

# Hua-Gui Yang

## 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.

249  
papers

22,670  
citations

66  
h-index

148  
g-index

270  
ext. papers

25,141  
ext. citations

10.3  
avg, IF

7.05  
L-index

#	Paper	IF	Citations
249	Non-selective adsorption of organic cations enables conformal surface capping of perovskite grains for stabilized photovoltaic operation. <i>Cell Reports Physical Science</i> , <b>2022</b> , 3, 100760	6.1	0
248	A Self-Formed Stable Pbl /NiO Interface with Increased Ni Centers for Perovskite Photovoltaics.. <i>Chemistry - A European Journal</i> , <b>2022</b> , e202200202	4.8	1
247	Molecularly Dispersed Cobalt Phthalocyanine Mediates Selective and Durable CO 2 Reduction in a Membrane Flow Cell (Adv. Funct. Mater. 11/2022). <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2270070	15.6	0
246	Hydrogen Spillover-Bridged Volmer/Tafel Processes Enabling Ampere-Level Current Density Alkaline Hydrogen Evolution Reaction under Low Overpotential.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	24
245	Operando High-Valence Cr-Modified NiFe Hydroxides for Water Oxidation.. <i>Small</i> , <b>2022</b> , e2200303	11	7
244	Installation of high-valence tungsten in MIL-125(Ti) for boosted photocatalytic hydrogen evolution. <i>Science China Materials</i> , <b>2022</b> , 65, 1237-1244	7.1	0
243	Operando Converting BiOCl into BiO(CO)Cl for Efficient Electrocatalytic Reduction of Carbon Dioxide to Formate.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 121	19.5	0
242	Highly Ethylene-Selective Electrocatalytic CO Reduction Enabled by Isolated Cu-S Motifs in Metal-Organic Framework Based Precatalysts. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> ,	16.4	5
241	Molecularly Dispersed Cobalt Phthalocyanine Mediates Selective and Durable CO2 Reduction in a Membrane Flow Cell. <i>Advanced Functional Materials</i> , <b>2021</b> , 2107301	15.6	5
240	Boric Acid Mediated Formation and Doping of NiOx Layers for Perovskite Solar Cells with Efficiency over 21%. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000810	7.1	5
239	Oriented inorganic perovskite absorbers processed by colloidal-phase fumigation. <i>Science China Materials</i> , <b>2021</b> , 64, 2421-2429	7.1	4
238	Grey hematite photoanodes decrease the onset potential in photoelectrochemical water oxidation. <i>Science Bulletin</i> , <b>2021</b> , 66, 1013-1021	10.6	4
237	Highly ordered mesoporous Co3O4 cubes/graphene oxide heterostructure as efficient counter electrodes in dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 16519-16527	2.1	3
236	Origin of Water-Induced Deactivation of MnO2-Based Catalyst for Room-Temperature NO Oxidation: A First-Principles Microkinetic Study. <i>ACS Catalysis</i> , <b>2021</b> , 11, 6835-6845	13.1	1
235	Innenraktitelbild: Boosting Photocatalytic Water Oxidation Over Bifunctional Rh0-Rh3+ Sites (Angew. Chem. 42/2021). <i>Angewandte Chemie</i> , <b>2021</b> , 133, 23211	3.6	
234	Boosting Photocatalytic Water Oxidation Over Bifunctional Rh0-Rh3+ Sites. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 22943	3.6	0
233	Modulating MAPbI3 perovskite solar cells by amide molecules: Crystallographic regulation and surface passivation. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 56, 179-185	12	13

