Takashi Hisatomi

List of Publications by Year in Descending Order

183 papers	16,124 citations	54 h-index	125 g-index
190 ext. papers	19,150 ext. citations	11.2 avg, IF	7.14 L-index

#	Paper	IF	Citations
183	Enhanced Overall Water Splitting by a Zirconium-Doped TaON-Based Photocatalyst.. *Angewandte Chemie - International Edition*, **2022**, e202116573	16.4	3
182	Physical properties and photocatalytic activity of pulverized Ga-doped La5Ti2Cu0.9Ag0.1O7S5 powder. *Materials Letters*, **2022**, 319, 132290	3.3	
181	Key Goals and Systems for Large-Scale Solar Hydrogen Production. *Springer Handbooks*, **2022**, 1331-1347	1.3	
180	Oxygen Evolution Activity of LaNbN2O-Based Photocatalysts Obtained from Nitridation of a Precursor Oxide Structurally Modified by Incorporating Volatile Elements. *Catalysts*, **2021**, 11, 566	4	
179	Simultaneously Tuning the Defects and Surface Properties of TaN Nanoparticles by Mg-Zr Codoping for Significantly Accelerated Photocatalytic H Evolution. *Journal of the American Chemical Society*, **2021**, 143, 10059-10064	16.4	17
178	Surface Modifications of (ZnSe)(CuGaSe) to Promote Photocatalytic Z-Scheme Overall Water Splitting. *Journal of the American Chemical Society*, **2021**, 143, 10633-10641	16.4	29
177	Synthesis of Y2Ti2O5S2 by thermal sulfidation for photocatalytic water oxidation and reduction under visible light irradiation. *Research on Chemical Intermediates*, **2021**, 47, 225-234	2.8	6
176	A Na-containing Pt cocatalyst for efficient visible-light-induced hydrogen evolution on BaTaO2N. *Journal of Materials Chemistry A*, **2021**, 9, 13851-13854	13	3
175	Linking in situ charge accumulation to electronic structure in doped SrTiO reveals design principles for hydrogen-evolving photocatalysts. *Nature Materials*, **2021**, 20, 511-517	27	24
174	Microelectrode-based transient amperometry of O adsorption and desorption on a SrTiO photocatalyst excited under water. *Physical Chemistry Chemical Physics*, **2021**, 23, 19386-19393	3.6	2
173	Dual Ag/Co cocatalyst synergism for the highly effective photocatalytic conversion of CO by HO over Al-SrTiO. *Chemical Science*, **2021**, 12, 4940-4948	9.4	11
172	Effect of Mg2+ substitution on the photocatalytic water splitting activity of LaMgxNb1⊠O1+3xN2⊡x. *Journal of Materials Chemistry A*, **2021**, 9, 8655-8662	13	6
171	Efficiency Accreditation and Testing Protocols for Particulate Photocatalysts toward Solar Fuel Production. *Joule*, **2021**, 5, 344-359	27.8	39
170	Sequential cocatalyst decoration on BaTaON towards highly-active Z-scheme water splitting. *Nature Communications*, **2021**, 12, 1005	17.4	46
169	Highly Selective Photocatalytic Conversion of Carbon Dioxide by Water over Al-SrTiO3 Photocatalyst Modified with Silver⊡Metal Dual Cocatalysts. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 9327-9335	8.3	7
168	Synthesis of a Ga-doped La5Ti2Cu0.9Ag0.1O7S5 photocatalyst by thermal sulfidation for hydrogen evolution under visible light. *Journal of Catalysis*, **2021**, 399, 230-236	7.3	5
167	Photocatalytic solar hydrogen production from water on a 100-m scale. *Nature*, **2021**, 598, 304-307	50.4	134

166	Use of metamodels for rapid discovery of narrow bandgap oxide photocatalysts. *IScience*, **2021**, 24, 103068	6.1	4
165	Unveiling charge dynamics of visible light absorbing oxysulfide for efficient overall water splitting. *Nature Communications*, **2021**, 12, 7055	17.4	4
164	Enhanced Photoelectrochemical Water Oxidation from CdTe Photoanodes Annealed with CdCl2. *Angewandte Chemie*, **2020**, 132, 13904-13910	3.6	3
163	Facet engineering of LaNbON2 transformed from LaKNaNbO5 for enhanced photocatalytic O2 evolution. *Journal of Materials Chemistry A*, **2020**, 8, 11743-11751	13	11
162	Enhanced Photoelectrochemical Water Oxidation from CdTe Photoanodes Annealed with CdCl. *Angewandte Chemie - International Edition*, **2020**, 59, 13800-13806	16.4	6
161	Photocatalytic water splitting with a quantum efficiency of almost unity. *Nature*, **2020**, 581, 411-414	50.4	533
