

Kazuhiko Maeda

List of Publications by Citations

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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.

260
papers

38,905
citations

84
h-index

196
g-index

288
ext. papers

42,596
ext. citations

8
avg, IF

7.85
L-index

#	Paper	IF	Citations
260	A metal-free polymeric photocatalyst for hydrogen production from water under visible light. <i>Nature Materials</i> , 2009 , 8, 76-80	27	8489
259	Photocatalyst releasing hydrogen from water. <i>Nature</i> , 2006 , 440, 295	50.4	2395
258	Photocatalytic Water Splitting: Recent Progress and Future Challenges. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2655-2661	6.4	1940
257	Polymer semiconductors for artificial photosynthesis: hydrogen evolution by mesoporous graphitic carbon nitride with visible light. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1680-1	16.4	1418
256	New Non-Oxide Photocatalysts Designed for Overall Water Splitting under Visible Light. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7851-7861	3.8	1239
255	GaN:ZnO solid solution as a photocatalyst for visible-light-driven overall water splitting. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8286-7	16.4	1195
254	Synthesis of a carbon nitride structure for visible-light catalysis by copolymerization. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 441-4	16.4	1118
253	Visible light water splitting using dye-sensitized oxide semiconductors. <i>Accounts of Chemical Research</i> , 2009 , 42, 1966-73	24.3	895
252	Z-Scheme Water Splitting Using Two Different Semiconductor Photocatalysts. <i>ACS Catalysis</i> , 2013 , 3, 1486-1503	13.1	832
251	Photocatalytic water splitting using semiconductor particles: History and recent developments. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2011 , 12, 237-268	16.4	821
250	Sulfur-mediated synthesis of carbon nitride: Band-gap engineering and improved functions for photocatalysis. <i>Energy and Environmental Science</i> , 2011 , 4, 675-678	35.4	624
249	Photocatalytic Activities of Graphitic Carbon Nitride Powder for Water Reduction and Oxidation under Visible Light. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 4940-4947	3.8	601
248	Efficient nonsacrificial water splitting through two-step photoexcitation by visible light using a modified oxynitride as a hydrogen evolution photocatalyst. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5858-68	16.4	597
247	Noble-metal/Cr(2)O(3) core/shell nanoparticles as a cocatalyst for photocatalytic overall water splitting. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7806-9	16.4	468
246	Visible-light-driven CO ₂ reduction with carbon nitride: enhancing the activity of ruthenium catalysts. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2406-9	16.4	451
245	Expanding frontiers in materials chemistry and physics with multiple anions. <i>Nature Communications</i> , 2018 , 9, 772	17.4	379
244	Overall water splitting on (Ga(1-x)Zn(x))(N(1-x)O(x)) solid solution photocatalyst: relationship between physical properties and photocatalytic activity. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20504-10	24.0	360