232	Epitaxial halide perovskite-based materials for photoelectric energy conversion. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 127-157	35.4	17
231	Graphite carbon nitride doped with a benzene ring for enhanced photocatalytic H evolution. <i>Chemical Communications</i> , <b>2021</b> , 57, 3042-3045	5.8	7
230	A low-valent cobalt oxide co-catalyst to boost photocatalytic water oxidation via enhanced hole-capturing ability. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 14786-14792	13	9
229	A template-free synthesis of mesoporous SrTiO <sub>3</sub> single crystals. <i>CrystEngComm</i> , <b>2021</b> , 23, 5595-5600	3.3	
228	Boosting Photocatalytic Water Oxidation Over Bifunctional Rh -Rh Sites. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 22761-22768	16.4	4
227	Mediating the Local Oxygen-Bridge Interactions of Oxysalt/Perovskite Interface for Defect Passivation of Perovskite Photovoltaics. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 177	19.5	9
226	Homogeneous doping of entire perovskite solar cells via alkali cation diffusion from the hole transport layer. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 9266-9271	13	4
225	Towards the object-oriented design of active hydrogen evolution catalysts on single-atom alloys. <i>Chemical Science</i> , <b>2021</b> , 12, 10634-10642	9.4	4
224	Inverted perovskite solar cells based on potassium salt-modified NiOX hole transport layers. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 3614-3620	7.8	3
223	Activation strategies of water-splitting electrocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 100961-1012935	13.5	35
222	Controllable synthesis of conical BiVO <sub>4</sub> for photocatalytic water oxidation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2331-2335	13	11
221	Ultrathin Hematite Photoanode with Gradient Ti Doping. <i>Research</i> , <b>2020</b> , 2020, 5473217	7.8	5
220	One-step coating of commercial Ni nanoparticles with a Ni, N-co-doped carbon shell towards efficient electrocatalysts for CO reduction. <i>Chemical Communications</i> , <b>2020</b> , 56, 7495-7498	5.8	7
219	Carboxyl functionalized graphite carbon nitride for remarkably enhanced photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 266, 118590	21.8	29
218	Diammonium-Cesium Lead Halide Perovskite with Phase-Segregated Interpenetrating Morphology for Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 747-754	6.4	9
217	Positively charged Pt-based cocatalysts: an orientation for achieving efficient photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17-26	13	34
216	Nitrogen-Stabilized Low-Valent Ni Motifs for Efficient CO <sub>2</sub> Electrocatalysis. <i>ACS Catalysis</i> , <b>2020</b> , 10, 10861-109345	6.1	45
215	Recent Advances in Photocatalysis over MetalOrganic Frameworks-Based Materials. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900438	7.1	11

