

Ryu Abe

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

175 papers	14,397 citations	58 h-index	119 g-index
191 ext. papers	15,692 ext. citations	8.1 avg, IF	6.89 L-index

#	Paper	IF	Citations
175	Manipulation of charge carrier flow in BiNbOCl nanoplate photocatalyst with metal loading.. <i>Chemical Science</i> , 2022 , 13, 3118-3128	9.4	4
174	Visible-light-induced hydrogen evolution from water on hybrid photocatalysts consisting of synthetic chlorophyll-a derivatives with a carboxy group in the 20-substituent adsorbed on semiconductors. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022 , 426, 113750	4.7	1
173	Cobalt hexacyanoferrate as an effective cocatalyst boosting water oxidation on oxynitride TaON photocatalyst under visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022 , 426, 113753	4.7	1
172	Two-Dimensional MetalOrganic Framework Acts as a Hydrogen Evolution Cocatalyst for Overall Photocatalytic Water Splitting. <i>ACS Catalysis</i> , 2022 , 12, 3881-3889	13.1	4
171	Effects of incorporation of Ag into a kesterite CuZnSnS thin film on its photoelectrochemical properties for water reduction.. <i>Physical Chemistry Chemical Physics</i> , 2021 , 24, 468-476	3.6	2
170	Developing sustainable, high-performance perovskites in photocatalysis: design strategies and applications. <i>Chemical Society Reviews</i> , 2021 ,	58.5	10
169	Layered Perovskite Oxyiodide with Narrow Band Gap and Long Lifetime Carriers for Water Splitting Photocatalysis. <i>Journal of the American Chemical Society</i> , 2021 , 143, 8446-8453	16.4	19
168	A pressure-assisted low temperature sintering of particulate bismuth chalcogenides BiSX (X = Br, I) for fabricating efficient photoelectrodes with porous structures. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 413, 113264	4.7	2
167	Z-Scheme Overall Water Splitting Using ZnxCd1-xSe Particles Coated with Metal Cyanoferrates as Hydrogen Evolution Photocatalysts. <i>ACS Catalysis</i> , 2021 , 11, 8004-8014	13.1	8
166	Visible-Light-Responsive Oxyhalide PbBiOCl Photoelectrode: On-Site Flux Synthesis on a Fluorine-Doped Tin Oxide Electrode. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5176-5183	9.5	2
165	A new lead-free Sillbi Aurivillius oxychloride Bi5SrTi3O14Cl with triple-perovskite layers for photocatalytic water splitting under visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 408, 113095	4.7	3
164	Durable photoelectrochemical CO2 reduction with water oxidation using a visible-light driven molecular photocathode. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1517-1529	13	15
163	Supramolecular photocatalysts fixed on the inside of the polypyrrole layer in dye sensitized molecular photocathodes: application to photocatalytic CO reduction coupled with water oxidation. <i>Chemical Science</i> , 2021 , 12, 13216-13232	9.4	7
162	Synthesis, band structure and photocatalytic properties of Sillbi Aurivillius oxychlorides BaBi5Ti3O14Cl, Ba2Bi5Ti4O17Cl and Ba3Bi5Ti5O20Cl with triple-, quadruple- and quintuple-perovskite layers. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 8332-8340	13	7
161	RhO cocatalyst for efficient water oxidation over TaON photoanodes in wide pH range under visible-light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 419, 113463	4.7	4
160	BiOCl (= Ba, Sr, Ca) with Double and Triple Fluorite Layers for Visible-Light Water Splitting. <i>Inorganic Chemistry</i> , 2021 , 60, 15667-15674	5.1	2
159	In situ Blue titania via band shape engineering for exceptional solar H2 production in rutile TiO2. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120380	21.8	28

