Zhaosheng Li

List of Publications by Year
in descending order

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		31976	29157
184	11,856	53	104
papers	citations	h-index	g-index

190	190	190	13415
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Organics challenge inorganics for efficient photoelectrochemical water oxidation. Science Bulletin, 2022, 67, 226-228.	9.0	5
2	Effects of transition metal doping on electronic structure of metastable Î²-Fe₂O₃ photocatalyst for solar-to-hydrogen conversion. Physical Chemistry Chemical Physics, 2022, 24, 6958-6963.	2.8	3
3	FeVO₄ nanowires for efficient photocatalytic CO₂ reduction. Catalysis Science and Technology, 2022, 12, 3289-3294.	4.1	12
4	Bandgap Engineering and Oxygen Vacancies of Ni_xV₂O_{5+x} (xâ€‰=â€‰1, 2, 3) for Efficient Visible Lightâ€Driven CO₂ to CO with Nearly 100% Selectivity. Solar Rrl, 2022, 6, .	5.8	8
5	In situ optical spectroscopic understanding of electrochemical passivation mechanism on solâ€“gel processed WO3 photoanodes. Journal of Energy Chemistry, 2022, 71, 20-28.	12.9	17
6	A Waterâ€Soluble Highly Oxidizing Cobalt Molecular Catalyst Designed for Bioinspired Water Oxidation. Angewandte Chemie - International Edition, 2022, 61, .	13.8	13
7	Extraterrestrial photosynthesis by Changâ€™E-5 lunar soil. Joule, 2022, 6, 1008-1014.	24.0	15
8	Deactivation and Stabilization Mechanism of Photothermal CO₂ Hydrogenation over Black TiO₂. ACS Sustainable Chemistry and Engineering, 2022, 10, 6382-6388.	6.7	16
9	Homogeneous solution assembled Turing structures with near zero strain semi-coherence interface. Nature Communications, 2022, 13, .	12.8	13
10	Ultrathin 3D radial tandem-junction photocathode with a high onset potential of 1.15 V for solar hydrogen production. Chinese Journal of Catalysis, 2022, 43, 1842-1850.	14.0	1
11	An energy level alignment strategy to boost the open-circuit voltage via a Mg:TiO2 compact layer in the planar heterojunction CsPbBr3 solar cells. Applied Physics Letters, 2022, 120, .	3.3	5
12	Centimeter-scale perovskite SrTaO2N single crystals with enhanced photoelectrochemical performance. Science Bulletin, 2022, 67, 1458-1466.	9.0	6
13	A2V2O7 (A = Co, Ni, Cu and Zn) for CO2 reduction under visible-light irradiation: Effects of A site replacement. Applied Catalysis B: Environmental, 2022, 317, 121722.	20.2	10
14	Exploring N-Containing Compound Catalyst for H2S Selective Oxidation: Case Study of TaON and Ta3N5. Catalysis Letters, 2021, 151, 1728-1737.	2.6	2
15	Evaluating the promotional effects of WO3 underlayers in BiVO4 water splitting photoanodes. Chemical Engineering Journal, 2021, 417, 128095.	12.7	27
16	A strategy of asymmetric local structure based on mesoporous MoO₂ toward efficient electrocatalysis. Chemical Communications, 2021, 57, 7834-7837.	4.1	3
17	Synthesis of porous Auâ€“Ag alloy nanorods with tunable plasmonic properties and intrinsic hotspots for surface-enhanced Raman scattering. CrystEngComm, 2021, 23, 3467-3476.	2.6	6
18	Photocatalytic and Thermocatalytic Conversion of Methane. Solar Rrl, 2021, 5, 2000596.	5.8	16

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19	Ureaâ€Assisted Synthesis and Tailoring Cobalt Cores for Synergetic Promotion of Hydrogen Evolution Reaction in Acid and Alkaline Media. Advanced Energy and Sustainability Research, 2021, 2, 2000091.	5.8	5
20	Promotion effect of metal phosphides towards electrocatalytic and photocatalytic water splitting. EcoMat, 2021, 3, e12097.	11.9	46
21	Material Design and Surface/Interface Engineering of Photoelectrodes for Solar Water Splitting. Solar Rrl, 2021, 5, 2100100.	5.8	33
22	An ultraviolet-ozone post-treatment to remove the inherent impurities in all-ambient solution-processed CsPbBr3 perovskite films. Applied Physics Letters, 2021, 118, 221604.	3.3	5