243	Ordered Mesoporous SBA-15 Type Graphitic Carbon Nitride: A Semiconductor Host Structure for Photocatalytic Hydrogen Evolution with Visible Light. <i>Chemistry of Materials</i> , 2009 , 21, 4093-4095	9.6	358
242	Artificial Z-scheme constructed with a supramolecular metal complex and semiconductor for the photocatalytic reduction of CO ₂ . <i>Journal of the American Chemical Society</i> , 2013 , 135, 4596-9	16.4	353
241	RuO ₂ -loaded beta-Ge ₃ N ₄ as a non-oxide photocatalyst for overall water splitting. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4150-1	16.4	353
240	Cobalt-modified porous single-crystalline LaTiO ₂ N for highly efficient water oxidation under visible light. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8348-51	16.4	329
239	Nature-Inspired, Highly Durable CO ₂ Reduction System Consisting of a Binuclear Ruthenium(II) Complex and an Organic Semiconductor Using Visible Light. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5159-70	16.4	329
238	Photocatalytic overall water splitting promoted by two different cocatalysts for hydrogen and oxygen evolution under visible light. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4096-9	16.4	325
237	Solid Solution of GaN and ZnO as a Stable Photocatalyst for Overall Water Splitting under Visible Light. <i>Chemistry of Materials</i> , 2010 , 22, 612-623	9.6	318
236	Effect of post-calcination on photocatalytic activity of (Ga _{1-x} Zn _x)(N _{1-x} O _x) solid solution for overall water splitting under visible light. <i>Journal of Catalysis</i> , 2008 , 254, 198-204	7.3	263
235	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> , 2012 , 134, 8254-9	16.4	257
234	Photocatalytic oxidation of water by polymeric carbon nitride nanohybrids made of sustainable elements. <i>Chemical Science</i> , 2012 , 3, 443-446	9.4	232
233	A polymeric-semiconductor-metal-complex hybrid photocatalyst for visible-light CO(2) reduction. <i>Chemical Communications</i> , 2013 , 49, 10127-9	5.8	216
232	Photoelectrochemical Reduction of CO Coupled to Water Oxidation Using a Photocathode with a Ru(II)-Re(I) Complex Photocatalyst and a CoO/TaON Photoanode. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14152-14158	16.4	216
231	SrNbO ₂ N as a water-splitting photoanode with a wide visible-light absorption band. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12334-7	16.4	204
230	Roles of Rh/Cr ₂ O ₃ (Core/Shell) Nanoparticles Photodeposited on Visible-Light-Responsive (Ga _{1-x} Zn _x)(N _{1-x} O _x) Solid Solutions in Photocatalytic Overall Water Splitting. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7554-7560	3.8	200
229	Efficient overall water splitting under visible-light irradiation on (Ga _{1-x} Zn _x)(N _{1-x} O _x) dispersed with Rh-Cr mixed-oxide nanoparticles: Effect of reaction conditions on photocatalytic activity. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13107-12	3.4	196
228	Role and Function of Noble-Metal/Cr-Layer Core/Shell Structure Cocatalysts for Photocatalytic Overall Water Splitting Studied by Model Electrodes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10151-10157	3.8	194
227	Synthesis and photocatalytic activity of perovskite niobium oxynitrides with wide visible-light absorption bands. <i>ChemSusChem</i> , 2011 , 4, 74-8	8.3	189
226	Improvement of photocatalytic activity of (Ga _{1-x} Zn _x)(N _{1-x} O _x) solid solution for overall water splitting by co-loading Cr and another transition metal. <i>Journal of Catalysis</i> , 2006 , 243, 303-308	7.3	188

225	Enhanced water oxidation on Ta ₃ N ₅ photocatalysts by modification with alkaline metal salts. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19993-6	16.4	186
224	Robust Binding between Carbon Nitride Nanosheets and a Binuclear Ruthenium(II) Complex Enabling Durable, Selective CO Reduction under Visible Light in Aqueous Solution. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4867-4871	16.4	185
223	Modified Ta ₃ N ₅ powder as a photocatalyst for O ₂ evolution in a two-step water splitting system with an iodate/iodide shuttle redox mediator under visible light. <i>Langmuir</i> , 2010 , 26, 9161-5	4	167
222	Characterization of Rh-Cr mixed-oxide nanoparticles dispersed on (Ga _(1-x) Zn _(x))(N _(1-x) O _x) as a cocatalyst for visible-light-driven overall water splitting. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13753-8	3.4	167
221	The effect of the pore-wall structure of carbon nitride on photocatalytic CO ₂ reduction under visible light. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15146-15151	13	166
220	Niobium Oxide Nanoscrolls as Building Blocks for Dye-Sensitized Hydrogen Production from Water under Visible Light Irradiation. <i>Chemistry of Materials</i> , 2008 , 20, 6770-6778	9.6	163
219	Noble-Metal/Cr ₂ O ₃ Core/Shell Nanoparticles as a Cocatalyst for Photocatalytic Overall Water Splitting. <i>Angewandte Chemie</i> , 2006 , 118, 7970-7973	3.6	159
218	Role and Function of Ruthenium Species as Promoters with TaON-Based Photocatalysts for Oxygen Evolution in Two-Step Water Splitting under Visible Light. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3057-3064	3.8	155
217	Synthesis of a Carbon Nitride Structure for Visible-Light Catalysis by Copolymerization. <i>Angewandte Chemie</i> , 2010 , 122, 451-454	3.6	146
216	Photocatalytic Hydrogen Evolution from Hexaniobate Nanoscrolls and Calcium Niobate Nanosheets Sensitized by Ruthenium(II) Bipyridyl Complexes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7962-7969	3.8	145
215	Two-Dimensional Metal Oxide Nanosheets as Building Blocks for Artificial Photosynthetic Assemblies. <i>Bulletin of the Chemical Society of Japan</i> , 2019 , 92, 38-54	5.1	145
214	Photoelectrochemical water splitting using a Cu(In,Ga)Se ₂ thin film. <i>Electrochemistry Communications</i> , 2010 , 12, 851-853	5.1	144
213	Visible-light-driven nonsacrificial water oxidation over tungsten trioxide powder modified with two different cocatalysts. <i>Energy and Environmental Science</i> , 2012 , 5, 8390	35.4	139
212	Preparation of core-shell-structured nanoparticles (with a noble-metal or metal oxide core and a chromia shell) and their application in water splitting by means of visible light. <i>Chemistry - A European Journal</i> , 2010 , 16, 7750-9	4.8	139
211	Direct water splitting into hydrogen and oxygen under visible light by using modified TaON photocatalysts with d(0) electronic configuration. <i>Chemistry - A European Journal</i> , 2013 , 19, 4986-91	4.8	131
210	Ta ₃ N ₅ photoanodes for water splitting prepared by sputtering. <i>Thin Solid Films</i> , 2011 , 519, 2087-2092	2.2	130
209	Surface Modification of TaON with Monoclinic ZrO ₂ to Produce a Composite Photocatalyst with Enhanced Hydrogen Evolution Activity under Visible Light. <i>Bulletin of the Chemical Society of Japan</i> , 2008 , 81, 927-937	5.1	130
208	Solar-Driven Z-scheme Water Splitting Using Modified BaZrO ₃ BaTaO ₂ N Solid Solutions as Photocatalysts. <i>ACS Catalysis</i> , 2013 , 3, 1026-1033	13.1	127