160	Self-activated Rh-Zr mixed oxide as a nonhazardous cocatalyst for photocatalytic hydrogen evolution. *Chemical Science*, **2020**, 11, 6862-6867	9.4	8
159	Gas phase photocatalytic water splitting of moisture in ambient air: Toward reagent-free hydrogen production. *Journal of Photochemistry and Photobiology A: Chemistry*, **2020**, 401, 112757	4.7	3
158	Minimizing energy demand and environmental impact for sustainable NH3 and H2O2 production□A perspective on contributions from thermal, electro-, and photo-catalysis. *Applied Catalysis A: General*, **2020**, 594, 117419	5.1	18
157	Efficient photoelectrochemical hydrogen production over CuInS2 photocathodes modified with amorphous Ni-MoSx operating in a neutral electrolyte. *Sustainable Energy and Fuels*, **2020**, 4, 1607-1611	5.8	4
156	Effective Driving of Ag-Loaded and Al-Doped SrTiO3 under Irradiation at □ 300 nm for the Photocatalytic Conversion of CO2 by H2O. *ACS Applied Energy Materials*, **2020**, 3, 1468-1475	6.1	29
155	Efficient photocatalytic oxygen evolution using BaTaO2N obtained from nitridation of perovskite-type oxide. *Journal of Materials Chemistry A*, **2020**, 8, 1127-1130	13	20
154	Mutually-dependent kinetics and energetics of photocatalyst/co-catalyst/two-redox liquid junctions. *Energy and Environmental Science*, **2020**, 13, 162-173	35.4	17
153	Fabrication of Single-Crystalline BaTaO2N from Chloride Fluxes for Photocatalytic H2 Evolution under Visible Light. *Crystal Growth and Design*, **2020**, 20, 255-261	3.5	17
152	Z-Scheme Water Splitting under Near-Ambient Pressure using a Zirconium Oxide Coating on Printable Photocatalyst Sheets. *ChemSusChem*, **2020**, 13, 4906-4910	8.3	7
151	Optimized Synthesis of Ag-Modified Al-Doped SrTiO3 Photocatalyst for the Conversion of CO2 Using H2O as an Electron Donor. *ChemistrySelect*, **2020**, 5, 8779-8786	1.8	9
150	Visible-Light-Driven Photocatalytic Water Splitting: Recent Progress and Challenges. *Trends in Chemistry*, **2020**, 2, 813-824	14.8	53
149	Transient Kinetics of O2 Evolution in Photocatalytic Water-Splitting Reaction. *ACS Catalysis*, **2020**, 10, 13159-13164	13.1	7

148	Platy BaTaO2N Crystals Fabricated from K2CO3–KCl Binary Flux for Photocatalytic H2 Evolution. *ACS Applied Energy Materials*, **2020**, 3, 10669-10675	6.1	6
147	A one-step synthesis of a TaN nanorod photoanode from Ta plates and NHCl powder for photoelectrochemical water oxidation. *Chemical Communications*, **2020**, 56, 11843-11846	5.8	2
146	Effects of annealing conditions on the oxygen evolution activity of a BaTaO2N photocatalyst loaded with cobalt species. *Catalysis Today*, **2020**, 354, 204-210	5.3	8
145	Efficient photocatalytic hydrogen evolution on single-crystalline metal selenide particles with suitable cocatalysts. *Chemical Science*, **2020**, 11, 6436-6441	9.4	13
144	Distinguishing the effects of altered morphology and size on the visible light-induced water oxidation activity and photoelectrochemical performance of BaTaON crystal structures. *Faraday Discussions*, **2019**, 215, 227-241	3.6	8
143	The effects of annealing barium niobium oxynitride in argon on photoelectrochemical water oxidation activity. *Journal of Materials Chemistry A*, **2019**, 7, 493-502	13	19
142	An Al-doped SrTiO photocatalyst maintaining sunlight-driven overall water splitting activity for over 1000 h of constant illumination. *Chemical Science*, **2019**, 10, 3196-3201	9.4	96
141	Regression model for stabilization energies associated with anion ordering in perovskite-type oxynitrides. *Journal of Energy Chemistry*, **2019**, 36, 7-14	12	14
140	Efficient hydrogen evolution on (CuInS)(ZnS) solid solution-based photocathodes under simulated sunlight. *Chemical Communications*, **2019**, 55, 470-473	5.8	16
139	Revealing the role of the Rh valence state, La doping level and Ru cocatalyst in determining the H2 evolution efficiency in doped SrTiO3 photocatalysts. *Sustainable Energy and Fuels*, **2019**, 3, 208-218	5.8	36
