

# Takashi Hisatomi

## List of Publications by Citations

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183  
papers

16,124  
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19,150  
ext. citations

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L-index

#	Paper	IF	Citations
183	Recent advances in semiconductors for photocatalytic and photoelectrochemical water splitting. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 7520-35	58.5	3037
182	Scalable water splitting on particulate photocatalyst sheets with a solar-to-hydrogen energy conversion efficiency exceeding 1. <i>Nature Materials</i> , <b>2016</b> , 15, 611-5	27	979
181	Reaction systems for solar hydrogen production via water splitting with particulate semiconductor photocatalysts. <i>Nature Catalysis</i> , <b>2019</b> , 2, 387-399	36.5	539
180	Photocatalytic water splitting with a quantum efficiency of almost unity. <i>Nature</i> , <b>2020</b> , 581, 411-414	50.4	533
179	Surface Modification of CoO(x) Loaded BiVO <sub>4</sub> Photoanodes with Ultrathin p-Type NiO Layers for Improved Solar Water Oxidation. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 5053-60	16.4	436
178	Highly efficient water splitting by a dual-absorber tandem cell. <i>Nature Photonics</i> , <b>2012</b> , 6, 824-828	33.9	398
177	Dynamics of photogenerated holes in surface modified $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> photoanodes for solar water splitting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 15640-5	11.5	362
176	Ultrathin films on copper(I) oxide water splitting photocathodes: a study on performance and stability. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 8673	35.4	354
175	Photocatalytic overall water splitting promoted by two different cocatalysts for hydrogen and oxygen evolution under visible light. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 4096-9	16.4	325
174	A Particulate Photocatalyst Water-Splitting Panel for Large-Scale Solar Hydrogen Generation. <i>Joule</i> , <b>2018</b> , 2, 509-520	27.8	307
173	Overall water splitting by Ta <sub>3</sub> N <sub>5</sub> nanorod single crystals grown on the edges of KTaO <sub>3</sub> particles. <i>Nature Catalysis</i> , <b>2018</b> , 1, 756-763	36.5	259
172	Photocatalytic water splitting using modified GaN:ZnO solid solution under visible light: long-time operation and regeneration of activity. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 8254-9	16.4	257
171	Enhancement in the performance of ultrathin hematite photoanode for water splitting by an oxide underlayer. <i>Advanced Materials</i> , <b>2012</b> , 24, 2699-702	24	257
170	Particle suspension reactors and materials for solar-driven water splitting. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2825-2850	35.4	256
169	Particulate Photocatalyst Sheets Based on Carbon Conductor Layer for Efficient Z-Scheme Pure-Water Splitting at Ambient Pressure. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 1675-1683	16.4	252
168	Cathodic shift in onset potential of solar oxygen evolution on hematite by 13-group oxide overlayers. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 2512	35.4	243
167	Core/Shell photocatalyst with spatially separated co-catalysts for efficient reduction and oxidation of water. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 11252-6	16.4	225