23	Suppressing the Defects in CsPbI2Br Perovskite Photovoltaic Films via a Homogeneous Cap-Mediated Annealing Strategy. Energy & Fuels, 2021, 35, 11488-11495.	5.1	4
24	Extraterrestrial artificial photosynthetic materials for in-situ resource utilization. National Science Review, 2021, 8, nwab104.	9.5	17
25	Direct Molecule Substitution Enabled Rapid Transformation of Wet PbBr₂(DMF) Precursor Films to CsPbBr₃ Perovskite. ACS Applied Energy Materials, 2021, 4, 6414-6421.	5.1	7
26	2D Highâ€Entropy Hydrotalcites. Small, 2021, 17, e2103412.	10.0	27
27	Metastable-phase Î²-Fe2O3 photoanodes for solar water splitting with durability exceeding 100 h. Chinese Journal of Catalysis, 2021, 42, 1992-1998.	14.0	16
28	Lanthanum bismuth oxide photocatalysts for CO₂reduction to CO with high selectivity. Sustainable Energy and Fuels, 2021, 5, 2688-2694.	4.9	6
29	Carrier Mobility Enhancement in (121)-Oriented CsPbBr₃ Perovskite Films Induced by the Microstructure Tailoring of PbBr₂ Precursor Films. ACS Applied Electronic Materials, 2021, 3, 373-384.	4.3	30
30	Cooperative catalysis coupling photo-/photothermal effect to drive Sabatier reaction with unprecedented conversion and selectivity. Joule, 2021, 5, 3235-3251.	24.0	91
31	State-of-the-art advancements of crystal facet-exposed photocatalysts beyond TiO2: Design and dependent performance for solar energy conversion and environment applications. Materials Today, 2020, 33, 75-86.	14.2	97
32	Non-oxide semiconductors for artificial photosynthesis: Progress on photoelectrochemical water splitting and carbon dioxide reduction. Nano Today, 2020, 30, 100830.	11.9	76
33	Photocatalysis: an overview of recent developments and technological advancements. Science China Chemistry, 2020, 63, 149-181.	8.2	107
34	Curing the fundamental issue of impurity phases in two-step solution-processed CsPbBr3 perovskite films. Science Bulletin, 2020, 65, 726-737.	9.0	34
35	Modulation of Disordered Coordination Degree Based on Surface Defective Metalâ€“Organic Framework Derivatives toward Boosting Oxygen Evolution Electrocatalysis. Small, 2020, 16, e2003630.	10.0	44
36	Sol-gel synthesis of highly reproducible WO3 photoanodes for solar water oxidation. Science China Materials, 2020, 63, 2261-2271.	6.3	12

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37	Phase degradation of all-inorganic perovskite CsPbI2Br films induced by a p-type CuI granular capping layer. Science China Materials, 2020, 63, 2487-2496.	6.3	9
38	Paving the road toward the use of Î²-Fe2O3 in solar water splitting: Raman identification, phase transformation and strategies for phase stabilization. National Science Review, 2020, 7, 1059-1067.	9.5	38
39	Effects of oxygen impurity concentration on the interfacial properties of Ta3N5/Ta5N6 composite photoelectrode: A DFT calculation. Applied Catalysis B: Environmental, 2020, 278, 119296.	20.2	6
40	Suppression of Point Defects for Band Edge Engineering in a Semiconducting Photocatalyst. Journal of Physical Chemistry Letters, 2020, 11, 1708-1713.	4.6	11
41	Simultaneous Optimization of Phase and Morphology of CsPbBr 3 Films via Controllable Ostwald Ripening by Ethylene Glycol Monomethylether/Isopropanol Biâ€Solvent Engineering. Advanced Engineering Materials, 2020, 22, 2000162.	3.5	19
42	Molecular-level understanding of the deactivation pathways during methanol photo-reforming on Pt-decorated TiO2. Applied Catalysis B: Environmental, 2020, 272, 118980.	20.2	17
43	Polaron States as a Massive Electron-Transfer Pathway at Heterojunction Interface. Journal of Physical Chemistry Letters, 2020, 11, 9184-9194.	4.6	14
