

# Hua-Gui Yang

## List of Publications by Citations

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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	Anatase TiO <sub>2</sub> single crystals with a large percentage of reactive facets. <i>Nature</i> , <b>2008</b> , 453, 638-41	50.4	3391
248	Homogeneously dispersed multimetal oxygen-evolving catalysts. <i>Science</i> , <b>2016</b> , 352, 333-7	33.3	1459
247	Solvothermal synthesis and photoreactivity of anatase TiO <sub>2</sub> nanosheets with dominant {001} facets. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 4078-83	16.4	1149
246	Titania-based photocatalysts: crystal growth, doping and heterostructuring. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 831-843		953
245	Preparation of Hollow Anatase TiO <sub>2</sub> Nanospheres via Ostwald Ripening. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 3492-3495	3.4	887
244	Titanium dioxide crystals with tailored facets. <i>Chemical Reviews</i> , <b>2014</b> , 114, 9559-612	68.1	796
243	Visible light responsive nitrogen doped anatase TiO <sub>2</sub> sheets with dominant {001} facets derived from TiN. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 12868-9	16.4	544
242	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
241	Self-construction of hollow SnO <sub>2</sub> octahedra based on two-dimensional aggregation of nanocrystallites. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 5930-3	16.4	413
240	Nanosized anatase TiO <sub>2</sub> single crystals for enhanced photocatalytic activity. <i>Chemical Communications</i> , <b>2010</b> , 46, 755-7	5.8	375
239	Functionalization of perovskite thin films with moisture-tolerant molecules. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	369
238	Enhanced Photoactivity of Oxygen-Deficient Anatase TiO <sub>2</sub> Sheets with Dominant {001} Facets. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 21784-21788	3.8	341
237	Rational screening low-cost counter electrodes for dye-sensitized solar cells. <i>Nature Communications</i> , <b>2013</b> , 4, 1583	17.4	340
236	Recent progress in biomedical applications of titanium dioxide. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 4844-58	3.6	334
235	Top-down fabrication of Fe <sub>2</sub> O <sub>3</sub> single-crystal nanodiscs and microparticles with tunable porosity for largely improved lithium storage properties. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 13162-4	16.4	333
234	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
233	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

232	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
231	Synthesis of high-reactive facets dominated anatase TiO <sub>2</sub> . <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 7052		223
230	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
229	On the Unusual Properties of Anatase TiO <sub>2</sub> Exposed by Highly Reactive Facets. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 725-734	6.4	211
228	Higher charge/discharge rates of lithium-ions across engineered TiO <sub>2</sub> surfaces leads to enhanced battery performance. <i>Chemical Communications</i> , <b>2010</b> , 46, 6129-31	5.8	197
227	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
226	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
225	Ultra-thin anatase TiO <sub>2</sub> nanosheets dominated with {001} facets: thickness-controlled synthesis, growth mechanism and water-splitting properties. <i>CrystEngComm</i> , <b>2011</b> , 13, 1378-1383	3.3	179
224	Creation of intestine-like interior space for metal-oxide nanostructures with a quasi-reverse emulsion. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 5206-9	16.4	177
223	Fabrication and Size-Selective Bioseparation of Magnetic Silica Nanospheres with Highly Ordered Periodic Mesostructure. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3203-3212	15.6	170
222	Solvothermally controllable synthesis of anatase TiO <sub>2</sub> nanocrystals with dominant {001} facets and enhanced photocatalytic activity. <i>CrystEngComm</i> , <b>2010</b> , 12, 2219	3.3	169
221	Unidirectional suppression of hydrogen oxidation on oxidized platinum clusters. <i>Nature Communications</i> , <b>2013</b> , 4, 2500	17.4	162
220	Synthetic architectures of TiO <sub>2</sub> /H <sub>2</sub> Ti <sub>5</sub> O <sub>11</sub> .H <sub>2</sub> O, ZnO/H <sub>2</sub> Ti <sub>5</sub> O <sub>11</sub> .H <sub>2</sub> O, ZnO/TiO <sub>2</sub> /H <sub>2</sub> Ti <sub>5</sub> O <sub>11</sub> .H <sub>2</sub> O, and ZnO/TiO <sub>2</sub> nanocomposites. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 270-8	16.4	162
219	Fundamental Understanding of Photocurrent Hysteresis in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803017	21.8	148
218	Hydrothermal Stability of {001} Faceted Anatase TiO <sub>2</sub> . <i>Chemistry of Materials</i> , <b>2011</b> , 23, 3486-3494	9.6	146
217	Anatase TiO <sub>2</sub> crystals with exposed high-index facets. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 3764-8	16.4	142
216	Synthesis of micro-sized titanium dioxide nanosheets wholly exposed with high-energy {001} and {100} facets. <i>Chemical Communications</i> , <b>2011</b> , 47, 4400-2	5.8	141
215	Inorganic photocatalysts for overall water splitting. <i>Chemistry - an Asian Journal</i> , <b>2012</b> , 7, 642-57	4.5	139

