
138	Highly symmetrical, 24-faceted, concave BiVO polyhedron bounded by multiple high-index facets for prominent photocatalytic O evolution under visible light. <i>Chemical Communications</i> , <b>2019</b> , 55, 4777-4780	5.8	17
137	Interfacial Effects on the Band Edges of TaN Photoanodes in an Aqueous Environment: A Theoretical View. <i>IScience</i> , <b>2019</b> , 13, 432-439	6.1	10
136	BiVO tubular structures: oxygen defect-rich and largely exposed reactive {010} facets synergistically boost photocatalytic water oxidation and the selective N[double bond, length as m-dash]N coupling reaction of 5-amino-1H-tetrazole. <i>Chemical Communications</i> , <b>2019</b> , 55, 5635-5638	5.8	12
135	Elegant Molecular Iodine/Antisolvent Solution Engineering To Tune the Fermi Level of Perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5753-5758	6.1	2
134	Effect of Bulk Hydrogen on the Photocatalytic Activity of Semiconducting Ta <sub>3</sub> N <sub>5</sub> : A Hybrid-DFT Viewpoint. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 28763-28768	3.8	3
133	Reactive Inorganic Vapor Deposition of Perovskite Oxynitride Films for Solar Energy Conversion. <i>Research</i> , <b>2019</b> , 2019, 9282674	7.8	12
132	Charge compensation doping to improve the photocatalytic and photoelectrochemical activities of Ta <sub>3</sub> N <sub>5</sub> : A theoretical study. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 244, 502-510	21.8	16
131	Heterogeneous degradation of organic contaminants in the photo-Fenton reaction employing pure cubic Fe <sub>2</sub> O <sub>3</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 245, 410-419	21.8	66
130	Surface states as electron transfer pathway enhanced charge separation in TiO <sub>2</sub> nanotube water splitting photoanodes. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 234, 100-108	21.8	54
129	High Energy Density Asymmetric Supercapacitor Based ZnS/NiCo <sub>2</sub> S <sub>4</sub> /Co <sub>9</sub> S <sub>8</sub> Nanotube Composites Materials. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800018	4.6	44
128	Interfacial Engineering of Hierarchical Transition Metal Oxide Heterostructures for Highly Sensitive Sensing of Hydrogen Peroxide. <i>Small</i> , <b>2018</b> , 14, e1703713	11	26
127	Insight into the influence of high temperature annealing on the onset potential of Ti-doped hematite photoanodes for solar water splitting. <i>Chinese Chemical Letters</i> , <b>2018</b> , 29, 791-794	8.1	4
126	Tuning spontaneous polarization to alter water oxidation/reduction activities of LiNbO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2018</b> , 112, 073901	3.4	9
125	Rational design of electrocatalysts for simultaneously promoting bulk charge separation and surface charge transfer in solar water splitting photoelectrodes. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2568-2576	13	35
124	Promoted photoelectrochemical activity of BiVO <sub>4</sub> coupled with LaFeO <sub>3</sub> and LaCoO <sub>3</sub> . <i>Research on Chemical Intermediates</i> , <b>2018</b> , 44, 1013-1024	2.8	8

123	Galvanic cell reaction driven electrochemical doping of TiO nanotube photoanodes for enhanced charge separation. <i>Chemical Communications</i> , <b>2018</b> , 54, 11116-11119	5.8	1
122	Improving solar water-splitting performance of LaTaON <sub>2</sub> by bulk defect control and interface engineering. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 226, 111-116	21.8	21
121	Theoretical Insight into Charge-Recombination Center in Ta <sub>3</sub> N <sub>5</sub> Photocatalyst: Interstitial Hydrogen. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 489-494	3.8	8
120	Tandem photoelectrochemical cells for solar water splitting. <i>Advances in Physics: X</i> , <b>2018</b> , 3, 1487267	5.1	14