214	A Dendrite-Structured RbX (X=Br, I) Interlayer for CsPbI <sub>2</sub> Br Perovskite Solar Cells with Over 15 % Stabilized Efficiency. <i>ChemSusChem</i> , <b>2020</b> , 13, 5342	8.3	
213	A Dendrite-Structured RbX (X=Br, I) Interlayer for CsPbI <sub>2</sub> Br Perovskite Solar Cells with Over 15 % Stabilized Efficiency. <i>ChemSusChem</i> , <b>2020</b> , 13, 5443-5448	8.3	4
212	Water assisted formation of highly oriented CsPbI <sub>2</sub> Br perovskite films with the solar cell efficiency exceeding 16%. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17670-17674	13	19
211	Perovskite Microcrystals with Intercalated Monolayer MoS <sub>2</sub> Nanosheets as Advanced Photocatalyst for Solar-Powered Hydrogen Generation. <i>Matter</i> , <b>2020</b> , 3, 935-949	12.7	34
210	Carbon Nanotubes Codoped with Nickel and Nitrogen for Electrochemical Syngas Production. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 8581-8585	5.6	
209	Surface chelation of cesium halide perovskite by dithiocarbamate for efficient and stable solar cells. <i>Nature Communications</i> , <b>2020</b> , 11, 4237	17.4	62
208	Spontaneous Passivation of Perovskite Solar Cells by Titanium Tetrafluoride. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 4121-4126	6.1	3
207	Accelerated proton transmission in metal-organic frameworks for the efficient reduction of CO <sub>2</sub> in aqueous solutions. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 23055-23063	13	10
206	Deepening the Valance Band Edges of NiOx Contacts by Alkaline Earth Metal Doping for Efficient Perovskite Photovoltaics with High Open-Circuit Voltage. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900192	7.1	23
205	Hyperbranched Conjugated Polymer Dots: The Enhanced Photocatalytic Activity for Visible Light-Driven Hydrogen Production. <i>Macromolecules</i> , <b>2019</b> , 52, 4376-4384	5.5	34
204	Enhanced CO <sub>2</sub> electroreduction performance over Cl-modified metal catalysts. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12420-12425	13	24
203	Fundamental Understanding of Photocurrent Hysteresis in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803017	21.8	148
202	Enhanced moisture stability of metal halide perovskite solar cells based on sulfur-oleylamine surface modification. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 208-213	10.8	36
201	NiCoO <sub>4</sub> hole transport materials: gap state assisted hole extraction with superior electrical conductivity. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20905-20910	13	17
200	Boosting Alkaline Hydrogen Evolution Electrocatalysis over Metallic Nickel Sites through Synergistic Coupling with Vanadium Sesquioxide. <i>ChemSusChem</i> , <b>2019</b> , 12, 5063-5069	8.3	11
199	Bismuth oxyiodide microflower-derived catalysts for efficient CO electroreduction in a wide negative potential region. <i>Chemical Communications</i> , <b>2019</b> , 55, 12392-12395	5.8	16
198	Reconstructing bimetallic carbide Mo <sub>6</sub> Ni <sub>6</sub> C for carbon interconnected MoNi alloys to boost oxygen evolution electrocatalysis. <i>Materials Horizons</i> , <b>2019</b> , 6, 115-121	14.4	39
197	A one-pot method for controlled synthesis and selective etching of organic-inorganic hybrid perovskite crystals. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 33, 149-154	12	2

196	Rapid-Heating-Triggered in Situ Solid-State Transformation of Amorphous TiO <sub>2</sub> Nanotubes into Well-Defined Anatase Nanocrystals. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 1086-1094	3.5	3
195	A Gradient Heterostructure Based on Tolerance Factor in High-Performance Perovskite Solar Cells with 0.84 Fill Factor. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804217	24	70
194	Carbon-coated three-dimensional WS <sub>2</sub> film consisting of WO <sub>3</sub> @WS <sub>2</sub> core-shell blocks and layered WS <sub>2</sub> nanostructures as counter electrodes for efficient dye-sensitized solar cells. <i>Electrochimica Acta</i> , <b>2018</b> , 266, 130-138	6.7	10
193	N-Modified NiO Surface for Superior Alkaline Hydrogen Evolution. <i>ChemSusChem</i> , <b>2018</b> , 11, 1020-1024	8.3	9
192	One dimensional hierarchical nanostructures composed of CdS nanosheets/nanoparticles and Ag nanowires with promoted photocatalytic performance. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 903-915	6.8	9
191	Notable hydrogen production on La <sub>x</sub> Ca <sub>1-x</sub> CoO <sub>3</sub> perovskites via two-step thermochemical water splitting. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 6796-6806	4.3	15
190	Enhanced Thermochemical H <sub>2</sub> Production on Ca-Doped Lanthanum Manganite Perovskites Through Optimizing the Dopant Level and Re-oxidation Temperature. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2018</b> , 31, 431-439	2.5	6
189	Surface Electronic Modification of Perovskite Thin Film with Water-Resistant Electron Delocalized Molecules for Stable and Efficient Photovoltaics. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703143	21.8	62
188	A Solution-Processed Transparent NiO Hole-Extraction Layer for High-Performance Inverted Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 2845-2849	4.8	40
187	Accelerating Neutral Hydrogen Evolution with Tungsten Modulated Amorphous Metal Hydroxides. <i>ACS Catalysis</i> , <b>2018</b> , 8, 5200-5205	13.1	49
186	In situ and real-time ToF-SIMS analysis of light-induced chemical changes in perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>Chemical Communications</i> , <b>2018</b> , 54, 5434-5437	5.8	14
185	WO <sub>3</sub> nanoflakes decorated with CuO clusters for enhanced photoelectrochemical water splitting. <i>Progress in Natural Science: Materials International</i> , <b>2018</b> , 28, 200-204	3.6	15
184	Simple Cadmium Sulfide Compound with Stable 95 % Selectivity for Carbon Dioxide Electroreduction in Aqueous Medium. <i>ChemSusChem</i> , <b>2018</b> , 11, 1421-1425	8.3	21
183	Local coulomb attraction for enhanced H <sub>2</sub> evolution stability of metal sulfide photocatalysts. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 221, 152-157	21.8	13
182	1D/1D Hierarchical Nickel Sulfide/Phosphide Nanostructures for Electrocatalytic Water Oxidation. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2021-2029	20.1	65
181	Partially Oxidized Palladium Nanodots for Enhanced Electrocatalytic Carbon Dioxide Reduction. <i>Chemistry - an Asian Journal</i> , <b>2018</b> , 13, 2800-2804	4.5	3
180	Surface engineering of nickel selenide for an enhanced intrinsic overall water splitting ability. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 1725-1731	7.8	30
179	Sharp-Tipped Zinc Nanowires as an Efficient Electrocatalyst for Carbon Dioxide Reduction. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 15486-15490	4.8	11