138	Oxysulfide photocatalyst for visible-light-driven overall water splitting. *Nature Materials*, **2019**, 18, 827-832	37	222
137	Transient Absorption Spectroscopy Reveals Performance-Limiting Factors in a Narrow-Bandgap Oxysulfide La5(Ti0.99Mg0.01)2CuS5O6.99 Photocatalyst for H2 Generation. *Journal of Physical Chemistry C*, **2019**, 123, 14246-14252	3.8	4
136	Construction of Spatial Charge Separation Facets on BaTaON Crystals by Flux Growth Approach for Visible-Light-Driven H Production. *ACS Applied Materials & Interfaces*, **2019**, 11, 22264-22271	9.5	31
135	Core–Shell-Structured LaTaON2 Transformed from LaKNaTaO5 Plates for Enhanced Photocatalytic H2 Evolution. *Angewandte Chemie*, **2019**, 131, 10776-10780	3.6	4
134	Core-Shell-Structured LaTaON Transformed from LaKNaTaO Plates for Enhanced Photocatalytic H Evolution. *Angewandte Chemie - International Edition*, **2019**, 58, 10666-10670	16.4	32
133	Origin of the overall water splitting activity of TaN revealed by ultrafast transient absorption spectroscopy. *Chemical Science*, **2019**, 10, 5353-5362	9.4	35
132	Reaction systems for solar hydrogen production via water splitting with particulate semiconductor photocatalysts. *Nature Catalysis*, **2019**, 2, 387-399	36.5	539
131	Metal selenide photocatalysts for visible-light-driven Z-scheme pure water splitting. *Journal of Materials Chemistry A*, **2019**, 7, 7415-7422	13	46

130	A Semitransparent Nitride Photoanode Responsive up to ≈600 nm Based on a Carbon Nanotube Thin Film Electrode. *ChemPhotoChem*, **2019**, 3, 521-524	3.3	8
129	Effects of Se Incorporation in LaTiCuSO by Annealing on Physical Properties and Photocatalytic H Evolution Activity. *ACS Applied Materials & Interfaces*, **2019**, 11, 5595-5601	9.5	14
128	Solar-Driven Water Splitting over a BaTaO2N Photoanode Enhanced by Annealing in Argon. *ACS Applied Energy Materials*, **2019**, 2, 5777-5784	6.1	23
127	Metal selenides for photocatalytic Z-scheme pure water splitting mediated by reduced graphene oxide. *Chinese Journal of Catalysis*, **2019**, 40, 1668-1672	11.3	15
126	Visible-Light-Driven Photocatalytic Z-Scheme Overall Water Splitting in La Ti AgS O -based Powder-Suspension System. *ChemSusChem*, **2019**, 12, 1906-1910	8.3	20
125	Transparent Ta N Photoanodes for Efficient Oxygen Evolution toward the Development of Tandem Cells. *Angewandte Chemie - International Edition*, **2019**, 58, 2300-2304	16.4	48
124	Efficient Photocatalytic Water Splitting Using Al-Doped SrTiO3 Coloaded with Molybdenum Oxide and Rhodium□Chromium Oxide. *ACS Catalysis*, **2018**, 8, 2782-2788	13.1	126
123	A Particulate Photocatalyst Water-Splitting Panel for Large-Scale Solar Hydrogen Generation. *Joule* , **2018**, 2, 509-520	27.8	307
122	"A bridge over troubled gaps": up-conversion driven photocatalysis for hydrogen generation and pollutant degradation by near-infrared excitation. *Chemical Communications*, **2018**, 54, 1905-1908	5.8	11
121	Plate-like Sm2Ti2S2O5 Particles Prepared by a Flux-Assisted One-Step Synthesis for the Evolution of O2 from Aqueous Solutions by Both Photocatalytic and Photoelectrochemical Reactions. *Journal of Physical Chemistry C*, **2018**, 122, 13492-13499	3.8	9
120	Efficient Redox-Mediator-Free Z-Scheme Water Splitting Employing Oxysulfide Photocatalysts under Visible Light. *ACS Catalysis*, **2018**, 8, 1690-1696	13.1	90
119	Boosting photocatalytic overall water splitting by Co doping into MnO nanoparticles as oxygen evolution cocatalysts. *Nanoscale*, **2018**, 10, 10420-10427	7.7	45
118	Effects of Calcination Temperature on the Physical Properties and Hydrogen Evolution Activities of La5Ti2Cu(S1-xSex)5O7 Photocatalysts. *Particle and Particle Systems Characterization*, **2018**, 35, 1700275	3.1	8
117	Activation of a particulate Ta3N5 water-oxidation photoanode with a GaN hole-blocking layer. *Sustainable Energy and Fuels*, **2018**, 2, 73-78	5.8	13
116	Optimal Metal Oxide Deposition Conditions and Properties for the Enhancement of Hydrogen Evolution over Particulate La5Ti2Cu1−xAgxS5O7 Photocathodes. *ChemPhotoChem*, **2018**, 2, 234-239	3.3	2