119	Exploring facile strategies for high-oxidation-state metal nitride synthesis: carbonate-assisted one-step synthesis of Ta <sub>3</sub> N <sub>5</sub> films for solar water splitting. <i>Science Bulletin</i> , <b>2018</b> , 63, 1404-1410	10.6	14
118	Facet-Dependent Enhancement in the Activity of Bismuth Vanadate Microcrystals for the Photocatalytic Conversion of Methane to Methanol. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 6683-6691	5.6	41
117	Improved water-splitting performances of CuW <sub>1-x</sub> Mo <sub>x</sub> O <sub>4</sub> photoanodes synthesized by spray pyrolysis. <i>Science China Materials</i> , <b>2018</b> , 61, 1297-1304	7.1	14
116	Effects of Mg <sup>2+</sup> /Zr codoping on the photoelectrochemical properties of a Ta <sub>3</sub> N <sub>5</sub> semiconductor: a theoretical insight. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 6966-6973	13	16
115	Selective Electrochemical Detection of Dopamine on Polyoxometalate-Based Metal-Organic Framework and Its Composite with Reduced Graphene Oxide. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1601241	4.6	38
114	Oxygen-Impurity-Induced Direct/Indirect Band Gap in Perovskite SrTaO <sub>2</sub> N. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 6864-6867	3.8	11
113	A beta-FeO nanoparticle-assembled film for photoelectrochemical water splitting. <i>Dalton Transactions</i> , <b>2017</b> , 46, 10673-10677	4.3	16
112	A novel wide-spectrum response hexagonal YFeO <sub>3</sub> photoanode for solar water splitting. <i>RSC Advances</i> , <b>2017</b> , 7, 18418-18420	3.7	12
111	Current advances in MoS <sub>2</sub> /semiconductor heterojunction with enhanced photocatalytic activity. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2017</b> , 6, 42-47	7.9	9
110	A facile spray pyrolysis method to prepare Ti-doped ZnFe <sub>2</sub> O <sub>4</sub> for boosting photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 7571-7577	13	84
109	Two-dimensional nanomaterials for photocatalytic CO <sub>2</sub> reduction to solar fuels. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 1875-1898	5.8	115
108	Bi MoO Nanostrip Networks for Enhanced Visible-Light Photocatalytic Reduction of CO to CH <sub>4</sub> . <i>ChemPhysChem</i> , <b>2017</b> , 18, 3240-3244	3.2	28
107	Improved charge separation efficiency of hematite photoanodes by coating an ultrathin p-type LaFeO overlayer. <i>Nanotechnology</i> , <b>2017</b> , 28, 394003	3.4	7
106	Back Electron Transfer at TiO Nanotube Photoanodes in the Presence of a HO Hole Scavenger. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 33887-33895	9.5	24

105	Three-Dimensional Hierarchical Architectures Derived from Surface-Mounted Metal-Organic Framework Membranes for Enhanced Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 13781-13785	16.4	144
104	Enhanced solar photocurrent of LaTaON <sub>2</sub> photoanodes via electrochemical treatment. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 182, 012007	0.4	1
103	Compensation of band-edge positions in titanium-doped Ta <sub>3</sub> N <sub>5</sub> photoanode for enhanced water splitting performance: A first-principles insight. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	10
102	Three-Dimensional Hierarchical Architectures Derived from Surface-Mounted Metal-Organic Framework Membranes for Enhanced Electrocatalysis. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 13969-13973	3.6	31
101	Photoelectrochemical cell for unassisted overall solar water splitting using a BiVO <sub>4</sub> photoanode and Si nanoarray photocathode. <i>RSC Advances</i> , <b>2016</b> , 6, 9905-9910	3.7	51
100	Theoretical study on the surface stabilities, electronic structures and water adsorption behavior of the Ta <sub>3</sub> N <sub>5</sub> (110) surface. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 7938-45	3.6	7
99	Significant improvements in InGaN/GaN nano-photoelectrodes for hydrogen generation by structure and polarization optimization. <i>Scientific Reports</i> , <b>2016</b> , 6, 20218	4.9	24