207	Photocatalytic Overall Water Splitting Promoted by Two Different Cocatalysts for Hydrogen and Oxygen Evolution under Visible Light. <i>Angewandte Chemie</i> , 2010 , 122, 4190-4193	3.6	127
206	Development of Novel Photocatalyst and Cocatalyst Materials for Water Splitting under Visible Light. <i>Bulletin of the Chemical Society of Japan</i> , 2016 , 89, 627-648	5.1	125
205	A Carbon Nitride/Fe Quaterpyridine Catalytic System for Photostimulated CO-to-CO Conversion with Visible Light. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7437-7440	16.4	122
204	Photoelectrochemical CO ₂ reduction using a Ru(II)-Re(I) multinuclear metal complex on a p-type semiconducting NiO electrode. <i>Chemical Communications</i> , 2015 , 51, 10722-5	5.8	122
203	Rhodium-doped barium titanate perovskite as a stable p-type semiconductor photocatalyst for hydrogen evolution under visible light. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2167-73	9.5	121
202	Photocatalytic Hydrogen Evolution from Water Using Copper Gallium Sulfide under Visible-Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11215-11220	3.8	119
201	Aspects of the Water Splitting Mechanism on (Ga _{1-x} Zn _x)(N _{1-x} O _x) Photocatalyst Modified with Rh ₂ CrO ₃ Cocatalyst. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21458-21466	3.8	119
200	Water oxidation using a particulate BaZrO ₃ -BaTaO ₂ N solid-solution photocatalyst that operates under a wide range of visible light. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9865-9	16.4	116
199	Highly active tantalum(V) nitride nanoparticles prepared from a mesoporous carbon nitride template for photocatalytic hydrogen evolution under visible light irradiation. <i>Journal of Materials Chemistry</i> , 2010 , 20, 4295		116
198	Metal-Complex/Semiconductor Hybrid Photocatalysts and Photoelectrodes for CO Reduction Driven by Visible Light. <i>Advanced Materials</i> , 2019 , 31, e1808205	24	113
197	Hybrid photocathode consisting of a CuGaO p-type semiconductor and a Ru(ii)-Re(i) supramolecular photocatalyst: non-biased visible-light-driven CO reduction with water oxidation. <i>Chemical Science</i> , 2017 , 8, 4242-4249	9.4	111
196	Efficient Visible-Light-Driven CO Reduction by a Cobalt Molecular Catalyst Covalently Linked to Mesoporous Carbon Nitride. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6188-6195	16.4	109
195	Water Splitting on Rutile TiO ₂ -Based Photocatalysts. <i>Chemistry - A European Journal</i> , 2018 , 24, 18204-18219	19	108
194	Synthesis and photocatalytic activity of poly(triazine imide). <i>Chemistry - an Asian Journal</i> , 2013 , 8, 218-244.5	4.5	108
193	Characterization of ruthenium oxide nanocluster as a cocatalyst with (Ga _{1-x} Zn _x)(N _{1-x} O _x) for photocatalytic overall water splitting. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 21915-21	3.4	108
192	Comparison of two- and three-layer restacked Dion-Jacobson phase niobate nanosheets as catalysts for photochemical hydrogen evolution. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4813		106
191	Photocatalytic Activity of (Ga _{1-x} Zn _x)(N _{1-x} O _x) for Visible-Light-Driven H ₂ and O ₂ Evolution in the Presence of Sacrificial Reagents. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3447-3452	3.8	104
190	A redox-mediator-free solar-driven Z-scheme water-splitting system consisting of modified Ta ₃ N ₅ as an oxygen-evolution photocatalyst. <i>Chemistry - A European Journal</i> , 2013 , 19, 7480-6	4.8	103