214	Hierarchical structures of single-crystalline anatase TiO <sub>2</sub> nanosheets dominated by {001} facets. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 1423-7	4.8	135
213	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
212	Facet-dependent catalytic activity of platinum nanocrystals for triiodide reduction in dye-sensitized solar cells. <i>Scientific Reports</i> , <b>2013</b> , 3, 1836	4.9	133
211	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
210	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
209	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
208	Fabrication of uniform anatase TiO <sub>2</sub> particles exposed by {001} facets. <i>Chemical Communications</i> , <b>2010</b> , 46, 6608-10	5.8	128
207	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
206	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
205	From titanium oxydifluoride (TiOF <sub>2</sub> ) to titania (TiO <sub>2</sub> ): phase transition and non-metal doping with enhanced photocatalytic hydrogen (H <sub>2</sub> ) evolution properties. <i>Chemical Communications</i> , <b>2011</b> , 47, 6138-40	5.8	107
204	Low-cost SnS(x) counter electrodes for dye-sensitized solar cells. <i>Chemical Communications</i> , <b>2013</b> , 49, 5793-5	5.8	99
203	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
202	Rheological Behavior of Titanium Dioxide Suspensions. <i>Journal of Colloid and Interface Science</i> , <b>2001</b> , 236, 96-103	9.3	93
201	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
200	Yolk@shell anatase TiO <sub>2</sub> hierarchical microspheres with exposed {001} facets for high-performance dye sensitized solar cells. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 22082		92
199	Hydrogen Incorporation and Storage in Well-Defined Nanocrystals of Anatase Titanium Dioxide. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 25590-25594	3.8	92
198	Electrochemical etching of $\gamma$ -cobalt hydroxide for improvement of oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 9578-9584	13	91
197	Surface hydrogen bonding can enhance photocatalytic H <sub>2</sub> evolution efficiency. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 14089	13	89

196	Mo activated multimetal oxygen-evolving catalysts. <i>Chemical Science</i> , <b>2017</b> , 8, 3484-3488	9.4	88
195	Active sites on hydrogen evolution photocatalyst. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 15258	13	81
194	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
193	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
192	Hydrogen-treated commercial WO <sub>3</sub> as an efficient electrocatalyst for triiodide reduction in dye-sensitized solar cells. <i>Chemical Communications</i> , <b>2013</b> , 49, 5945-7	5.8	78
191	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
190	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
189	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
188	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
187	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
186	Titania single crystals with a curved surface. <i>Nature Communications</i> , <b>2014</b> , 5, 5355	17.4	73
185	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
184	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
183	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
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	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
180	Highly electrocatalytic activity of RuO <sub>4</sub> nanocrystals for triiodide reduction in dye-sensitized solar cells. <i>Small</i> , <b>2014</b> , 10, 484-92, 483	11	65
179	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