178	Copper-modulated bismuth nanocrystals alter the formate formation pathway to achieve highly selective CO <sub>2</sub> electroreduction. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 16804-16809	13	40
177	Bimetallic Carbide as a Stable Hydrogen Evolution Catalyst in Harsh Acidic Water. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 78-84	20.1	35
176	Ce <sub>0.3</sub> Zr <sub>0.7</sub> O <sub>1.88</sub> N <sub>0.12</sub> solid solution as a stable photocatalyst for visible light driven water splitting. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 224, 733-739	21.8	3
175	Remarkably enhanced water splitting activity of nickel foam due to simple immersion in a ferric nitrate solution. <i>Nano Research</i> , <b>2018</b> , 11, 3959-3971	10	45
174	Tuning Metal Catalyst with Metal-C <sub>3</sub> N <sub>4</sub> Interaction for Efficient CO <sub>2</sub> Electroreduction. <i>ACS Catalysis</i> , <b>2018</b> , 8, 11035-11041	13.1	94
173	Cobalt Covalent Doping in MoS <sub>2</sub> to Induce Bifunctionality of Overall Water Splitting. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801450	24	273
172	Ultrathin Transition Metal Dichalcogenide/3d Metal Hydroxide Hybridized Nanosheets to Enhance Hydrogen Evolution Activity. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801171	24	134
171	Enhanced Thermochemical Water Splitting through Formation of Oxygen Vacancy in La Sr BO (B=Cr, Mn, Fe, Co, and Ni) Perovskites. <i>ChemPlusChem</i> , <b>2018</b> , 83, 924-928	2.8	10
170	Effects of redox mediators on Fe <sub>2</sub> O <sub>3</sub> exposed by {012} and {104} facets for photocatalytic water oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 206, 216-220	21.8	41
169	BiOI Nanosheets Grown by Chemical Vapor Deposition and Its Conversion to Highly Efficient BiVO <sub>4</sub> Photoanode. <i>Chinese Journal of Chemistry</i> , <b>2017</b> , 35, 30-34	4.9	3
168	Facile Fabrication of Large-Aspect-Ratio g-C <sub>3</sub> N <sub>4</sub> Nanosheets for Enhanced Photocatalytic Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 2039-2043	8.3	74
167	Band-aligned C <sub>3</sub> N <sub>4</sub> /S <sub>3</sub> x/2 stabilizes CdS/CuInGaS <sub>2</sub> photocathodes for efficient water reduction. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3167-3171	13	8
166	Mo activated multimetal oxygen-evolving catalysts. <i>Chemical Science</i> , <b>2017</b> , 8, 3484-3488	9.4	88
165	Water-soluble inorganic photocatalyst for overall water splitting. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 209, 247-252	21.8	13
164	Low-temperature processed In <sub>2</sub> S <sub>3</sub> electron transport layer for efficient hybrid perovskite solar cells. <i>Nano Energy</i> , <b>2017</b> , 36, 102-109	17.1	74
163	The origin of enhanced photocatalytic activities of hydrogenated TiO <sub>2</sub> nanoparticles. <i>Dalton Transactions</i> , <b>2017</b> , 46, 10694-10699	4.3	19
162	A Band-Edge Potential Gradient Heterostructure to Enhance Electron Extraction Efficiency of the Electron Transport Layer in High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1700878	15.6	58
161	Surface-functionalized perovskite films for stable photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 910-913	13	44