189	Selective Formic Acid Production via CO ₂ Reduction with Visible Light Using a Hybrid of a Perovskite Tantalum Oxynitride and a Binuclear Ruthenium(II) Complex. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13092-7	9.5	101
188	A Stable, Narrow-Gap Oxyfluoride Photocatalyst for Visible-Light Hydrogen Evolution and Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6648-6655	16.4	99
187	Studies on TiN _x O _y F _z as a Visible-Light-Responsive Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18264-18270	3.8	99
186	Intercalation of highly dispersed metal nanoclusters into a layered metal oxide for photocatalytic overall water splitting. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2698-702	16.4	98
185	Unique Solvent Effects on Visible-Light CO ₂ Reduction over Ruthenium(II)-Complex/Carbon Nitride Hybrid Photocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6011-8	9.5	94
184	Direct splitting of pure water into hydrogen and oxygen using rutile titania powder as a photocatalyst. <i>Chemical Communications</i> , 2013 , 49, 8404-6	5.8	92
183	Photocatalytic Overall Water Splitting on Gallium Nitride Powder. <i>Bulletin of the Chemical Society of Japan</i> , 2007 , 80, 1004-1010	5.1	92
182	Highly dispersed noble-metal/chromia (core/shell) nanoparticles as efficient hydrogen evolution promoters for photocatalytic overall water splitting under visible light. <i>Nanoscale</i> , 2009 , 1, 106-9	7.7	90
181	(Oxy)nitrides with d ⁰ -electronic configuration as photocatalysts and photoanodes that operate under a wide range of visible light for overall water splitting. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 10537-48	3.6	88
180	Perovskite oxide nanosheets with tunable band-edge potentials and high photocatalytic hydrogen-evolution activity. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13164-8	16.4	87
179	Photocatalytic Properties of RuO ₂ -Loaded β -Ge ₃ N ₄ for Overall Water Splitting. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 4749-4755	3.8	87
178	Visible-Light-Driven CO ₂ Reduction with Carbon Nitride: Enhancing the Activity of Ruthenium Catalysts. <i>Angewandte Chemie</i> , 2015 , 127, 2436-2439	3.6	85
177	Oxynitride materials for solar water splitting. <i>MRS Bulletin</i> , 2011 , 36, 25-31	3.2	85
176	Visible-light-driven CO reduction on a hybrid photocatalyst consisting of a Ru(ii) binuclear complex and a Ag-loaded TaON in aqueous solutions. <i>Chemical Science</i> , 2016 , 7, 4364-4371	9.4	81
175	Oxidation of water under visible-light irradiation over modified BaTaO ₂ N photocatalysts promoted by tungsten species. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6488-91	16.4	81
174	Calcium Niobate Nanosheets Prepared by the Polymerized Complex Method as Catalytic Materials for Photochemical Hydrogen Evolution. <i>Chemistry of Materials</i> , 2009 , 21, 3611-3617	9.6	80
173	Origin of Visible Light Absorption in GaN-Rich (Ga _{1-x} Zn _x)(N _{1-x} O _x) Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18853-18855	3.8	79
172	Crystal structure and optical properties of (Ga _{1-x} Zn _x)(N _{1-x} O _x) oxynitride photocatalyst (x=0.13). <i>Chemical Physics Letters</i> , 2005 , 416, 225-228	2.5	78