178	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
177	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
176	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
175	The size and valence state effect of Pt on photocatalytic H <sub>2</sub> evolution over platinumized TiO <sub>2</sub> photocatalyst. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 1237-1242	6.7	60
174	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
173	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
172	Fluorine-doped porous single-crystal rutile TiO <sub>2</sub> nanorods for enhancing photoelectrochemical water splitting. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 11439-44	4.8	55
171	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
170	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
169	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
168	Control of Nucleation in Solution Growth of Anatase TiO <sub>2</sub> on Glass Substrate. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 12244-12255	3.4	54
167	Vapor-phase hydrothermal transformation of HTiOF <sub>3</sub> intermediates into {001} faceted anatase single-crystalline nanosheets. <i>Small</i> , <b>2012</b> , 8, 3664-73	11	51
166	Accelerating Neutral Hydrogen Evolution with Tungsten Modulated Amorphous Metal Hydroxides. <i>ACS Catalysis</i> , <b>2018</b> , 8, 5200-5205	13.1	49
165	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
164	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
163	High-yield synthesis and magnetic properties of ZnFe <sub>2</sub> O <sub>4</sub> single crystal nanocubes in aqueous solution. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 550, 348-352	5.7	46
162	TiO <sub>2</sub> -Coated Ultrathin SnO <sub>2</sub> Nanosheets Used as Photoanodes for Dye-Sensitized Solar Cells with High Efficiency. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 4247-4253	3.9	46
161	Nitrogen-Stabilized Low-Valent Ni Motifs for Efficient CO <sub>2</sub> Electrocatalysis. <i>ACS Catalysis</i> , <b>2020</b> , 10, 10863-10934	10.93	45

160	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
159	Surface-functionalized perovskite films for stable photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 910-913	13	44
158	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
157	Operando NMR spectroscopic analysis of proton transfer in heterogeneous photocatalytic reactions. <i>Nature Communications</i> , <b>2016</b> , 7, 11918	17.4	43
156	Cu-Cu <sub>2</sub> O-TiO <sub>2</sub> nanojunction systems with an unusual electron-hole transportation pathway and enhanced photocatalytic properties. <i>Chemistry - an Asian Journal</i> , <b>2013</b> , 8, 1265-70	4.5	43
155	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
154	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
153	On the synergistic effect of hydrohalic acids in the shape-controlled synthesis of anatase TiO <sub>2</sub> single crystals. <i>CrystEngComm</i> , <b>2013</b> , 15, 3252-3255	3.3	41
152	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
151	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
150	Titania polymorphs derived from crystalline titanium diboride. <i>CrystEngComm</i> , <b>2009</b> , 11, 2677	3.3	39
149	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
148	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
147	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
146	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
145	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
144	Activation strategies of water-splitting electrocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 10096-10129	13	35
143	A sulfur-assisted strategy to decorate MWCNTs with highly dispersed Pt nanoparticles for counter electrode in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 1982-1986	13	35

142	Rutile TiO <sub>2</sub> films with 100% exposed pyramid-shaped (111) surface: photoelectron transport properties under UV and visible light irradiation. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2646	13	35
141	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
140	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
139	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
138	Fabrication of regular ZnO/TiO <sub>2</sub> heterojunctions with enhanced photocatalytic properties. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 8393-6	4.8	34
137	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
136	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
135	Controllable nanocarving of anatase TiO <sub>2</sub> single crystals with reactive {001} facets. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 6615-9	4.8	33
134	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
133	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
132	Ultrathin SnO <sub>2</sub> scaffolds for TiO <sub>2</sub> -based heterojunction photoanodes in dye-sensitized solar cells: oriented charge transport and improved light scattering. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 9366-70	4.8	29
131	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
130	A highly crystalline Nb <sub>3</sub> O <sub>7</sub> F nanostructured photoelectrode: fabrication and photosensitisation. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 6563	13	28
129	A novel strategy to prepare a Pt/SnO <sub>2</sub> nanocomposite as a highly efficient counter electrode for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 17253-17257	13	27
128	Turning indium oxide into a superior electrocatalyst: deterministic heteroatoms. <i>Scientific Reports</i> , <b>2013</b> , 3, 3109	4.9	27
127	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
126	Creation of Intestine-like Interior Space for Metal-Oxide Nanostructures with a Quasi-Reverse Emulsion. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 5318-5321	3.6	26
125	A free radical assisted strategy for preparing ultra-small Pt decorated CNTs as a highly efficient counter electrode for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 614-619	13	25