158	Conduction Band Control of Oxyhalides with a Triple-Fluorite Layer for Visible Light Photocatalysis. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2491-2499	16.4	20
157	Earth-abundant iron(III) species serves as a cocatalyst boosting the multielectron reduction of IO ₃ ⁻ /I ⁻ redox shuttle in Z-scheme photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11718-11725	13	3
156	PbBi ₃ O ₄ X ₃ (X = Cl, Br) with Single/Double Halogen Layers as a Photocatalyst for Visible-Light-Driven Water Splitting: Impact of a Halogen Layer on the Band Structure and Stability. <i>Chemistry of Materials</i> , 2021 , 33, 9580-9587	9.6	3
155	Triple-layered Sillitoe Aurivillius Perovskite Oxychloride Bi ₅ PbTi ₃ O ₁₄ Cl as a Visible-light-responsive Photocatalyst for Water Splitting. <i>Chemistry Letters</i> , 2020 , 49, 978-981	1.7	6
154	Exploring the Relationship between Effective Mass, Transient Photoconductivity, and Photocatalytic Activity of Sr _x Pb _{1-x} BiO ₂ Cl (x = 0-1) Oxyhalides. <i>Chemistry of Materials</i> , 2020 , 32, 4166-4173	9.6	12
153	Identification of Prime Factors to Maximize the Photocatalytic Hydrogen Evolution of Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9752-9762	16.4	55
152	Domain observation in the visible-light photocatalyst Bi ₄ NbO ₈ Br with the layered perovskite structure. <i>Applied Physics Express</i> , 2020 , 13, 091004	2.4	0
151	Photoconductivity Lifetime Product Correlates Well with the Photocatalytic Activity of Oxyhalides Bi ₄ TaO ₈ Cl and PbBiO ₂ Cl: An Approach to Boost Their O ₂ Evolution Rates. <i>ACS Energy Letters</i> , 2019 , 4, 1572-1578	20.1	21
150	Demonstrator devices for artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019 , 215, 345-363	3.6	1
149	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
148	Complex Photoconductivity Reveals How the Nonstoichiometric Sr/Ti Affects the Charge Dynamics of a SrTiO Photocatalyst. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1986-1991	6.4	11
147	Effective strategy for enhancing Z-scheme water splitting with the IO ₃ ⁻ /I ⁻ redox mediator by using a visible light responsive TaON photocatalyst co-loaded with independently optimized two different cocatalysts. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 1501-1508	5.8	12
146	Band Engineering of Double-Layered Sillitoe Aurivillius Perovskite Oxychlorides for Visible-Light-Driven Water Splitting. <i>Chemistry of Materials</i> , 2019 , 31, 3419-3429	9.6	32
145	Flux Synthesis of Layered Oxyhalide BiNbOCl Photocatalyst for Efficient Z-Scheme Water Splitting Under Visible Light. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5642-5650	9.5	58
144	Extended layer-by-layer Madelung potential analysis of layered oxyhalide photocatalysts and other layered systems. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19846-19851	13	6
143	Fe/Ru Oxide as a Versatile and Effective Cocatalyst for Boosting Z-Scheme Water-Splitting: Suppressing Undesirable Backward Electron Transfer. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45606-45611	9.5	7
142	Application of carbon microfiber felts as three-dimensional conductive substrate for efficient photoanodes of tungsten(VI) oxide. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 375, 54-63	4.7	2
141	Mimicking Natural Photosynthesis: Solar to Renewable H Fuel Synthesis by Z-Scheme Water Splitting Systems. <i>Chemical Reviews</i> , 2018 , 118, 5201-5241	68.1	497