166	Oxysulfide photocatalyst for visible-light-driven overall water splitting. <i>Nature Materials</i> , <b>2019</b> , 18, 827-832	83.2	222
165	Ultrastable low-bias water splitting photoanodes via photocorrosion inhibition and in situ catalyst regeneration. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	206
164	Efficient Visible-Light-Driven Z-Scheme Overall Water Splitting Using a MgTa <sub>2</sub> O(6-x)N(y)/TaON Heterostructure Photocatalyst for H <sub>2</sub> Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 8498-501	16.4	205
163	Core/Shell Structured La- and Rh-Codoped SrTiO <sub>3</sub> as a Hydrogen Evolution Photocatalyst in Z-Scheme Overall Water Splitting under Visible Light Irradiation. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4144-4150	8.6	197
162	Nanostructured WO <sub>3</sub> /BiVO <sub>4</sub> photoanodes for efficient photoelectrochemical water splitting. <i>Small</i> , <b>2014</b> , 10, 3692-9	11	191
161	Synthesis and photocatalytic activity of perovskite niobium oxynitrides with wide visible-light absorption bands. <i>ChemSusChem</i> , <b>2011</b> , 4, 74-8	8.3	189
160	Enhanced water oxidation on Ta <sub>3</sub> N <sub>5</sub> photocatalysts by modification with alkaline metal salts. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 19993-6	16.4	186
159	Positive onset potential and stability of Cu <sub>2</sub> O-based photocathodes in water splitting by atomic layer deposition of a Ga <sub>2</sub> O <sub>3</sub> buffer layer. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1493-1500	35.4	170
158	Photocatalytic Water-Splitting Reaction from Catalytic and Kinetic Perspectives. <i>Catalysis Letters</i> , <b>2015</b> , 145, 95-108	2.8	165
157	Flux-mediated doping of SrTiO <sub>3</sub> photocatalysts for efficient overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3027-3033	13	152
156	Enhancement of solar hydrogen evolution from water by surface modification with CdS and TiO <sub>2</sub> on porous CuInS <sub>2</sub> photocathodes prepared by an electrodeposition-sulfurization method. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 11808-12	16.4	151
155	Mg-Zr Cosubstituted Ta <sub>3</sub> N <sub>5</sub> Photoanode for Lower-Onset-Potential Solar-Driven Photoelectrochemical Water Splitting. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 12780-3	16.4	147
154	Photoelectrochemical oxidation of water using BaTaO <sub>2</sub> N photoanodes prepared by particle transfer method. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 2227-30	16.4	140
153	H <sub>2</sub> Evolution from Water on Modified Cu <sub>2</sub> ZnSnS <sub>4</sub> Photoelectrode under Solar Light. <i>Applied Physics Express</i> , <b>2010</b> , 3, 101202	2.4	135
152	Photocatalytic solar hydrogen production from water on a 100-m scale. <i>Nature</i> , <b>2021</b> , 598, 304-307	50.4	134
151	Photocatalytic Overall Water Splitting Promoted by Two Different Cocatalysts for Hydrogen and Oxygen Evolution under Visible Light. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 4190-4193	3.6	127
150	Efficient Photocatalytic Water Splitting Using Al-Doped SrTiO <sub>3</sub> Coloaded with Molybdenum Oxide and Rhodium-Chromium Oxide. <i>ACS Catalysis</i> , <b>2018</b> , 8, 2782-2788	13.1	126
149	Aspects of the Water Splitting Mechanism on (Ga <sub>1-x</sub> Zn <sub>x</sub> )(N <sub>1-x</sub> O <sub>x</sub> ) Photocatalyst Modified with Rh <sub>2</sub> CrO <sub>3</sub> Cocatalyst. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 21458-21466	3.8	119

148	Highly Active GaN-Stabilized Ta N Thin-Film Photoanode for Solar Water Oxidation. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 4739-4743	16.4	110
147	Transparent, conducting Nb:SnO <sub>2</sub> for host-guest photoelectrochemistry. <i>Nano Letters</i> , <b>2012</b> , 12, 5431-5	11.5	110
146	Enhancing photocatalytic activity of LaTiO <sub>2</sub> N by removal of surface reconstruction layer. <i>Nano Letters</i> , <b>2014</b> , 14, 1038-41	11.5	109
145	Photocatalytic oxygen evolution using BaNbO <sub>2</sub> N modified with cobalt oxide under photoexcitation up to 740 nm. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3595	35.4	108
144	A redox-mediator-free solar-driven Z-scheme water-splitting system consisting of modified Ta <sub>3</sub> N <sub>5</sub> as an oxygen-evolution photocatalyst. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 7480-6	4.8	103
143	On the Solar to Hydrogen Conversion Efficiency of Photoelectrodes for Water Splitting. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 3330-4	6.4	97
142	An Al-doped SrTiO photocatalyst maintaining sunlight-driven overall water splitting activity for over 1000h of constant illumination. <i>Chemical Science</i> , <b>2019</b> , 10, 3196-3201	9.4	96
141	Z-scheme water splitting using particulate semiconductors immobilized onto metal layers for efficient electron relay. <i>Journal of Catalysis</i> , <b>2015</b> , 328, 308-315	7.3	91
140	Efficient Redox-Mediator-Free Z-Scheme Water Splitting Employing Oxysulfide Photocatalysts under Visible Light. <i>ACS Catalysis</i> , <b>2018</b> , 8, 1690-1696	13.1	90
139	A Ga <sub>2</sub> O <sub>3</sub> underlayer as an isomorphic template for ultrathin hematite films toward efficient photoelectrochemical water splitting. <i>Faraday Discussions</i> , <b>2012</b> , 155, 223-32; discussion 297-308	3.6	90
138	Visible Light-Driven Z-Scheme Water Splitting Using Oxysulfide H Evolution Photocatalysts. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 3892-3896	6.4	78
137	Enhancement of Photocatalytic Water Oxidation by the Morphological Control of LaTiO <sub>2</sub> N and Cobalt Oxide Catalysts. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 16344-16351	3.8	69
136	Introductory lecture: sunlight-driven water splitting and carbon dioxide reduction by heterogeneous semiconductor systems as key processes in artificial photosynthesis. <i>Faraday Discussions</i> , <b>2017</b> , 198, 11-35	3.6	68
135	Photocatalyst Sheets Composed of Particulate LaMg <sub>1/3</sub> Ta <sub>2/3</sub> O <sub>2</sub> N and Mo-Doped BiVO <sub>4</sub> for Z-Scheme Water Splitting under Visible Light. <i>ACS Catalysis</i> , <b>2016</b> , 6, 7188-7196	13.1	68
134	Trapped state sensitive kinetics in LaTiO <sub>2</sub> N solid photocatalyst with and without cocatalyst loading. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 17324-31	16.4	63
133	Preparation of Crystallized Mesoporous Ta <sub>3</sub> N <sub>5</sub> Assisted by Chemical Vapor Deposition of Tetramethyl Orthosilicate. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 3854-3861	9.6	63
132	Efficient Visible-Light-Driven Z-Scheme Overall Water Splitting Using a MgTa <sub>2</sub> O <sub>6</sub> Ny /TaON Heterostructure Photocatalyst for H <sub>2</sub> Evolution. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 8618-8621	3.6	56
131	Kinetic Assessment and Numerical Modeling of Photocatalytic Water Splitting toward Efficient Solar Hydrogen Production. <i>Bulletin of the Chemical Society of Japan</i> , <b>2012</b> , 85, 647-655	5.1	56