44	In situ preparation of Bi₂S₃ nanoribbon-anchored BiVO₄ nanoscroll heterostructures for the catalysis of Cr(<scp>vi</scp>) photoreduction. Catalysis Science and Technology, 2020, 10, 3843-3847.	4.1	14
45	Elegant Molecular Iodine/Antisolvent Solution Engineering To Tune the Fermi Level of Perovskite CH₃NH₃PbI₃. ACS Applied Energy Materials, 2019, 2, 5753-5758.	5.1	7
46	Effect of Bulk Hydrogen on the Photocatalytic Activity of Semiconducting Ta₃N₅: A Hybrid-DFT Viewpoint. Journal of Physical Chemistry C, 2019, 123, 28763-28768.	3.1	7
47	Defect Engineering in Semiconductors: Manipulating Nonstoichiometric Defects and Understanding Their Impact in Oxynitrides for Solar Energy Conversion. Advanced Functional Materials, 2019, 29, 1808389.	14.9	56
48	Construction of silica-encapsulated gold-silver core-shell nanorod: Atomic facets enrichment and plasmon enhanced catalytic activity with high stability and reusability. Materials and Design, 2019, 177, 107837.	7.0	21
49	Design Principles for Construction of Charge Transport Channels in Particle-Assembled Water-Splitting Photoelectrodes. ACS Sustainable Chemistry and Engineering, 2019, 7, 10509-10515.	6.7	13
50	Highly symmetrical, 24-faceted, concave BiVO₄ polyhedron bounded by multiple high-index facets for prominent photocatalytic O₂ evolution under visible light. Chemical Communications, 2019, 55, 4777-4780.	4.1	29
51	Interfacial Effects on the Band Edges of Ta3N5 Photoanodes in an Aqueous Environment: A Theoretical View. IScience, 2019, 13, 432-439.	4.1	10
52	BiVO₄ tubular structures: oxygen defect-rich and largely exposed reactive {010} facets synergistically boost photocatalytic water oxidation and the selective Nî€N coupling reaction of 5-amino-1H-tetrazole. Chemical Communications, 2019, 55, 5635-5638.	4.1	17
53	Charge compensation doping to improve the photocatalytic and photoelectrochemical activities of Ta3N5: A theoretical study. Applied Catalysis B: Environmental, 2019, 244, 502-510.	20.2	24
54	Heterogeneous degradation of organic contaminants in the photo-Fenton reaction employing pure cubic Î²-Fe2O3. Applied Catalysis B: Environmental, 2019, 245, 410-419.	20.2	107

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55	Reactive Inorganic Vapor Deposition of Perovskite Oxynitride Films for Solar Energy Conversion. Research, 2019, 2019, 9282674.	5.7	17
56	Surface states as electron transfer pathway enhanced charge separation in TiO2 nanotube water splitting photoanodes. Applied Catalysis B: Environmental, 2018, 234, 100-108.	20.2	77
57	High Energy Density Asymmetric Supercapacitor Based ZnS/NiCo₂S₄/Co₉S₈ Nanotube Composites Materials. Advanced Materials Interfaces, 2018, 5, 1800018.	3.7	54
58	Interfacial Engineering of Hierarchical Transition Metal Oxide Heterostructures for Highly Sensitive Sensing of Hydrogen Peroxide. Small, 2018, 14, e1703713.	10.0	40
59	Insight into the influence of high temperature annealing on the onset potential of Ti-doped hematite photoanodes for solar water splitting. Chinese Chemical Letters, 2018, 29, 791-794.	9.0	6
60	Tuning spontaneous polarization to alter water oxidation/reduction activities of LiNbO3. Applied Physics Letters, 2018, 112, .	3.3	11
61	Rational design of electrocatalysts for simultaneously promoting bulk charge separation and surface charge transfer in solar water splitting photoelectrodes. Journal of Materials Chemistry A, 2018, 6, 2568-2576.	10.3	56
62	Promoted photoelectrochemical activity of BiVO4 coupled with LaFeO3 and LaCoO3. Research on Chemical Intermediates, 2018, 44, 1013-1024.	2.7	10
63	Improving solar water-splitting performance of LaTaON2 by bulk defect control and interface engineering. Applied Catalysis B: Environmental, 2018, 226, 111-116.	20.2	26