115	Particulate photocatalyst sheets based on non-oxide semiconductor materials for water splitting under visible light irradiation. *Catalysis Science and Technology*, **2018**, 8, 3918-3925	5.5	17
114	La Ti Cu Ag S O Modified with a Molecular Ni Catalyst for Photoelectrochemical H Generation. *Chemistry - A European Journal*, **2018**, 24, 18393-18397	4.8	10
113	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. *Chemical Science*, **2018**, 9, 7546-7555	9.4	30

112	Transparent Ta3N5 Photoanodes for Efficient Oxygen Evolution toward the Development of Tandem Cells. *Angewandte Chemie*, **2018**, 131, 2322	3.6	4
111	Printable Photocatalyst Sheets Incorporating a Transparent Conductive Mediator for Z-Scheme Water Splitting. *Joule*, **2018**, 2, 2667-2680	27.8	41
110	Developments and Trends of the Photocatalyst ~Hydrogen Production Technologies based on Particulate Photocatalysts. *Journal of the Institute of Electrical Engineers of Japan*, **2018**, 138, 598-601	0	
109	Investigation on nitridation processes of SrNbO and SrNbO to SrNbON for photoelectrochemical water splitting. *Scientific Reports*, **2018**, 8, 15849	4.9	12
108	Overall water splitting by Ta3N5 nanorod single crystals grown on the edges of KTaO3 particles. *Nature Catalysis*, **2018**, 1, 756-763	36.5	259
107	Direct observation of hydrogen bubble generation on photocatalyst particles by in situ electron microscopy. *Chemical Physics Letters*, **2018**, 706, 564-567	2.5	2
106	Shifting the NIR into the UV-blue: Up-conversion boosted photocatalysis. *Optical Materials*, **2018**, 83, 315-320	3.3	6
105	Efficient Solar-Driven Water Oxidation over Perovskite-Type BaNbO2N Photoanodes Absorbing Visible Light up to 740 nm. *Advanced Energy Materials*, **2018**, 8, 1800094	21.8	47
104	Particulate Photocatalyst Sheets Based on Carbon Conductor Layer for Efficient Z-Scheme Pure-Water Splitting at Ambient Pressure. *Journal of the American Chemical Society*, **2017**, 139, 1675-1683	16.4	252
103	Synthesis and Photocatalytic Activity of La5Ti2Cu(S1□Sex)5O7 Solid Solutions for H2 Production under Visible Light Irradiation. *ChemPhotoChem*, **2017**, 1, 265-272	3.3	15
102	Enhancement of the H2 evolution activity of La5Ti2Cu(S1□Sex)5O7 photocatalysts by coloading Pt and NiS cocatalysts. *Journal of Materials Chemistry A*, **2017**, 5, 6106-6112	13	17
101	Particulate photocatalyst sheets for Z-scheme water splitting: advantages over powder suspension and photoelectrochemical systems and future challenges. *Faraday Discussions*, **2017**, 197, 491-504	3.6	34
100	Progress in the demonstration and understanding of water splitting using particulate photocatalysts. *Current Opinion in Electrochemistry*, **2017**, 2, 148-154	7.2	22
99	Investigation of charge separation in particulate oxysulfide and oxynitride photoelectrodes by surface photovoltage spectroscopy. *Chemical Physics Letters*, **2017**, 683, 140-144	2.5	12
98	Highly Active GaN-Stabilized Ta3N5 Thin-Film Photoanode for Solar Water Oxidation. *Angewandte Chemie*, **2017**, 129, 4817-4821	3.6	22
97	Highly Active GaN-Stabilized Ta N Thin-Film Photoanode for Solar Water Oxidation. *Angewandte Chemie - International Edition*, **2017**, 56, 4739-4743	16.4	110
96	Enhancement of Charge Separation and Hydrogen Evolution on Particulate LaTiCuSO Photocathodes by Surface Modification. *Journal of Physical Chemistry Letters*, **2017**, 8, 375-379	6.4	14
95	Ultrastable low-bias water splitting photoanodes via photocorrosion inhibition and in situ catalyst regeneration. *Nature Energy*, **2017**, 2,	62.3	206

94	Introductory lecture: sunlight-driven water splitting and carbon dioxide reduction by heterogeneous semiconductor systems as key processes in artificial photosynthesis. *Faraday Discussions*, **2017**, 198, 11-35	3.6	68
93	Synthesis of Concentrated Methylcyclohexane as Hydrogen Carrier through Photoelectrochemical Conversion of Toluene and Water. *ChemSusChem*, **2017**, 10, 659-663	8.3	9