171	Solar-driven Z-scheme water splitting using tantalum/nitrogen co-doped rutile titania nanorod as an oxygen evolution photocatalyst. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11710-11719	13	76
170	Hybrids of a Ruthenium(II) Polypyridyl Complex and a Metal Oxide Nanosheet for Dye-Sensitized Hydrogen Evolution with Visible Light: Effects of the Energy Structure on Photocatalytic Activity. <i>ACS Catalysis</i> , 2015 , 5, 1700-1707	13.1	73
169	A precursor route to prepare tantalum (V) nitride nanoparticles with enhanced photocatalytic activity for hydrogen evolution under visible light. <i>Applied Catalysis A: General</i> , 2009 , 370, 88-92	5.1	70
168	Preparation of (Ga _{1-x} Zn _x)(N _{1-x} O _x) solid-solution from ZnGa ₂ O ₄ and ZnO as a photo-catalyst for overall water splitting under visible light. <i>Applied Catalysis A: General</i> , 2007 , 327, 114-121	5.1	70
167	Overall water splitting using (oxy)nitride photocatalysts. <i>Pure and Applied Chemistry</i> , 2006 , 78, 2267-2276.	6.1	69
166	Photoluminescence Spectroscopic and Computational Investigation of the Origin of the Visible Light Response of (Ga _{1-x} Zn _x)(N _{1-x} O _x) Photocatalyst for Overall Water Splitting. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15510-15515	3.8	68
165	Polyol Synthesis of Size-Controlled Rh Nanoparticles and Their Application to Photocatalytic Overall Water Splitting under Visible Light. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2467-2473	3.8	67
164	Highly efficient visible-light-driven CO ₂ reduction to CO using a Ru(II)Re(I) supramolecular photocatalyst in an aqueous solution. <i>Green Chemistry</i> , 2016 , 18, 139-143	10	65
163	Effect of TiCl ₄ treatment on the photoelectrochemical properties of LaTiO ₂ N electrodes for water splitting under visible light. <i>Thin Solid Films</i> , 2010 , 518, 5855-5859	2.2	62
162	Enhancement of photocatalytic activity of (Zn _{1+x} Ge)(N ₂ O _x) for visible-light-driven overall water splitting by calcination under nitrogen. <i>Chemical Physics Letters</i> , 2008 , 457, 134-136	2.5	62
161	Effect of electrolyte addition on activity of (Ga _{1-x} Zn _x)(N _{1-x} O _x) photocatalyst for overall water splitting under visible light. <i>Catalysis Today</i> , 2009 , 147, 173-178	5.3	61
160	Nanoparticulate precursor route to fine particles of TaON and ZrO ₂ TaON solid solution and their photocatalytic activity for hydrogen evolution under visible light. <i>Applied Catalysis A: General</i> , 2009 , 357, 206-212	5.1	61
159	An Artificial Z-Scheme Constructed from Dye-Sensitized Metal Oxide Nanosheets for Visible Light-Driven Overall Water Splitting. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8412-8420	16.4	60
158	Modification of Wide-Band-Gap Oxide Semiconductors with Cobalt Hydroxide Nanoclusters for Visible-Light Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8309-13	16.4	60
157	Earth-Abundant Molecular Z-Scheme Photoelectrochemical Cell for Overall Water-Splitting. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9593-9602	16.4	59
156	Simultaneous photodeposition of rhodium-chromium nanoparticles on a semiconductor powder: structural characterization and application to photocatalytic overall water splitting. <i>Energy and Environmental Science</i> , 2010 , 3, 471-478	35.4	58
155	Synergistic Effect of Hydrochloric Acid and Phytic Acid Doping on Polyaniline-Coupled g-CN Nanosheets for Photocatalytic Cr(VI) Reduction and Dye Degradation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35702-35712	9.5	57
154	Interfacial Manipulation by Rutile TiO Nanoparticles to Boost CO Reduction into CO on a Metal-Complex/Semiconductor Hybrid Photocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23869-23877	9.5	56