130	Synthesis of Nanostructured BaTaO <sub>2</sub> N Thin Films as Photoanodes for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 15758-15764	3.8	55
129	Photoelectrochemical Water Splitting on Particulate ANbO <sub>2</sub> N (A = Ba, Sr) Photoanodes Prepared from Perovskite-Type ANbO <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6869-6876	9.6	53
128	Visible-Light-Driven Photocatalytic Water Splitting: Recent Progress and Challenges. <i>Trends in Chemistry</i> , <b>2020</b> , 2, 813-824	14.8	53
127	Morphology-sensitive trapping states of photogenerated charge carriers on SrTiO <sub>3</sub> particles studied by time-resolved visible to Mid-IR absorption spectroscopy: The effects of molten salt flux treatments. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2015</b> , 313, 168-175	4.7	51
126	A titanium-based oxysulfide photocatalyst: La <sub>5</sub> Ti <sub>2</sub> MS <sub>5</sub> O <sub>7</sub> (M = Ag, Cu) for water reduction and oxidation. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 15475-81	3.6	51
125	Improving the photoelectrochemical activity of La <sub>5</sub> Ti <sub>2</sub> CuS <sub>5</sub> O <sub>7</sub> for hydrogen evolution by particle transfer and doping. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2239-2242	35.4	50
124	Transparent Ta N Photoanodes for Efficient Oxygen Evolution toward the Development of Tandem Cells. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 2300-2304	16.4	48
123	Photoreduced Graphene Oxide as a Conductive Binder to Improve the Water Splitting Activity of Photocatalyst Sheets. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7011-7019	15.6	47
122	Isotopic and kinetic assessment of photocatalytic water splitting on Zn-added Ga <sub>2</sub> O <sub>3</sub> photocatalyst loaded with Rh <sub>2</sub> CryO <sub>3</sub> cocatalyst. <i>Chemical Physics Letters</i> , <b>2010</b> , 486, 144-146	2.5	47
121	Efficient Solar-Driven Water Oxidation over Perovskite-Type BaNbO <sub>2</sub> N Photoanodes Absorbing Visible Light up to 740 nm. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800094	21.8	47
120	Metal selenide photocatalysts for visible-light-driven Z-scheme pure water splitting. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7415-7422	13	46
119	Effect of Hydrogen and Oxygen Evolution Cocatalysts on Photocatalytic Activity of GaN:ZnO. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 767-772	2.3	46
118	Sequential cocatalyst decoration on BaTaON towards highly-active Z-scheme water splitting. <i>Nature Communications</i> , <b>2021</b> , 12, 1005	17.4	46
117	Boosting photocatalytic overall water splitting by Co doping into MnO nanoparticles as oxygen evolution cocatalysts. <i>Nanoscale</i> , <b>2018</b> , 10, 10420-10427	7.7	45
116	La <sub>5</sub> Ti <sub>2</sub> Cu <sub>1-x</sub> Ag <sub>x</sub> S <sub>5</sub> O <sub>7</sub> photocathodes operating at positive potentials during photoelectrochemical hydrogen evolution under irradiation of up to 710 nm. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3354-3362	35.4	44
115	Photoelectrochemical properties of SrNbO <sub>2</sub> N photoanodes for water oxidation fabricated by the particle transfer method. <i>Faraday Discussions</i> , <b>2014</b> , 176, 213-23	3.6	44
114	The effects of starting materials in the synthesis of (Ga <sub>1-x</sub> Zn <sub>x</sub> )(N <sub>1-x</sub> O <sub>x</sub> ) solid solution on its photocatalytic activity for overall water splitting under visible light. <i>ChemSusChem</i> , <b>2009</b> , 2, 336-43	8.3	44
113	Photocatalytic property of metal ion added SrTiO <sub>3</sub> to Overall H <sub>2</sub> O splitting. <i>Applied Catalysis A: General</i> , <b>2016</b> , 521, 227-232	5.1	43