64	Theoretical Insight into Charge-Recombination Center in Ta₃N₅ Photocatalyst: Interstitial Hydrogen. Journal of Physical Chemistry C, 2018, 122, 489-494.	3.1	9
65	Tandem photoelectrochemical cells for solar water splitting. Advances in Physics: X, 2018, 3, 1487267.	4.1	25
66	Exploring facile strategies for high-oxidation-state metal nitride synthesis: carbonate-assisted one-step synthesis of Ta3N5 films for solar water splitting. Science Bulletin, 2018, 63, 1404-1410.	9.0	19
67	Facet-Dependent Enhancement in the Activity of Bismuth Vanadate Microcrystals for the Photocatalytic Conversion of Methane to Methanol. ACS Applied Nano Materials, 2018, 1, 6683-6691.	5.0	79
68	Improved water-splitting performances of CuW1â^'xMoxO4 photoanodes synthesized by spray pyrolysis. Science China Materials, 2018, 61, 1297-1304.	6.3	22
69	Galvanic cell reaction driven electrochemical doping of TiO2 nanotube photoanodes for enhanced charge separation. Chemical Communications, 2018, 54, 11116-11119.	4.1	3
70	Effects of Mgâ€“Zr codoping on the photoelectrochemical properties of a Ta₃N₅semiconductor: a theoretical insight. Journal of Materials Chemistry A, 2017, 5, 6966-6973.	10.3	19
71	Selective Electrochemical Detection of Dopamine on Polyoxometalateâ€Based Metalâ€“Organic Framework and Its Composite with Reduced Graphene Oxide. Advanced Materials Interfaces, 2017, 4, 1601241.	3.7	51
72	Oxygen-Impurity-Induced Directâ€“Indirect Band Gap in Perovskite SrTaO₂N. Journal of Physical Chemistry C, 2017, 121, 6864-6867.	3.1	14

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73	A beta-Fe₂O₃ nanoparticle-assembled film for photoelectrochemical water splitting. Dalton Transactions, 2017, 46, 10673-10677.	3.3	27
74	A novel wide-spectrum response hexagonal YFeO₃ photoanode for solar water splitting. RSC Advances, 2017, 7, 18418-18420.	3.6	18
75	Current advances in MoS2/semiconductor heterojunction with enhanced photocatalytic activity. Current Opinion in Green and Sustainable Chemistry, 2017, 6, 42-47.	5.9	10
76	A facile spray pyrolysis method to prepare Ti-doped ZnFe₂O₄ for boosting photoelectrochemical water splitting. Journal of Materials Chemistry A, 2017, 5, 7571-7577.	10.3	113
77	Two-dimensional nanomaterials for photocatalytic CO₂reduction to solar fuels. Sustainable Energy and Fuels, 2017, 1, 1875-1898.	4.9	156
78	Bi₂MoO₆ Nanostrip Networks for Enhanced Visibleâ€Light Photocatalytic Reduction of CO₂ to CH₄. ChemPhysChem, 2017, 18, 3240-3244.	2.1	38
79	Improved charge separation efficiency of hematite photoanodes by coating an ultrathin p-type LaFeO₃ overlayer. Nanotechnology, 2017, 28, 394003.	2.6	9
80	Back Electron Transfer at TiO₂ Nanotube Photoanodes in the Presence of a H₂O₂ Hole Scavenger. ACS Applied Materials & Interfaces, 2017, 9, 33887-33895.	8.0	31
81	Threeâ€Dimensional Hierarchical Architectures Derived from Surfaceâ€Mounted Metalâ€“Organic Framework Membranes for Enhanced Electrocatalysis. Angewandte Chemie - International Edition, 2017, 56, 13781-13785.	13.8	193
82	Enhanced solar photocurrent of LaTaON₂ photoanodes via electrochemical treatment. IOP Conference Series: Materials Science and Engineering, 2017, 182, 012007.	0.6	2
83	Threeâ€Dimensional Hierarchical Architectures Derived from Surfaceâ€Mounted Metalâ€“Organic Framework Membranes for Enhanced Electrocatalysis. Angewandte Chemie, 2017, 129, 13969-13973.	2.0	42
84	Compensation of band-edge positions in titanium-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ta</mml:mi><mml:mn>3</mml:mn></mml:r mathvariant="normal">N</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math> photoanode for enhanced water splitting performance: A first-principles insight. Physical Review Materials, 2017, 1, .	2.4	11
85	Hydrogen Evolution Reaction of Î³-Mo0.5W0.5 C Achieved by High Pressure High Temperature Synthesis. Catalysts, 2016, 6, 208.	3.5	3