153	Synthesis and photocatalytic activity of gallium/zinc/indium mixed oxynitride for hydrogen and oxygen evolution under visible light. <i>Chemical Physics Letters</i> , 2009 , 470, 90-94	2.5	55
152	Dependence of Activity of Rutile Titanium(IV) Oxide Powder for Photocatalytic Overall Water Splitting on Structural Properties. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9093-9100	3.8	54
151	Activation of BaTaO ₂ N photocatalyst for enhanced non-sacrificial hydrogen evolution from water under visible light by forming a solid solution with BaZrO ₃ . <i>Chemistry - A European Journal</i> , 2011 , 17, 14731-5	4.8	54
150	Gas phase photocatalytic water splitting with Rh ₂ (CryO ₃ /GaN:ZnO) in reactors. <i>Energy and Environmental Science</i> , 2011 , 4, 2937	35.4	53
149	Experimental visualization of covalent bonds and structural disorder in a gallium zinc oxynitride photocatalyst (Ga _(1-x) Zn _x)(N _(1-x) O _x): origin of visible light absorption. <i>Chemical Communications</i> , 2010 , 46, 2379-81	5.8	52
148	Undoped Layered Perovskite Oxynitride Li LaTa O N for Photocatalytic CO Reduction with Visible Light. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8154-8158	16.4	51
147	Dependence of Activity and Stability of Germanium Nitride Powder for Photocatalytic Overall Water Splitting on Structural Properties. <i>Chemistry of Materials</i> , 2007 , 19, 4092-4097	9.6	50
146	A Z-scheme photocatalyst constructed with an yttrium-tantalum oxynitride and a binuclear Ru(ii) complex for visible-light CO ₂ reduction. <i>Chemical Communications</i> , 2016 , 52, 7886-9	5.8	49
145	Photoresponse of GaN:ZnO Electrode on FTO under Visible Light Irradiation. <i>Bulletin of the Chemical Society of Japan</i> , 2009 , 82, 401-407	5.1	48
144	Development of Cocatalysts for Photocatalytic Overall Water Splitting on (Ga _{1-x} Zn _x)(N _{1-x} O _x) Solid Solution. <i>Catalysis Surveys From Asia</i> , 2007 , 11, 145-157	2.8	48
143	Preparation of a colloidal array of NaTaO ₃ nanoparticles via a confined space synthesis route and its photocatalytic application. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 2563-70	3.6	47
142	Isotopic and kinetic assessment of photocatalytic water splitting on Zn-added Ga ₂ O ₃ photocatalyst loaded with Rh ₂ (CryO ₃) cocatalyst. <i>Chemical Physics Letters</i> , 2010 , 486, 144-146	2.5	47
141	Development of hybrid photocatalysts constructed with a metal complex and graphitic carbon nitride for visible-light-driven CO reduction. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 4938-4950	3.6	46
140	Effect of Hydrogen and Oxygen Evolution Cocatalysts on Photocatalytic Activity of GaN:ZnO. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 767-772	2.3	46
139	Preparation of BaZrO ₃ /BaTaO ₂ N solid solutions and the photocatalytic activities for water reduction and oxidation under visible light. <i>Journal of Catalysis</i> , 2014 , 310, 67-74	7.3	46
138	Cobalt Oxide Nanoclusters on Rutile Titania as Bifunctional Units for Water Oxidation Catalysis and Visible Light Absorption: Understanding the Structure-Activity Relationship. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6114-6122	9.5	45
137	Lanthanoid Oxide Layers on Rhodium-Loaded (Ga _{1-x} Zn _x)(N _{1-x} O _x) Photocatalyst as a Modifier for Overall Water Splitting under Visible-Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 14000-14006	3.8	45
136	Robust Binding between Carbon Nitride Nanosheets and a Binuclear Ruthenium(II) Complex Enabling Durable, Selective CO ₂ Reduction under Visible Light in Aqueous Solution. <i>Angewandte Chemie</i> , 2017 , 129, 4945-4949	3.6	44

135	Photocatalytic properties of rutile TiO ₂ powder for overall water splitting. <i>Catalysis Science and Technology</i> , 2014 , 4, 1949-1953	5.5	44
134	Structural and Band Gap Investigation of GaN:ZnO Heterojunction Solid Solution Photocatalyst Probed by Soft X-ray Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7694-7700	3.8	44
133	Modification of oxysulfides with two nanoparticulate cocatalysts to achieve enhanced hydrogen production from water with visible light. <i>Chemical Communications</i> , 2010 , 46, 7313-5	5.8	44
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