92	Overall water splitting by photoelectrochemical cells consisting of (ZnSe)(CuInGaSe) photocathodes and BiVO photoanodes. *Chemical Communications*, **2017**, 53, 11674-11677	5.8	38
91	Rational Interpretation of Correlated Kinetics of Mobile and Trapped Charge Carriers: Analysis of Ultrafast Carrier Dynamics in BiVO4. *Journal of Physical Chemistry C*, **2017**, 121, 19044-19052	3.8	28
90	CdTe-Based Photoanode for Oxygen Evolution from Water under Simulated Sunlight. *Journal of Physical Chemistry Letters*, **2017**, 8, 5712-5717	6.4	19
89	Water Splitting on Particulate Semiconducting Photocatalysts under Visible Light **2017**, 851-872		
88	Ab initiodensity functional theory calculation of La5Ti2Cu1⊠AgxS5O7solid solution semiconductor photocatalysts for water splitting. *Journal Physics D: Applied Physics*, **2017**, 50, 234004	3	3
87	Sunlight-Driven Overall Water Splitting by the Combination of Surface-Modified La5Ti2Cu0.9Ag0.1S5O7 and BaTaO2N Photoelectrodes. *ChemPhotoChem*, **2017**, 1, 167-172	3.3	21
86	Highly Efficient Water Oxidation Photoanode Made of Surface Modified LaTiO N Particles. *Small*, **2016**, 12, 5468-5476	11	33
85	Photoreduced Graphene Oxide as a Conductive Binder to Improve the Water Splitting Activity of Photocatalyst Sheets. *Advanced Functional Materials*, **2016**, 26, 7011-7019	15.6	47
84	Photoelectrochemical Water Splitting on Particulate ANbO2N (A = Ba, Sr) Photoanodes Prepared from Perovskite-Type ANbO3. *Chemistry of Materials*, **2016**, 28, 6869-6876	9.6	53
83	Visible Light-Driven Z-Scheme Water Splitting Using Oxysulfide H Evolution Photocatalysts. *Journal of Physical Chemistry Letters*, **2016**, 7, 3892-3896	6.4	78
82	Photocatalyst Sheets Composed of Particulate LaMg1/3Ta2/3O2N and Mo-Doped BiVO4 for Z-Scheme Water Splitting under Visible Light. *ACS Catalysis*, **2016**, 6, 7188-7196	13.1	68
81	Investigation of the enhanced photocathodic activity of LaTiCuSO photocathodes in H evolution by synchrotron radiation nanospectroscopy. *Nanoscale*, **2016**, 8, 18893-18896	7.7	10
80	Effects of flux synthesis on SrNbO2N particles for photoelectrochemical water splitting. *Journal of Materials Chemistry A*, **2016**, 4, 7658-7664	13	37
79	Application of LaMg1/3Ta2/3O2N as a hydrogen evolution photocatalyst of a photocatalyst sheet for Z-scheme water splitting. *Applied Catalysis A: General*, **2016**, 521, 26-33	5.1	28
78	Crystal Structure, Electronic Structure, and Photocatalytic Activity of Oxysulfides: La2Ta2ZrS2O8, La2Ta2TiS2O8, and La2Nb2TiS2O8. *Inorganic Chemistry*, **2016**, 55, 3674-9	5.1	20
77	Synthesis of Nanostructured BaTaO2N Thin Films as Photoanodes for Solar Water Splitting. *Journal of Physical Chemistry C*, **2016**, 120, 15758-15764	3.8	55

76	Effects of flux treatment on morphology of single-crystalline BaNbO2N particles. *CrystEngComm*, **2016**, 18, 3186-3190	3.3	13
75	Effect of particle size of La5Ti2CuS5O7 on photoelectrochemical properties in solar hydrogen evolution. *Journal of Materials Chemistry A*, **2016**, 4, 4848-4854	13	23
74	Scalable water splitting on particulate photocatalyst sheets with a solar-to-hydrogen energy conversion efficiency exceeding 1. *Nature Materials*, **2016**, 15, 611-5	27	979
73	A SrTiO3 photoanode prepared by the particle transfer method for oxygen evolution from water with high quantum efficiencies. *Chemical Communications*, **2016**, 52, 5011-4	5.8	38
72	Photocatalytic property of metal ion added SrTiO3 to Overall H2O splitting. *Applied Catalysis A: General*, **2016**, 521, 227-232	5.1	43
71	Flux-mediated doping of SrTiO3 photocatalysts for efficient overall water splitting. *Journal of Materials Chemistry A*, **2016**, 4, 3027-3033	13	152
70	Bulky crystalline BiVO4 thin films for efficient solar water splitting. *Journal of Materials Chemistry A* , **2016**, 4, 9858-9864	13	36
69	Thin film transfer for the fabrication of tantalum nitride photoelectrodes with controllable layered structures for water splitting. *Chemical Science*, **2016**, 7, 5821-5826	9.4	21