140	New rare earth hafnium oxynitride perovskites with photocatalytic activity in water oxidation and reduction. <i>Chemical Communications</i> , 2018 , 54, 1525-1528	5.8	28
139	Molybdenum-substituted polyoxometalate as stable shuttle redox mediator for visible light driven Z-scheme water splitting system. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 356, 347-354	4.7	13
138	The first example of an oxide semiconductor photocatalyst consisting of a heptavalent cation: visible-light-induced water oxidation on M3ReO8. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1991-1994	13	2
137	Strong hybridization between Bi-6s and O-2p orbitals in Sillarsaurivillius perovskite Bi4MO8X (M = Nb, Ta; X = Cl, Br), visible light photocatalysts enabling stable water oxidation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3100-3107	13	70
136	Improved water oxidation under visible light on oxyhalide Bi4MO8X (M = Nb, Ta; X = Cl, Br) photocatalysts prepared using excess halogen precursors. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 1474-1480	5.8	23
135	Improved visible-light activity of nitrogen-doped layered niobate photocatalysts by NH3-nitridation with KCl flux. <i>Applied Catalysis B: Environmental</i> , 2018 , 232, 49-54	21.8	17
134	Oriented Growth of Sc-Doped Ta3N5 Nanorod Photoanode Achieving Low-Onset-Potential for Photoelectrochemical Water Oxidation. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4150-4157	6.1	32
133	Single Crystal Growth of Sillarsaurivillius Perovskite Oxyhalides Bi4NbO8X (X = Cl, Br). <i>Inorganics</i> , 2018 , 6, 41	2.9	7
132	Lead Bismuth Oxyhalides PbBiO2X (X = Cl, Br) as Visible-Light-Responsive Photocatalysts for Water Oxidation: Role of Lone-Pair Electrons in Valence Band Engineering. <i>Chemistry of Materials</i> , 2018 , 30, 5862-5869	9.6	62
131	Improved Activity of Hydrothermally-prepared WO3 Photocatalysts by Sodium Salt Additives. <i>Chemistry Letters</i> , 2018 , 47, 985-988	1.7	4
130	Developments and Trends of the Photocatalyst ~Environmental Purification. <i>Journal of the Institute of Electrical Engineers of Japan</i> , 2018 , 138, 602-605	0	
129	Enhanced H2 Evolution on ZnIn2S4 Photocatalyst under Visible Light by Surface Modification with Metal Cyanoferrates. <i>Chemistry Letters</i> , 2018 , 47, 941-944	1.7	9
128	Two-step synthesis of Sillarsaurivillius type oxychlorides to enhance their photocatalytic activity for visible-light-induced water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10909-10917	13	33
127	Sillarsaurivillius-related Oxychloride Bi6NbWO14Cl as a Stable O2-evolving Photocatalyst in Z-scheme Water Splitting under Visible Light. <i>Chemistry Letters</i> , 2017 , 46, 583-586	1.7	21
126	Enhanced oxygen evolution on visible light responsive TaON photocatalysts co-loaded with highly active Ru species for IO3 ⁻ reduction and Co species for water oxidation. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 748-754	5.8	13
125	Tungstic acids H2WO4 and H4WO5 as stable photocatalysts for water oxidation under visible light. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10280-10288	13	23
124	Surface-modified metal sulfides as stable H2-evolving photocatalysts in Z-scheme water splitting with a [Fe(CN)6]3-/4 ⁻ redox mediator under visible-light irradiation. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1065-1073	5.8	29
123	Highly Dispersed RuO2 Hydrates Prepared via Simple Adsorption as Efficient Cocatalysts for Visible-Light-Driven Z-Scheme Water Splitting with an IO3 ⁻ /I ⁻ Redox Mediator. <i>ACS Catalysis</i> , 2017 , 7, 4336-4343	13.1	33