160	Amorphous ferric oxide as a hole-extraction and transfer layer on nanoporous bismuth vanadate photoanode for water oxidation. <i>Chinese Journal of Catalysis</i> , <b>2017</b> , 38, 1045-1051	11.3	4
159	Carbon-encapsulated heazlewoodite nanoparticles as highly efficient and durable electrocatalysts for oxygen evolution reactions. <i>Nano Research</i> , <b>2017</b> , 10, 3522-3533	10	23
158	Black Tungsten Nitride as a Metallic Photocatalyst for Overall Water Splitting Operable at up to 765 nm. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 7538-7542	3.6	9
157	Black Tungsten Nitride as a Metallic Photocatalyst for Overall Water Splitting Operable at up to 765 nm. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 7430-7434	16.4	64
156	Ca <sup>2+</sup> and Ga <sup>3+</sup> doped LaMnO <sub>3</sub> perovskite as a highly efficient and stable catalyst for two-step thermochemical water splitting. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 1013-1017	5.8	23
155	Thermally Induced Crystallization of High Quality CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Film with Large Grains for Highly Efficient Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 5658-5662	4.8	6
154	Molten Salt-Assisted Growth of Perovskite Films with Submillimeter-Sized Grains. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 524-529	3.9	3
153	Controllable Synthesis of Hexagonal WO <sub>3</sub> Nanoplates for Efficient Visible-Light-Driven Photocatalytic Oxygen Production. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 387-391	4.5	10
152	Facile fabrication of high-yield graphitic carbon nitride with a large surface area using bifunctional urea for enhanced photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 205, 624-630	21.8	38
151	Quantitative analysis of the PtO <sub>2</sub> structure during photocatalytic water splitting by operando XAFS. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 20631-20634	13	22
150	Metallic Ni <sub>3</sub> P/Ni <sub>3</sub> Co-Catalyst To Enhance Photocatalytic Hydrogen Evolution. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 16734-16737	4.8	12
149	La <sub>1-x</sub> Ca <sub>x</sub> Mn <sub>1-y</sub> Al <sub>y</sub> O <sub>3</sub> perovskites as efficient catalysts for two-step thermochemical water splitting in conjunction with exceptional hydrogen yields. <i>Chinese Journal of Catalysis</i> , <b>2017</b> , 38, 1079-1086	11.3	16
148	Brønsted base site engineering of graphitic carbon nitride for enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 19227-19236	13	24
147	Ni <sub>2</sub> P(O)/Fe <sub>2</sub> P(O) Interface Can Boost Oxygen Evolution Electrocatalysis. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2257-2263	20.1	116
146	Fabrication of TiO <sub>2</sub> /β-Cyclodextrin Double-Ring Composite and Its Photodegradation Performance. <i>ChemistrySelect</i> , <b>2017</b> , 2, 11231-11234	1.8	
145	Isolation of single Pt atoms in a silver cluster: forming highly efficient silver-based cocatalysts for photocatalytic hydrogen evolution. <i>Chemical Communications</i> , <b>2017</b> , 53, 9402-9405	5.8	55
144	Rhodium Dopants on Zn <sub>1-x</sub> Ge <sub>x</sub> O Surfaces as Active Sites for Photocatalytic Water Splitting. <i>ChemPlusChem</i> , <b>2017</b> , 82, 199-203	2.8	2
143	Nickel nanoparticles coated with graphene layers as efficient co-catalyst for photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 200, 578-584	21.8	59