86	Enhanced InGaN/GaN photoelectrodes for visibleâ€lightâ€driven hydrogen generation by surface roughening. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2704-2708.	1.8	1
87	A perspective on perovskite oxide semiconductor catalysts for gas phase photoreduction of carbon dioxide. MRS Communications, 2016, 6, 216-225.	1.8	18
88	Formation of Hierarchical Structure Composed of (Co/Ni)Mn-LDH Nanosheets on MWCNT Backbones for Efficient Electrocatalytic Water Oxidation. ACS Applied Materials & Interfaces, 2016, 8, 14527-14534.	8.0	155
89	Enhanced Waterâ€Splitting Performance of Perovskite SrTaO₂N Photoanode Film through Ameliorating Interparticle Charge Transport. Advanced Functional Materials, 2016, 26, 7156-7163.	14.9	86
90	Layered crystalline ZnIn₂S₄nanosheets: CVD synthesis and photo-electrochemical properties. Nanoscale, 2016, 8, 18197-18203.	5.6	42

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91	Photoelectrochemical cell for unassisted overall solar water splitting using a BiVO₄photoanode and Si nanoarray photocathode. RSC Advances, 2016, 6, 9905-9910.	3.6	64
92	Theoretical study on the surface stabilities, electronic structures and water adsorption behavior of the Ta₃N₅(110) surface. Physical Chemistry Chemical Physics, 2016, 18, 7938-7945.	2.8	8
93	Significant improvements in InGaN/GaN nano-photoelectrodes for hydrogen generation by structure and polarization optimization. Scientific Reports, 2016, 6, 20218.	3.3	27
94	Enhancement of Photoelectrochemical Performance in Water Oxidation over Bismuth Vanadate Photoanodes by Incorporation with Reduced Graphene Oxide. ChemCatChem, 2015, 7, 2979-2985.	3.7	11
95	Unraveling the mechanism of 720 nm sub-band-gap optical absorption of a Ta₃N₅ semiconductor photocatalyst: a hybrid-DFT calculation. Physical Chemistry Chemical Physics, 2015, 17, 8166-8171.	2.8	34
96	Effects of oxygen impurities and nitrogen vacancies on the surface properties of the Ta₃N₅photocatalyst: a DFT study. Physical Chemistry Chemical Physics, 2015, 17, 23265-23272.	2.8	19
97	Enhanced Performance of Photoelectrochemical Water Splitting with ITO@Î±-Fe₂O₃ Coreâ€“Shell Nanowire Array as Photoanode. ACS Applied Materials & Interfaces, 2015, 7, 26482-26490.	8.0	60
98	Construction of Visible-Light-Responsive SrTiO3 with Enhanced CO2 Adsorption Ability: Highly Efficient Photocatalysts for Artifical Photosynthesis. Catalysis Letters, 2015, 145, 640-646.	2.6	29
99	Application of binder-free TiOxN1â^'x nanogrid film as a high-power supercapacitor electrode. Journal of Power Sources, 2015, 296, 53-63.	7.8	25
100	Solar fuel production: Strategies and new opportunities with nanostructures. Nano Today, 2015, 10, 468-486.	11.9	126
101	A hybrid density functional theory study of the anion distribution and applied electronic properties of the LaTiO₂N semiconductor photocatalyst. Physical Chemistry Chemical Physics, 2015, 17, 19631-19636.	2.8	11
102	Photocatalytic CO2 reduction of BaCeO3 with 4f configuration electrons. Applied Surface Science, 2015, 358, 463-467.	6.1	27
103	Barium zirconate: a new photocatalyst for converting CO₂ into hydrocarbons under UV irradiation. Catalysis Science and Technology, 2015, 5, 1758-1763.	4.1	44
104	Geâ€Mediated Modification in Ta₃N₅ Photoelectrodes with Enhanced Charge Transport for Solar Water Splitting. Chemistry - A European Journal, 2014, 20, 16384-16390.	3.3	38
105	Quantitative Analysis and Visualized Evidence for High Charge Separation Efficiency in a Solidâ€Liquid Bulk Heterojunction. Advanced Energy Materials, 2014, 4, 1301785.	19.5	88
106	Effects of Baâ€“O codoping on the photocatalytic activities of Ta₃N₅photocatalyst: a DFT study. RSC Advances, 2014, 4, 55615-55621.	3.6	9