98	Hydrogen Evolution Reaction of EMo <sub>0.5</sub> W <sub>0.5</sub> C Achieved by High Pressure High Temperature Synthesis. <i>Catalysts</i> , <b>2016</b> , 6, 208	4	3
97	Enhanced InGaN/GaN photoelectrodes for visible-light-driven hydrogen generation by surface roughening. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 2704-2708	1.6	1
96	A perspective on perovskite oxide semiconductor catalysts for gas phase photoreduction of carbon dioxide. <i>MRS Communications</i> , <b>2016</b> , 6, 216-225	2.7	14
95	Formation of Hierarchical Structure Composed of (Co/Ni)Mn-LDH Nanosheets on MWCNT Backbones for Efficient Electrocatalytic Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 14527-34	9.5	123
94	Enhanced Water-Splitting Performance of Perovskite SrTaO <sub>2</sub> N Photoanode Film through Ameliorating Interparticle Charge Transport. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7156-7163	15.6	63
93	Layered crystalline ZnInS nanosheets: CVD synthesis and photo-electrochemical properties. <i>Nanoscale</i> , <b>2016</b> , 8, 18197-18203	7.7	25
92	Construction of Visible-Light-Responsive SrTiO <sub>3</sub> with Enhanced CO <sub>2</sub> Adsorption Ability: Highly Efficient Photocatalysts for Artificial Photosynthesis. <i>Catalysis Letters</i> , <b>2015</b> , 145, 640-646	2.8	25
91	Application of binder-free TiOxN <sub>1-x</sub> nanogrid film as a high-power supercapacitor electrode. <i>Journal of Power Sources</i> , <b>2015</b> , 296, 53-63	8.9	20
90	Solar fuel production: Strategies and new opportunities with nanostructures. <i>Nano Today</i> , <b>2015</b> , 10, 468-486	17.6	112
89	A hybrid density functional theory study of the anion distribution and applied electronic properties of the LaTiO <sub>2</sub> N semiconductor photocatalyst. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 19631-6	3.6	11
88	Photocatalytic CO <sub>2</sub> reduction of BaCeO <sub>3</sub> with 4f configuration electrons. <i>Applied Surface Science</i> , <b>2015</b> , 358, 463-467	6.7	23

87	Barium zirconate: a new photocatalyst for converting CO <sub>2</sub> into hydrocarbons under UV irradiation. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 1758-1763	5.5	36
86	Enhancement of Photoelectrochemical Performance in Water Oxidation over Bismuth Vanadate Photoanodes by Incorporation with Reduced Graphene Oxide. <i>ChemCatChem</i> , <b>2015</b> , 7, 2979-2985	5.2	10
85	Unraveling the mechanism of 720 nm sub-band-gap optical absorption of a Ta <sub>3</sub> N <sub>5</sub> semiconductor photocatalyst: a hybrid-DFT calculation. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 8166-71	3.6	32
84	Effects of oxygen impurities and nitrogen vacancies on the surface properties of the Ta <sub>3</sub> N <sub>5</sub> photocatalyst: a DFT study. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 23265-72	3.6	17
83	Enhanced Performance of Photoelectrochemical Water Splitting with ITO@Fe <sub>2</sub> O <sub>3</sub> Core-Shell Nanowire Array as Photoanode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 26482-90	9.5	53
82	Highly Photo-Responsive LaTiO <sub>2</sub> N Photoanodes by Improvement of Charge Carrier Transport among Film Particles. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3535-3542	15.6	153
81	MnO <sub>2</sub> nanolayers on highly conductive TiO <sub>2</sub> (0.54)N <sub>2</sub> (0.46) nanotubes for supercapacitor electrodes with high power density and cyclic stability. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 8521-8	3.6	17
80	Basic Molten Salt Route to Prepare Porous SrTiO <sub>3</sub> Nanocrystals for Efficient Photocatalytic Hydrogen Production. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 3731-3735	2.3	13
79	Role of oxygen impurity on the mechanical stability and atomic cohesion of Ta <sub>3</sub> N <sub>5</sub> semiconductor photocatalyst. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 15375-80	3.6	35