142	One-step fabrication of porous oxygen-doped g-CN with feeble nitrogen vacancies for enhanced photocatalytic performance. <i>Chemical Communications</i> , <b>2016</b> , 52, 14408-14411	5.8	73
141	Functionalization of perovskite thin films with moisture-tolerant molecules. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	369
140	Operando NMR spectroscopic analysis of proton transfer in heterogeneous photocatalytic reactions. <i>Nature Communications</i> , <b>2016</b> , 7, 11918	17.4	43
139	One-step solid phase synthesis of a highly efficient and robust cobalt pentlandite electrocatalyst for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 18314-18321	13	80
138	The surface sulfur doping induced enhanced performance of cobalt catalysts in oxygen evolution reactions. <i>Chemical Communications</i> , <b>2016</b> , 52, 9450-3	5.8	34
137	A low-temperature processed flower-like TiO <sub>2</sub> array as an electron transport layer for high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 6521-6526	13	36
136	Homogeneously dispersed multimetal oxygen-evolving catalysts. <i>Science</i> , <b>2016</b> , 352, 333-7	33.3	1459
135	Atomically isolated nickel species anchored on graphitized carbon for efficient hydrogen evolution electrocatalysis. <i>Nature Communications</i> , <b>2016</b> , 7, 10667	17.4	435
134	Engineered Hematite Mesoporous Single Crystals Drive Drastic Enhancement in Solar Water Splitting. <i>Nano Letters</i> , <b>2016</b> , 16, 427-33	11.5	65
133	MgO@TiO <sub>2</sub> catalysts templated by a PDMS/PEO comb-like copolymer for transesterification of vegetable oil to biodiesel. <i>Fuel</i> , <b>2016</b> , 165, 215-223	7.1	23
132	Strongly Coupled CoCr <sub>2</sub> O <sub>4</sub> /Carbon Nanosheets as High Performance Electrocatalysts for Oxygen Evolution Reaction. <i>Small</i> , <b>2016</b> , 12, 2866-71	11	76
131	Defect-Rich Ultrathin Cobalt-Iron Layered Double Hydroxide for Electrochemical Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 34474-34481	9.5	240
130	Hierarchical structure engineering of brookite TiO <sub>2</sub> crystals for enhanced photocatalytic and external antitumor property. <i>Science Bulletin</i> , <b>2016</b> , 61, 1818-1825	10.6	12
129	Electrochemical etching of cobalt hydroxide for improvement of oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 9578-9584	13	91
128	TiO <sub>2</sub> cement for high-performance dye-sensitized solar cells. <i>RSC Advances</i> , <b>2016</b> , 6, 83802-83807	3.7	2
127	Enhancing alkaline hydrogen evolution reaction activity through Ni-Mn <sub>3</sub> O <sub>4</sub> nanocomposites. <i>Chemical Communications</i> , <b>2016</b> , 52, 10566-9	5.8	70
126	An in situ vapour phase hydrothermal surface doping approach for fabrication of high performance Co <sub>3</sub> O <sub>4</sub> electrocatalysts with an exceptionally high S-doped active surface. <i>Chemical Communications</i> , <b>2015</b> , 51, 5695-7	5.8	41
125	Formation of high-quality perovskite thin film for planar heterojunction solar cells. <i>RSC Advances</i> , <b>2015</b> , 5, 69502-69508	3.7	15