112	Effect of post-treatments on the photocatalytic activity of Sm <sub>2</sub> Ti <sub>2</sub> S <sub>2</sub> O <sub>5</sub> for the hydrogen evolution reaction. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 12051-6	3.6	41
111	Printable Photocatalyst Sheets Incorporating a Transparent Conductive Mediator for Z-Scheme Water Splitting. <i>Joule</i> , <b>2018</b> , 2, 2667-2680	27.8	41
110	Efficiency Accreditation and Testing Protocols for Particulate Photocatalysts toward Solar Fuel Production. <i>Joule</i> , <b>2021</b> , 5, 344-359	27.8	39
109	Overall water splitting by photoelectrochemical cells consisting of (ZnSe)(CuInGaSe) photocathodes and BiVO photoanodes. <i>Chemical Communications</i> , <b>2017</b> , 53, 11674-11677	5.8	38
108	A SrTiO <sub>3</sub> photoanode prepared by the particle transfer method for oxygen evolution from water with high quantum efficiencies. <i>Chemical Communications</i> , <b>2016</b> , 52, 5011-4	5.8	38
107	Effects of flux synthesis on SrNbO <sub>2</sub> N particles for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7658-7664	13	37
106	Revealing the role of the Rh valence state, La doping level and Ru cocatalyst in determining the H <sub>2</sub> evolution efficiency in doped SrTiO <sub>3</sub> photocatalysts. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 208-218	5.8	36
105	Bulky crystalline BiVO <sub>4</sub> thin films for efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 9858-9864	13	36
104	Origin of the overall water splitting activity of TaN revealed by ultrafast transient absorption spectroscopy. <i>Chemical Science</i> , <b>2019</b> , 10, 5353-5362	9.4	35
103	The effects of preparation conditions for a BaNbO <sub>2</sub> N photocatalyst on its physical properties. <i>ChemSusChem</i> , <b>2014</b> , 7, 2016-21	8.3	35
102	Perovskite-Type LaTiO <sub>2</sub> N Oxynitrides for Solar Water Splitting: Influence of the Synthesis Conditions. <i>Energy Procedia</i> , <b>2012</b> , 22, 61-66	2.3	35
101	Particulate photocatalyst sheets for Z-scheme water splitting: advantages over powder suspension and photoelectrochemical systems and future challenges. <i>Faraday Discussions</i> , <b>2017</b> , 197, 491-504	3.6	34
100	Structural and photocatalytic properties of perovskite-type (La,Ca)Ti(O,N) <sub>3</sub> prepared from A-site deficient precursors. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 17906		34
99	Highly Efficient Water Oxidation Photoanode Made of Surface Modified LaTiO N Particles. <i>Small</i> , <b>2016</b> , 12, 5468-5476	11	33
98	Site-selective photodeposition of Pt on a particulate Sc-La <sub>5</sub> Ti <sub>2</sub> Cu <sub>5</sub> O <sub>7</sub> photocathode: evidence for one-dimensional charge transfer. <i>Chemical Communications</i> , <b>2015</b> , 51, 4302-5	5.8	33
97	Core-Shell-Structured LaTaON Transformed from LaKNaTaO Plates for Enhanced Photocatalytic H Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 10666-10670	16.4	32
96	Construction of Spatial Charge Separation Facets on BaTaON Crystals by Flux Growth Approach for Visible-Light-Driven H Production. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 22264-22271	9.5	31
95	Understanding the visible-light photocatalytic activity of GaN:ZnO solid solution: the role of Rh Cr O cocatalyst and charge carrier lifetimes over tens of seconds. <i>Chemical Science</i> , <b>2018</b> , 9, 7546-7555	9.4	30