107	Highly Photoâ€Responsive LaTiO₂N Photoanodes by Improvement of Charge Carrier Transport among Film Particles. Advanced Functional Materials, 2014, 24, 3535-3542.	14.9	166
108	MnO2 nanolayers on highly conductive TiO0.54N0.46 nanotubes for supercapacitor electrodes with high power density and cyclic stability. Physical Chemistry Chemical Physics, 2014, 16, 8521.	2.8	21

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109	Basic Molten Salt Route to Prepare Porous SrTiO₃ Nanocrystals for Efficient Photocatalytic Hydrogen Production. European Journal of Inorganic Chemistry, 2014, 2014, 3731-3735.	2.0	19
110	Role of oxygen impurity on the mechanical stability and atomic cohesion of Ta₃N₅ semiconductor photocatalyst. Physical Chemistry Chemical Physics, 2014, 16, 15375-15380.	2.8	37
111	Cathodic shift of onset potential for water oxidation on a Ti⁴⁺doped Fe₂O₃photoanode by suppressing the back reaction. Energy and Environmental Science, 2014, 7, 752-759.	30.8	228
112	Photoelectrochemical water oxidation of LaTaON2 under visible-light irradiation. International Journal of Hydrogen Energy, 2014, 39, 7697-7704.	7.1	53
113	Effects of oxygen doping on optical band gap and band edge positions of Ta3N5 photocatalyst: A GGA+U calculation. Journal of Catalysis, 2014, 309, 291-299.	6.2	67
114	Improvement in photocatalytic H2 evolution over g-C3N4 prepared from protonated melamine. Applied Surface Science, 2014, 295, 253-259.	6.1	119
115	Enhanced luminescence intensity of Sr3B2O6:Eu2+ phosphor prepared by solâ€“gel method. Journal of Alloys and Compounds, 2013, 579, 432-437.	5.5	20
116	A Coâ€catalystâ€Loaded Ta₃N₅ Photoanode with a High Solar Photocurrent for Water Splitting upon Facile Removal of the Surface Layer. Angewandte Chemie - International Edition, 2013, 52, 11016-11020.	13.8	208
117	Efficient red phosphor double-perovskite Ca3WO6 with A-site substitution of Eu3+. Dalton Transactions, 2013, 42, 13502.	3.3	39
118	Theoretical study of water adsorption and dissociation on Ta3N5(100) surfaces. Physical Chemistry Chemical Physics, 2013, 15, 16054.	2.8	28
119	A transparent Ti4+ doped hematite photoanode protectively grown by a facile hydrothermal method. CrystEngComm, 2013, 15, 2386.	2.6	42
120	Photoelectrochemical cells for solar hydrogen production: current state of promising photoelectrodes, methods to improve their properties, and outlook. Energy and Environmental Science, 2013, 6, 347-370.	30.8	969
121	Formation energy and photoelectrochemical properties of BiVO₄after doping at Bi³⁺or V⁵⁺sites with higher valence metal ions. Physical Chemistry Chemical Physics, 2013, 15, 1006-1013.	2.8	138
122	Tunable orange red phosphors: S^{2â^'}-doped high temperature phase Ca₃SiO₄Cl₂:Eu²⁺for solid-state lighting. RSC Advances, 2013, 3, 1965-1969.	3.6	12
123	Zinc Gallogermanate Solid Solution: A Novel Photocatalyst for Efficiently Converting CO₂ into Solar Fuels. Advanced Functional Materials, 2013, 23, 1839-1845.	14.9	89
124	Highly efficient visible light photocatalytic activity of Crâ€“La codoped SrTiO3 with surface alkalinization: An insight from DFT calculation. Computational Materials Science, 2013, 79, 87-94.	3.0	19
125	An efficient charge compensated red phosphor Sr3WO6: K+, Eu3+ â€“ For white LEDs. Journal of Alloys and Compounds, 2013, 553, 221-224.	5.5	50
126	Na adsorption on SrTiO3 (0 0 1) surface and its interaction with water: A DFT calculation. Applied Surface Science, 2013, 270, 359-363.	6.1	6

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127	Water Adsorption and Decomposition on N/V-Doped Anatase TiO₂ (101) Surfaces. Journal of Physical Chemistry C, 2013, 117, 6172-6184.	3.1	24