124	Critical roles of co-catalysts for molecular hydrogen formation in photocatalysis. <i>Journal of Catalysis</i> , <b>2015</b> , 330, 120-128	7.3	48
123	Ultrathin nanosheets constructed CoMoO <sub>4</sub> porous flowers with high activity for electrocatalytic oxygen evolution. <i>Chemical Communications</i> , <b>2015</b> , 51, 14361-4	5.8	132
122	Crystal shape engineering of anatase TiO <sub>2</sub> and its biomedical applications. <i>CrystEngComm</i> , <b>2015</b> , 17, 6617-6631	3.3	21
121	Direct insight into crystallization and stability of hybrid perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> via solvothermal synthesis. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 15854-15857	13	20
120	Thermal-Induced Volmer-Weber Growth Behavior for Planar Heterojunction Perovskites Solar Cells. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5116-5121	9.6	92
119	A fluorescent quenching performance enhancing principle for carbon nanodot-sensitized aqueous solar cells. <i>Nano Energy</i> , <b>2015</b> , 13, 124-130	17.1	29
118	Controlled Oriented Attachment of Bipyramidal-Shaped Anatase TiO <sub>2</sub> and Their Enhanced Performance in Dye-Sensitized Solar Cells. <i>ChemPlusChem</i> , <b>2015</b> , 80, 805-809	2.8	7
117	A novel strategy for tailoring copper oxide cluster with Pt-like activity for photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 15454-15459	6.7	8
116	Local atomic structure modulations activate metal oxide as electrocatalyst for hydrogen evolution in acidic water. <i>Nature Communications</i> , <b>2015</b> , 6, 8064	17.4	214
115	Novel PtO decorated MWCNTs as a highly efficient counter electrode for dye-sensitized solar cells. <i>RSC Advances</i> , <b>2015</b> , 5, 8307-8310	3.7	5
114	Density Functional Studies of Stoichiometric Surfaces of Orthorhombic Hybrid Perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 1136-1145	3.8	64
113	Self-supported bimodal-pore structured nitrogen-doped carbon fiber aerogel as electrocatalyst for oxygen reduction reaction. <i>Electrochemistry Communications</i> , <b>2015</b> , 51, 6-10	5.1	44
112	Multifunctional Inverse Opal-Like TiO <sub>2</sub> Electron Transport Layer for Efficient Hybrid Perovskite Solar Cells. <i>Advanced Science</i> , <b>2015</b> , 2, 1500105	13.6	54
111	Chemical Vapor Deposition of FeOCl Nanosheet Arrays and Their Conversion to Porous Fe <sub>2</sub> O <sub>3</sub> Photoanodes for Photoelectrochemical Water Splitting. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 18024-18028	4.8	15
110	Orange Zinc Germanate with Metallic Ge-Ge Bonds as a Chromophore-Like Center for Visible-Light-Driven Water Splitting. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 11629-11633	3.6	3
109	Orange Zinc Germanate with Metallic Ge-Ge Bonds as a Chromophore-Like Center for Visible-Light-Driven Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 11467-71	16.4	17
108	Switching the photocatalytic activity of g-C <sub>3</sub> N <sub>4</sub> by homogenous surface chemical modification with nitrogen residues and vacancies. <i>RSC Advances</i> , <b>2015</b> , 5, 21430-21433	3.7	18
107	Mn <sub>3</sub> O <sub>4</sub> nano-octahedrons on Ni foam as an efficient three-dimensional oxygen evolution electrocatalyst. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 14101-14104	13	80