94	Photoanodic and photocathodic behaviour of LaTiCuSO electrodes in the water splitting reaction. <i>Chemical Science</i> , <b>2015</b> , 6, 4513-4518	9.4	29
93	Effective Driving of Ag-Loaded and Al-Doped SrTiO <sub>3</sub> under Irradiation at λ = 300 nm for the Photocatalytic Conversion of CO <sub>2</sub> by H <sub>2</sub> O. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 1468-1475	6.1	29
92	Surface Modifications of (ZnSe)(CuGaSe) to Promote Photocatalytic Z-Scheme Overall Water Splitting. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 10633-10641	16.4	29
91	Application of LaMg <sub>1/3</sub> Ta <sub>2/3</sub> O <sub>2</sub> N as a hydrogen evolution photocatalyst of a photocatalyst sheet for Z-scheme water splitting. <i>Applied Catalysis A: General</i> , <b>2016</b> , 521, 26-33	5.1	28
90	Fabrication of photocatalyst panels and the factors determining their activity for water splitting. <i>Catalysis Science and Technology</i> , <b>2014</b> , 4, 325-328	5.5	28
89	Rational Interpretation of Correlated Kinetics of Mobile and Trapped Charge Carriers: Analysis of Ultrafast Carrier Dynamics in BiVO <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 19044-19052	3.8	28
88	Physicochemical properties and photocatalytic H <sub>2</sub> evolution activity of Rh-doped La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> prepared by molten salt synthesis. <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 2098	5.5	28
87	Kinetics of Distance-Dependent Recombination between Geminate Charge Carriers by Diffusion under Coulomb Interaction. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 5364-5373	3.8	25
86	Zinc and Titanium Spinel Oxynitride (Zn <sub>x</sub> Ti <sub>1-x</sub> O <sub>y</sub> N <sub>z</sub> ) as a d <sup>0</sup> Complex Photocatalyst with Visible Light Activity. <i>Chemistry Letters</i> , <b>2007</b> , 36, 558-559	1.7	25
85	Linking in situ charge accumulation to electronic structure in doped SrTiO reveals design principles for hydrogen-evolving photocatalysts. <i>Nature Materials</i> , <b>2021</b> , 20, 511-517	27	24
84	Effect of particle size of La <sub>5</sub> Ti <sub>2</sub> Cu <sub>5</sub> O <sub>7</sub> on photoelectrochemical properties in solar hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 4848-4854	13	23
83	Solar-Driven Water Splitting over a BaTaO <sub>2</sub> N Photoanode Enhanced by Annealing in Argon. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5777-5784	6.1	23
82	Progress in the demonstration and understanding of water splitting using particulate photocatalysts. <i>Current Opinion in Electrochemistry</i> , <b>2017</b> , 2, 148-154	7.2	22
81	Highly Active GaN-Stabilized Ta <sub>3</sub> N <sub>5</sub> Thin-Film Photoanode for Solar Water Oxidation. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 4817-4821	3.6	22
80	Sunlight-Driven Overall Water Splitting by the Combination of Surface-Modified La <sub>5</sub> Ti <sub>2</sub> Cu <sub>0.9</sub> Ag <sub>0.1</sub> S <sub>5</sub> O <sub>7</sub> and BaTaO <sub>2</sub> N Photoelectrodes. <i>ChemPhotoChem</i> , <b>2017</b> , 1, 167-172	3.3	21
79	Thin film transfer for the fabrication of tantalum nitride photoelectrodes with controllable layered structures for water splitting. <i>Chemical Science</i> , <b>2016</b> , 7, 5821-5826	9.4	21
78	Crystal Structure, Electronic Structure, and Photocatalytic Activity of Oxysulfides: La <sub>2</sub> Ta <sub>2</sub> ZrS <sub>2</sub> O <sub>8</sub> , La <sub>2</sub> Ta <sub>2</sub> TiS <sub>2</sub> O <sub>8</sub> , and La <sub>2</sub> Nb <sub>2</sub> TiS <sub>2</sub> O <sub>8</sub> . <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 3674-9	5.1	20
77	Efficient photocatalytic oxygen evolution using BaTaO <sub>2</sub> N obtained from nitridation of perovskite-type oxide. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1127-1130	13	20