78	Cathodic shift of onset potential for water oxidation on a Ti <sup>4+</sup> doped Fe <sub>2</sub> O <sub>3</sub> photoanode by suppressing the back reaction. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 752-759	35.4	201
77	Photoelectrochemical water oxidation of LaTaO <sub>2</sub> N <sub>2</sub> under visible-light irradiation. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 7697-7704	6.7	48
76	Effects of oxygen doping on optical band gap and band edge positions of Ta <sub>3</sub> N <sub>5</sub> photocatalyst: A GGA+U calculation. <i>Journal of Catalysis</i> , <b>2014</b> , 309, 291-299	7.3	61
75	Improvement in photocatalytic H <sub>2</sub> evolution over g-C <sub>3</sub> N <sub>4</sub> prepared from protonated melamine. <i>Applied Surface Science</i> , <b>2014</b> , 295, 253-259	6.7	100
74	Ge-mediated modification in Ta <sub>3</sub> N <sub>5</sub> photoelectrodes with enhanced charge transport for solar water splitting. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 16384-90	4.8	36
73	Quantitative Analysis and Visualized Evidence for High Charge Separation Efficiency in a Solid-Liquid Bulk Heterojunction. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301785	21.8	75
72	Effects of Ba <sup>2+</sup> codoping on the photocatalytic activities of Ta <sub>3</sub> N <sub>5</sub> photocatalyst: a DFT study. <i>RSC Advances</i> , <b>2014</b> , 4, 55615-55621	3.7	9
71	Enhanced luminescence intensity of Sr <sub>3</sub> B <sub>2</sub> O <sub>6</sub> :Eu <sup>2+</sup> phosphor prepared by sol-gel method. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 579, 432-437	5.7	17
70	A co-catalyst-loaded Ta <sub>3</sub> N <sub>5</sub> photoanode with a high solar photocurrent for water splitting upon facile removal of the surface layer. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 11016-20	16.4	189

69	Efficient red phosphor double-perovskite $\text{Ca}_3\text{WO}_6$ with A-site substitution of $\text{Eu}^{3+}$ . <i>Dalton Transactions</i> , <b>2013</b> , 42, 13502-8	4.3	32
68	Theoretical study of water adsorption and dissociation on $\text{Ta}_3\text{N}_5(100)$ surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 16054-64	3.6	24
67	A transparent $\text{Ti}^{4+}$ doped hematite photoanode protectively grown by a facile hydrothermal method. <i>CrystEngComm</i> , <b>2013</b> , 15, 2386	3.3	39
66	Photoelectrochemical cells for solar hydrogen production: current state of promising photoelectrodes, methods to improve their properties, and outlook. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 347-370	35.4	833
65	Formation energy and photoelectrochemical properties of $\text{BiVO}_4$ after doping at $\text{Bi}^{3+}$ or $\text{V}^{5+}$ sites with higher valence metal ions. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 1006-13	3.6	111
64	Tunable orange red phosphors: $\text{S}^{2-}$ -doped high temperature phase $\text{Ca}_3\text{SiO}_4\text{Cl}_2:\text{Eu}^{2+}$ for solid-state lighting. <i>RSC Advances</i> , <b>2013</b> , 3, 1965-1969	3.7	8
63	Zinc Gallogermanate Solid Solution: A Novel Photocatalyst for Efficiently Converting $\text{CO}_2$ into Solar Fuels. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 1839-1845	15.6	79
62	Highly efficient visible light photocatalytic activity of $\text{Cr}^{III}$ -codoped $\text{SrTiO}_3$ with surface alkalinization: An insight from DFT calculation. <i>Computational Materials Science</i> , <b>2013</b> , 79, 87-94	3.2	14
61	An efficient charge compensated red phosphor $\text{Sr}_3\text{WO}_6: \text{K}^+, \text{Eu}^{3+}$ for white LEDs. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 553, 221-224	5.7	41
60	$\text{Na}$ adsorption on $\text{SrTiO}_3(001)$ surface and its interaction with water: A DFT calculation. <i>Applied Surface Science</i> , <b>2013</b> , 270, 359-363	6.7	5
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