68	Photoelectrochemical Solar Cells Consisting of a Pt-Modified CdS Photoanode and an Fe(ClO4)2/Fe(ClO4)3 Redox Shuttle in a Nonaqueous Electrolyte. *Journal of Physical Chemistry C*, **2016**, 120, 10781-10790	3.8	7
67	Rationalizing long-lived photo-excited carriers in photocatalyst (La5Ti2CuS5O7) in terms of one-dimensional carrier transport. *Chemical Physics*, **2016**, 476, 9-16	2.3	9
66	Effects of interfacial layers on the photoelectrochemical properties of tantalum nitride photoanodes for solar water splitting. *Journal of Materials Chemistry A*, **2016**, 4, 13837-13843	13	10
65	Positive onset potential and stability of Cu2O-based photocathodes in water splitting by atomic layer deposition of a Ga2O3 buffer layer. *Energy and Environmental Science*, **2015**, 8, 1493-1500	35.4	170
64	Kinetics of Distance-Dependent Recombination between Geminate Charge Carriers by Diffusion under Coulomb Interaction. *Journal of Physical Chemistry C*, **2015**, 119, 5364-5373	3.8	25
63	Efficient Visible-Light-Driven Z-Scheme Overall Water Splitting Using a MgTa2O6−xNy /TaON Heterostructure Photocatalyst for H2 Evolution. *Angewandte Chemie*, **2015**, 127, 8618-8621	3.6	56
62	Photocatalytic activity of ZnO/GaP1−xNx for water splitting. *Journal of Materials Chemistry A*, **2015**, 3, 18083-18089	13	12
61	Particle suspension reactors and materials for solar-driven water splitting. *Energy and Environmental Science*, **2015**, 8, 2825-2850	35.4	256
60	Surface Modification of CoO(x) Loaded BiVO4 Photoanodes with Ultrathin p-Type NiO Layers for Improved Solar Water Oxidation. *Journal of the American Chemical Society*, **2015**, 137, 5053-60	16.4	436
59	Mg-Zr Cosubstituted Ta3N5 Photoanode for Lower-Onset-Potential Solar-Driven Photoelectrochemical Water Splitting. *Journal of the American Chemical Society*, **2015**, 137, 12780-3	16.4	147

58	La5Ti2Cu1−xAgxS5O7 photocathodes operating at positive potentials during photoelectrochemical hydrogen evolution under irradiation of up to 710 nm. *Energy and Environmental Science*, **2015**, 8, 3354-3362	35.4	44
57	Photoanodic and photocathodic behaviour of LaTiCuSO electrodes in the water splitting reaction. *Chemical Science*, **2015**, 6, 4513-4518	9.4	29
56	Efficient Visible-Light-Driven Z-Scheme Overall Water Splitting Using a MgTa2O(6-x)N(y)/TaON Heterostructure Photocatalyst for H2 Evolution. *Angewandte Chemie - International Edition*, **2015**, 54, 8498-501	16.4	205
55	Site-selective photodeposition of Pt on a particulate Sc-La5Ti2CuS5O7 photocathode: evidence for one-dimensional charge transfer. *Chemical Communications*, **2015**, 51, 4302-5	5.8	33
54	Z-scheme water splitting using particulate semiconductors immobilized onto metal layers for efficient electron relay. *Journal of Catalysis*, **2015**, 328, 308-315	7.3	91
53	Morphology-sensitive trapping states of photogenerated charge carriers on SrTiO3 particles studied by time-resolved visible to Mid-IR absorption spectroscopy: The effects of molten salt flux treatments. *Journal of Photochemistry and Photobiology A: Chemistry*, **2015**, 313, 168-175	4.7	51
52	Photocatalytic Water-Splitting Reaction from Catalytic and Kinetic Perspectives. *Catalysis Letters*, **2015**, 145, 95-108	2.8	165
51	Photoelectrochemical oxidation of water using BaTaO2N photoanodes prepared by particle transfer method. *Journal of the American Chemical Society*, **2015**, 137, 2227-30	16.4	140
50	Nanostructured WO3 /BiVO4 photoanodes for efficient photoelectrochemical water splitting. *Small*, **2014**, 10, 3692-9	11	191
49	Recent advances in semiconductors for photocatalytic and photoelectrochemical water splitting. *Chemical Society Reviews*, **2014**, 43, 7520-35	58.5	3037
48	Enhancement of Photocatalytic Water Oxidation by the Morphological Control of LaTiO2N and Cobalt Oxide Catalysts. *Journal of Physical Chemistry C*, **2014**, 118, 16344-16351	3.8	69
47	Photoelectrochemical properties of SrNbO2N photoanodes for water oxidation fabricated by the particle transfer method. *Faraday Discussions*, **2014**, 176, 213-23	3.6	44