76	Visible-Light-Driven Photocatalytic Z-Scheme Overall Water Splitting in La Ti AgS O -based Powder-Suspension System. <i>ChemSusChem</i> , <b>2019</b> , 12, 1906-1910	8.3	20
75	The effects of annealing barium niobium oxynitride in argon on photoelectrochemical water oxidation activity. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 493-502	13	19
74	CdTe-Based Photoanode for Oxygen Evolution from Water under Simulated Sunlight. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 5712-5717	6.4	19
73	Minimizing energy demand and environmental impact for sustainable NH <sub>3</sub> and H <sub>2</sub> O <sub>2</sub> production—A perspective on contributions from thermal, electro-, and photo-catalysis. <i>Applied Catalysis A: General</i> , <b>2020</b> , 594, 117419	5.1	18
72	Investigation of cocatalysts on silver-modified Sm <sub>2</sub> Ti <sub>2</sub> S <sub>2</sub> O <sub>5</sub> photocatalyst for water reduction and oxidation under visible light irradiation. <i>Catalysis Today</i> , <b>2012</b> , 185, 253-258	5.3	18
71	Enhancement of the H <sub>2</sub> evolution activity of La <sub>5</sub> Ti <sub>2</sub> Cu(S <sub>1-x</sub> Se <sub>x</sub> ) <sub>5</sub> O <sub>7</sub> photocatalysts by co-loading Pt and NiS cocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 6106-6112	13	17
70	Particulate photocatalyst sheets based on non-oxide semiconductor materials for water splitting under visible light irradiation. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 3918-3925	5.5	17
69	Mutually-dependent kinetics and energetics of photocatalyst/co-catalyst/two-redox liquid junctions. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 162-173	35.4	17
68	Fabrication of Single-Crystalline BaTaO <sub>2</sub> N from Chloride Fluxes for Photocatalytic H <sub>2</sub> Evolution under Visible Light. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 255-261	3.5	17
67	Simultaneously Tuning the Defects and Surface Properties of TaN Nanoparticles by Mg-Zr Codoping for Significantly Accelerated Photocatalytic H Evolution. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 10059-10064	16.4	17
66	Efficient hydrogen evolution on (CuInS)(ZnS) solid solution-based photocathodes under simulated sunlight. <i>Chemical Communications</i> , <b>2019</b> , 55, 470-473	5.8	16
65	Core/Shell Photocatalyst with Spatially Separated Co-Catalysts for Efficient Reduction and Oxidation of Water. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 11462-11466	3.6	16
64	Synthesis and Photocatalytic Activity of La <sub>5</sub> Ti <sub>2</sub> Cu(S <sub>1-x</sub> Se <sub>x</sub> ) <sub>5</sub> O <sub>7</sub> Solid Solutions for H <sub>2</sub> Production under Visible Light Irradiation. <i>ChemPhotoChem</i> , <b>2017</b> , 1, 265-272	3.3	15
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61	Regression model for stabilization energies associated with anion ordering in perovskite-type oxynitrides. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 36, 7-14	12	14
60	Effects of Se Incorporation in LaTiCuSO by Annealing on Physical Properties and Photocatalytic H Evolution Activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 5595-5601	9.5	14
59	Hydrogen Production by Photocatalytic Water Splitting. <i>Journal of the Japan Petroleum Institute</i> , <b>2013</b> , 56, 280-287	1	14



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57	Effects of flux treatment on morphology of single-crystalline BaNbO <sub>2</sub> N particles. <i>CrystEngComm</i> , <b>2016</b> , 18, 3186-3190	3.3	13
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55	Efficient photocatalytic hydrogen evolution on single-crystalline metal selenide particles with suitable cocatalysts. <i>Chemical Science</i> , <b>2020</b> , 11, 6436-6441	9.4	13
54	Investigation of charge separation in particulate oxysulfide and oxynitride photoelectrodes by surface photovoltage spectroscopy. <i>Chemical Physics Letters</i> , <b>2017</b> , 683, 140-144	2.5	12
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