124	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
123	Nature of visible-light responsive fluorinated titanium dioxides. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 12948	13	24
122	Ti(0.89)Si(0.11)O <sub>2</sub> single crystals bound by high-index {201} facets showing enhanced visible-light photocatalytic hydrogen evolution. <i>Chemical Communications</i> , <b>2013</b> , 49, 2016-8	5.8	24
121	Brüstled 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
120	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
119	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
118	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
117	Deepening the Valance Band Edges of NiO <sub>x</sub> 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
116	MgO@Ti <sub>2</sub> O catalysts templated by a PDMS/PDMSO comb-like copolymer for transesterification of vegetable oil to biodiesel. <i>Fuel</i> , <b>2016</b> , 165, 215-223	7.1	23
115	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
114	Quantitative analysis of the PtO structure during photocatalytic water splitting by operando XAFS. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 20631-20634	13	22
113	Lattice Strain Directed Synthesis of Anatase TiO <sub>2</sub> Single-Crystal Microplatelet Arrays on Bi <sub>2</sub> MoO <sub>3</sub> (010) Template. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 819-823	3.4	22
112	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
111	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
110	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
109	Assembly of ultrathin PbBiO <sub>2</sub> Br nanosheets with enhanced visible light photocatalytic properties. <i>RSC Advances</i> , <b>2013</b> , 3, 10687	3.7	21
108	Anatase TiO <sub>2</sub> Crystals with Exposed High-Index Facets. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 3848-3852	3.6	21
107	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

106	The origin of enhanced photocatalytic activities of hydrogenated TiO nanoparticles. <i>Dalton Transactions</i> , <b>2017</b> , 46, 10694-10699	4.3	19
105	Disordered Co <sub>1.28</sub> Mn <sub>1.71</sub> O <sub>4</sub> as a visible-light-responsive photocatalyst for hydrogen evolution. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 4123-7	4.8	19
104	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
103	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
102	Ceria foam with atomically thin single-crystal walls. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 3611-5	16.4	18
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100	NiCoO 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
99	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
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93	Epitaxial halide perovskite-based materials for photoelectric energy conversion. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 127-157	35.4	17
92	La <sub>1-x</sub> Ca <sub>x</sub> Mn <sub>1-x</sub> Al <sub>x</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
91	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
90	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
89	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

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87	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
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80	Modulating MAPbI <sub>3</sub> 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
79	Metallic Ni P/Ni Co-Catalyst To Enhance Photocatalytic Hydrogen Evolution. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 16734-16737	4.8	12
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77	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
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44	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
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22	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
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20	Stable Isolated Metal Atoms as Active Sites for Photocatalytic Hydrogen Evolution. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 2088-2088	4.8	2
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17	Turning commercial transition-metal oxides into efficient electrocatalysts via facile hydrogen treatment. <i>RSC Advances</i> , <b>2014</b> , 4, 12534	3.7	1

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11	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
10	Boosting Photocatalytic Water Oxidation Over Bifunctional Rh <sup>0</sup> -Rh <sup>3+</sup> Sites. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 22943	3.6	0
9	Molecularly Dispersed Cobalt Phthalocyanine Mediates Selective and Durable CO <sub>2</sub> Reduction in a Membrane Flow Cell (Adv. Funct. Mater. 11/2022). <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2270070	15.6	0
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7	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
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2	Innenrücktitelbild: Boosting Photocatalytic Water Oxidation Over Bifunctional Rh <sup>0</sup> -Rh <sup>3+</sup> Sites (Angew. Chem. 42/2021). <i>Angewandte Chemie</i> , <b>2021</b> , 133, 23211	3.6	
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