106	The search for efficient electrocatalysts as counter electrode materials for dye-sensitized solar cells: mechanistic study, material screening and experimental validation. <i>NPG Asia Materials</i> , <b>2015</b> , 7, e226-e226	10.3	38
105	Manipulating solar absorption and electron transport properties of rutile TiO <sub>2</sub> photocatalysts via highly n-type F-doping. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 3513	13	49
104	Density functional theory analysis of structural and electronic properties of orthorhombic perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 1424-9	3.6	284
103	Stable isolated metal atoms as active sites for photocatalytic hydrogen evolution. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 2138-44	4.8	132
102	Titania single crystals with a curved surface. <i>Nature Communications</i> , <b>2014</b> , 5, 5355	17.4	73
101	Formation Mechanism of Freestanding CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Functional Crystals: In Situ Transformation vs Dissolution–Crystallization. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6705-6710	9.6	130
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99	Structure disorder of graphitic carbon nitride induced by liquid-assisted grinding for enhanced photocatalytic conversion. <i>RSC Advances</i> , <b>2014</b> , 4, 10676-10679	3.7	23
98	Precisely controlled heterogeneous nucleation sites for TiO <sub>2</sub> crystal growth. <i>CrystEngComm</i> , <b>2014</b> , 16, 7502	3.3	8
97	A {0001} faceted single crystal NiS nanosheet electrocatalyst for dye-sensitized solar cells: sulfur-vacancy induced electrocatalytic activity. <i>Chemical Communications</i> , <b>2014</b> , 50, 5569-71	5.8	54
96	Turning commercial transition-metal oxides into efficient electrocatalysts via facile hydrogen treatment. <i>RSC Advances</i> , <b>2014</b> , 4, 12534	3.7	1
95	Molybdenum carbide stabilized on graphene with high electrocatalytic activity for hydrogen evolution reaction. <i>Chemical Communications</i> , <b>2014</b> , 50, 13135-7	5.8	194
94	In situ growth of mirror-like platinum as highly-efficient counter electrode with light harvesting function for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 1641-1646	13	17
93	Platinum@regular indium oxide nanooctahedra as difunctional counter electrodes for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 6331-6336	13	8
92	Hydrothermal transformation of dried grass into graphitic carbon-based high performance electrocatalyst for oxygen reduction reaction. <i>Small</i> , <b>2014</b> , 10, 3371-8	11	122
91	A self-sponsored doping approach for controllable synthesis of S and N co-doped trimodal-porous structured graphitic carbon electrocatalysts. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3720-3726	35.4	180
90	Cluster size effects of platinum oxide as active sites in hydrogen evolution reactions. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 12377-80	4.8	26
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85	Synthesis of well-defined functional crystals by high temperature gas-phase reactions. <i>Science Bulletin</i> , <b>2014</b> , 59, 2135-2143		4
84	Determination of Iodide via Direct Fluorescence Quenching at Nitrogen-Doped Carbon Quantum Dot Fluorophores. <i>Environmental Science and Technology Letters</i> , <b>2014</b> , 1, 87-91	11	65
83	Geometric structure of rutile titanium dioxide (111) surfaces. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	17
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81	Pores on TiO <sub>2</sub> nanosheets with exposed high active facets. <i>Materials Letters</i> , <b>2014</b> , 123, 254-257	3.3	2
80	Enhancing photocatalytic activity of Sn doped TiO <sub>2</sub> dominated with {1 0 5} facets. <i>Catalysis Today</i> , <b>2014</b> , 225, 18-23	5.3	21
79	Highly electrocatalytic activity of RuO <sub>2</sub> nanocrystals for triiodide reduction in dye-sensitized solar cells. <i>Small</i> , <b>2014</b> , 10, 484-92, 483	11	65
78	Bottom-Up Enhancement of g-C <sub>3</sub> N <sub>4</sub> Photocatalytic H <sub>2</sub> Evolution Utilising Disorder Intermolecular Interactions of Precursor. <i>International Journal of Photoenergy</i> , <b>2014</b> , 2014, 1-8	2.1	7
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11	Self-Construction of Hollow SnO <sub>2</sub> Octahedra Based on Two-Dimensional Aggregation of Nanocrystallites. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 6056-6059	3.6	78
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2	Self-Organized Co <sub>3</sub> O <sub>4</sub> -SrCO <sub>3</sub> Percolative Composites Enabling Nanosized Hole Transport Pathways for Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2106121	15.6	6
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