46	Improving the photoelectrochemical activity of La5Ti2CuS5O7 for hydrogen evolution by particle transfer and doping. *Energy and Environmental Science*, **2014**, 7, 2239-2242	35.4	50
45	Effect of post-treatments on the photocatalytic activity of Sm2Ti2S2O5 for the hydrogen evolution reaction. *Physical Chemistry Chemical Physics*, **2014**, 16, 12051-6	3.6	41
44	Trapped state sensitive kinetics in LaTiO2N solid photocatalyst with and without cocatalyst loading. *Journal of the American Chemical Society*, **2014**, 136, 17324-31	16.4	63
43	Fabrication of photocatalyst panels and the factors determining their activity for water splitting. *Catalysis Science and Technology*, **2014**, 4, 325-328	5.5	28
42	Enhancing photocatalytic activity of LaTiO2N by removal of surface reconstruction layer. *Nano Letters*, **2014**, 14, 1038-41	11.5	109
41	On the Solar to Hydrogen Conversion Efficiency of Photoelectrodes for Water Splitting. *Journal of Physical Chemistry Letters*, **2014**, 5, 3330-4	6.4	97

40	Core/Shell Structured La- and Rh-Codoped SrTiO3 as a Hydrogen Evolution Photocatalyst in Z-Scheme Overall Water Splitting under Visible Light Irradiation. *Chemistry of Materials*, **2014**, 26, 4144-4150	9.6	197
39	Enhancement of Solar Hydrogen Evolution from Water by Surface Modification with CdS and TiO2 on Porous CuInS2 Photocathodes Prepared by an Electrodeposition-Sulfurization Method. *Angewandte Chemie*, **2014**, 126, 12002-12006	3.6	12
38	Enhancement of solar hydrogen evolution from water by surface modification with CdS and TiO2 on porous CuInS2 photocathodes prepared by an electrodeposition-sulfurization method. *Angewandte Chemie - International Edition*, **2014**, 53, 11808-12	16.4	151
37	Conversion of toluene and water to methylcyclohexane and oxygen using niobium-doped strontium titanate photoelectrodes. *ChemSusChem*, **2014**, 7, 2690-4	8.3	7
36	The effects of preparation conditions for a BaNbO2 N photocatalyst on its physical properties. *ChemSusChem*, **2014**, 7, 2016-21	8.3	35
35	Effect of Hydrogen and Oxygen Evolution Cocatalysts on Photocatalytic Activity of GaN:ZnO. *European Journal of Inorganic Chemistry*, **2014**, 2014, 767-772	2.3	46
34	Core/Shell photocatalyst with spatially separated co-catalysts for efficient reduction and oxidation of water. *Angewandte Chemie - International Edition*, **2013**, 52, 11252-6	16.4	225
33	Photocatalytic oxygen evolution using BaNbO2N modified with cobalt oxide under photoexcitation up to 740 nm. *Energy and Environmental Science*, **2013**, 6, 3595	35.4	108
32	A redox-mediator-free solar-driven Z-scheme water-splitting system consisting of modified Ta3N5 as an oxygen-evolution photocatalyst. *Chemistry - A European Journal*, **2013**, 19, 7480-6	4.8	103
31	Physicochemical properties and photocatalytic H2 evolution activity of Rh-doped La2Ti2O7 prepared by molten salt synthesis. *Catalysis Science and Technology*, **2013**, 3, 2098	5.5	28
30	Core/Shell Photocatalyst with Spatially Separated Co-Catalysts for Efficient Reduction and Oxidation of Water. *Angewandte Chemie*, **2013**, 125, 11462-11466	3.6	16
29	Hydrogen Production by Photocatalytic Water Splitting. *Journal of the Japan Petroleum Institute*, **2013**, 56, 280-287	1	14
28	Kinetic Assessment and Numerical Modeling of Photocatalytic Water Splitting toward Efficient Solar Hydrogen Production. *Bulletin of the Chemical Society of Japan*, **2012**, 85, 647-655	5.1	56
27	Structural and photocatalytic properties of perovskite-type (La,Ca)Ti(O,N)3 prepared from A-site deficient precursors. *Journal of Materials Chemistry*, **2012**, 22, 17906		34
26	Enhanced water oxidation on Ta3N5 photocatalysts by modification with alkaline metal salts. *Journal of the American Chemical Society*, **2012**, 134, 19993-6	16.4	186
25	Highly efficient water splitting by a dual-absorber tandem cell. *Nature Photonics*, **2012**, 6, 824-828	33.9	398
24	A titanium-based oxysulfide photocatalyst: La5Ti2MS5O7 (M = Ag, Cu) for water reduction and oxidation. *Physical Chemistry Chemical Physics*, **2012**, 14, 15475-81	3.6	51