128	Nearly Monodispersed LiNbO₃ Nanocrystals Synthesized by a Nonaqueous Solâ€“Gel Process and Their Photocatalytic H₂ Evolution Activities. European Journal of Inorganic Chemistry, 2013, 2013, 4142-4145.	2.0	10
129	An Ionâ€Exchange Phase Transformation to ZnGa₂O₄ Nanocube Towards Efficient Solar Fuel Synthesis. Advanced Functional Materials, 2013, 23, 758-763.	14.9	72
130	Semiconductors for Photoelectrochemical Hydrogen Generation. , 2013, , 201-232.		0
131	InnenrÃ¼cktitelbild: A Co-catalyst-Loaded Ta3N5Photoanode with a High Solar Photocurrent for Water Splitting upon Facile Removal of the Surface Layer (Angew. Chem. 42/2013). Angewandte Chemie, 2013, 125, 11381-11381.	2.0	0
132	Firstâ€Principles Calculations on Electronic Structures of N/Vâ€Doped and Nâ€Vâ€Dodoped Anatase TiO₂ (101) Surfaces. ChemPhysChem, 2012, 13, 3836-3847.	2.1	21
133	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.	2.8	40
134	A facile strategy to passivate surface states on the undoped hematite photoanode for water splitting. Electrochemistry Communications, 2012, 23, 41-43.	4.7	43
135	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.	3.1	70
136	Effects of Surface Electrochemical Pretreatment on the Photoelectrochemical Performance of Mo-Doped BiVO₄. Journal of Physical Chemistry C, 2012, 116, 5076-5081.	3.1	172
137	A dye-free photoelectrochemical solar cell based on BiVO4 with a long lifetime of photogenerated carriers. Electrochemistry Communications, 2012, 22, 49-52.	4.7	21
138	Interfacial modification of photoelectrode in ZnO-based dye-sensitized solar cells and its efficiency improvement mechanism. RSC Advances, 2012, 2, 7708.	3.6	26
139	Efficient visible-light-driven photocatalytic H2 production over Cr/N-codoped SrTiO3. International Journal of Hydrogen Energy, 2012, 37, 12120-12127.	7.1	90
140	ZnO plates synthesized from the ammonium zinc nitrate hydroxide precursor. CrystEngComm, 2012, 14, 154-159.	2.6	34
141	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.	3.1	64
142	Co₃O₄ Nanoparticles as Robust Water Oxidation Catalysts Towards Remarkably Enhanced Photostability of a Ta₃N₅ Photoanode. Advanced Functional Materials, 2012, 22, 3066-3074.	14.9	205
143	Two-step reactive template route to a mesoporous ZnGaNO solid solution for improved photocatalytic performance. Journal of Materials Chemistry, 2011, 21, 5682.	6.7	29
144	Structure and energetics of low-index stoichiometric monoclinic clinobisvanite BiVO4 surfaces. RSC Advances, 2011, 1, 874.	3.6	58

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145	Remarkable enhancement in photocurrent of In0.20Ga0.80N photoanode by using an electrochemical surface treatment. Applied Physics Letters, 2011, 99, .	3.3	27
146	BiVO4 nanoâ€“leaves: Mild synthesis and improved photocatalytic activity for O2 production under visible light irradiation. CrystEngComm, 2011, 13, 2500.	2.6	65
147	Solvothermal synthesis of monodisperse iron oxides with various morphologies and their applications in removal of Cr(vi). CrystEngComm, 2011, 13, 2727.	2.6	25
148	Solar hydrogen generation from seawater with a modified BiVO4 photoanode. Energy and Environmental Science, 2011, 4, 4046.	30.8	564
149	Electronic structure and optical properties of monoclinic clinobisvanite BiVO4. Physical Chemistry Chemical Physics, 2011, 13, 4746.	2.8	327
150	Solâ€“gel hydrothermal synthesis of visible-light-driven Cr-doped SrTiO3 for efficient hydrogen production. Journal of Materials Chemistry, 2011, 21, 11347.	6.7	157
151	Facile temperature-controlled synthesis of hexagonal Zn2GeO4nanorods with different aspect ratios toward improved photocatalytic activity for overall water splitting and photoreduction of CO2. Chemical Communications, 2011, 47, 5632-5634.	4.1	159
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