23	Perovskite-Type LaTiO2N Oxynitrides for Solar Water Splitting: Influence of the Synthesis Conditions. *Energy Procedia*, **2012**, 22, 61-66	2.3	35

22	Synthesis and Characterization of La (Ti,Nb)(O,N)3 for Photocatalytic Water Oxidation. *Energy Procedia*, **2012**, 22, 41-47	2.3	4
21	Transparent, conducting Nb:SnO2 for host-guest photoelectrochemistry. *Nano Letters*, **2012**, 12, 5431-5	11.5	110
20	Dynamics of photogenerated holes in surface modified □Fe2O3 photoanodes for solar water splitting. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 15640-5	11.5	362
19	Ultrathin films on copper(I) oxide water splitting photocathodes: a study on performance and stability. *Energy and Environmental Science*, **2012**, 5, 8673	35.4	354
18	A Ga2O3 underlayer as an isomorphic template for ultrathin hematite films toward efficient photoelectrochemical water splitting. *Faraday Discussions*, **2012**, 155, 223-32; discussion 297-308	3.6	90
17	Photocatalytic water splitting using modified GaN:ZnO solid solution under visible light: long-time operation and regeneration of activity. *Journal of the American Chemical Society*, **2012**, 134, 8254-9	16.4	257
16	Enhancement in the performance of ultrathin hematite photoanode for water splitting by an oxide underlayer. *Advanced Materials*, **2012**, 24, 2699-702	24	257
15	Investigation of cocatalysts on silver-modified Sm2Ti2S2O5 photocatalyst for water reduction and oxidation under visible light irradiation. *Catalysis Today*, **2012**, 185, 253-258	5.3	18
14	Synthesis and photocatalytic activity of perovskite niobium oxynitrides with wide visible-light absorption bands. *ChemSusChem*, **2011**, 4, 74-8	8.3	189
13	Cathodic shift in onset potential of solar oxygen evolution on hematite by 13-group oxide overlayers. *Energy and Environmental Science*, **2011**, 4, 2512	35.4	243
12	H2Evolution from Water on Modified Cu2ZnSnS4Photoelectrode under Solar Light. *Applied Physics Express*, **2010**, 3, 101202	2.4	135
11	Preparation of Crystallized Mesoporous Ta3N5 Assisted by Chemical Vapor Deposition of Tetramethyl Orthosilicate. *Chemistry of Materials*, **2010**, 22, 3854-3861	9.6	63
10	Photocatalytic Overall Water Splitting Promoted by Two Different Cocatalysts for Hydrogen and Oxygen Evolution under Visible Light. *Angewandte Chemie*, **2010**, 122, 4190-4193	3.6	127
9	Photocatalytic overall water splitting promoted by two different cocatalysts for hydrogen and oxygen evolution under visible light. *Angewandte Chemie - International Edition*, **2010**, 49, 4096-9	16.4	325
8	Isotopic and kinetic assessment of photocatalytic water splitting on Zn-added Ga2O3 photocatalyst loaded with Rh2□CryO3 cocatalyst. *Chemical Physics Letters*, **2010**, 486, 144-146	2.5	47
7	The effects of starting materials in the synthesis of (Ga(1-x)Znx)(N(1-x)O(x)) solid solution on its photocatalytic activity for overall water splitting under visible light. *ChemSusChem*, **2009**, 2, 336-43	8.3	44
6	Needlelike Crystal Growth and Anisotropic Photochemical Reactivity of Ta3N5 Synthesized in Vacuo. *Journal of Physical Chemistry C*, **2009**, 113, 17151-17155	3.8	13
5	Aspects of the Water Splitting Mechanism on (Ga1□Znx)(N1□Ox) Photocatalyst Modified with Rh2□CryO3 Cocatalyst. *Journal of Physical Chemistry C*, **2009**, 113, 21458-21466	3.8	119

4	Characterization of Spinel Zinc Titanium Nitride Oxide as a Visible Light Driven Photocatalyst. *Bulletin of the Chemical Society of Japan*, **2008**, 81, 1647-1656	5.1	12
3	Zinc and Titanium Spinel Oxynitride (ZnxTiOyNz) as a d0□10Complex Photocatalyst with Visible Light Activity. *Chemistry Letters*, **2007**, 36, 558-559	1.7	25
2	Cocatalyst engineering of a narrow bandgap Ga-La5Ti2Cu0.9Ag0.1O7S5 photocatalyst towards effectively enhanced water splitting. *Journal of Materials Chemistry A*,	13	1
1	Bimetallic Synergy in Ultrafine Cocatalyst Alloy Nanoparticles for Efficient Photocatalytic Water Splitting. *Advanced Functional Materials*,2202987	15.6	1