122	Valence Band Engineering by a Layer Insertion to Sillars Aurivillius Perovskite Oxyhalides. <i>Chemistry Letters</i> , 2017 , 46, 1083-1085	1.7	4
121	Fabrication of CuInS ₂ photocathodes on carbon microfiber felt by arc plasma deposition for efficient water splitting under visible light. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 699-709	5.8	6
120	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
119	Development of Visible Light Responsive Photocatalysts for Solar Hydrogen Production. <i>Hyomen Kagaku</i> , 2017 , 38, 274-279		
118	Valence Band Engineering of Layered Bismuth Oxyhalides toward Stable Visible-Light Water Splitting: Madelung Site Potential Analysis. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18725-18731	16.4	95
117	Improved Photocatalytic Water Oxidation with Fe ³⁺ /Fe ²⁺ Redox on Rectangular-shaped WO ₃ Particles with Specifically Exposed Crystal Faces via Hydrothermal Synthesis. <i>Chemistry Letters</i> , 2017 , 46, 221-224	1.7	15
116	Dehydrogenative synthesis of benzimidazoles under mild conditions with supported iridium catalysts. <i>Catalysis Science and Technology</i> , 2016 , 6, 1677-1684	5.5	47
115	Design of nitrogen-doped layered tantalates for non-sacrificial and selective hydrogen evolution from water under visible light. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14444-14452	13	21
114	ZnTaON: Stabilized High-Temperature LiNbO ₃ -type Structure. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15950-15955	16.4	22
113	Z-scheme Water Splitting into H ₂ and O ₂ under Visible Light over Photocatalyst Panels Consisting of Rh-doped SrTiO ₃ and BiVO ₄ Fine Particles. <i>Chemistry Letters</i> , 2016 , 45, 57-59	1.7	13
112	Manganese-Substituted Polyoxometalate as an Effective Shuttle Redox Mediator in Z-Scheme Water Splitting under Visible Light. <i>ChemSusChem</i> , 2016 , 9, 2201-8	8.3	43
111	Solar Water Oxidation by Multicomponent TaON Photoanodes Functionalized with Nickel Oxide. <i>ChemPlusChem</i> , 2016 , 81, 1107-1115	2.8	3
110	Low-Temperature Synthesis of Bismuth Chalcogenides: Candidate Photovoltaic Materials with Easily, Continuously Controllable Band gap. <i>Scientific Reports</i> , 2016 , 6, 32664	4.9	30
109	Fabrication of a porous ZnRh ₂ O ₄ photocathode for photoelectrochemical water splitting under visible light irradiation and a significant effect of surface modification by ZnO necking treatment. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6116-6123	13	12
108	Layered Perovskite Oxychloride Bi ₄ NbO ₈ Cl: A Stable Visible Light Responsive Photocatalyst for Water Splitting. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2082-5	16.4	265
107	Preparation of fine particles of sheelite-monoclinic phase BiVO ₄ via an aqueous chelating method for efficient photocatalytic oxygen evolution under visible-light irradiation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3926-3932	13	16
106	Partial Oxidation of Alcohols on Visible-Light-Responsive WO ₃ Photocatalysts Loaded with Palladium Oxide Cocatalyst. <i>ACS Catalysis</i> , 2016 , 6, 1134-1144	13.1	107
105	Photo-assisted electrodeposition of manganese oxide on TaON anodes: effect on water photooxidation capacity under visible light irradiation. <i>Catalysis Science and Technology</i> , 2016 , 6, 3745-3757	5.5	15

104	Structure-controlled porous films of nanoparticulate Rh-doped SrTiO ₃ photocatalyst toward efficient H ₂ evolution under visible light irradiation. <i>Catalysis Science and Technology</i> , 2016 , 6, 254-260	5.5	6
103	Porous TaON Photoanodes Loaded with Cobalt-Based Cocatalysts for Efficient and Stable Water Oxidation Under Visible Light. <i>Topics in Catalysis</i> , 2016 , 59, 740-749	2.3	12
102	Highly Dispersed Cobalt Oxide on TaON as Efficient Photoanodes for Long-Term Solar Water Splitting. <i>ACS Catalysis</i> , 2016 , 6, 3404-3417	13.1	57
101	Z-Scheme Water Splitting into H ₂ and O ₂ Under Visible Light. <i>Nanostructure Science and Technology</i> , 2016 , 443-461	0.9	
100	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
99	Two-step photocatalytic water splitting into H ₂ and O ₂ using layered metal oxide KCa ₂ Nb ₃ O ₁₀ and its derivatives as O ₂ -evolving photocatalysts with IO ₃ ⁻ /I ⁻ or Fe ³⁺ /Fe ²⁺ redox mediator. <i>Catalysis Science and Technology</i> , 2015 , 5, 2640-2648	5.5	41
98	Facile water-based preparation of Rh-doped SrTiO ₃ nanoparticles for efficient photocatalytic H ₂ evolution under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14794-14800	13	27
97	Phosphine-stabilized, oxide-supported rhodium catalysts for highly efficient silylative coupling reactions. <i>Research on Chemical Intermediates</i> , 2015 , 41, 9575-9586	2.8	4
96	Photosplitting of Water from Wide-Gap Cu(In,Ga)S ₂ Thin Films Modified with a CdS Layer and Pt Nanoparticles for a High-Onset-Potential Photocathode. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 8576-8583	3.8	68
95	Fabrication of cation-doped BaTaO ₂ N photoanodes for efficient photoelectrochemical water splitting under visible light irradiation. <i>APL Materials</i> , 2015 , 3, 104418	5.7	30
94	Facile preparation of stable aqueous titania sols for fabrication of highly active TiO ₂ photocatalyst films. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1688-1695	13	33
93	MnTaO ₂ N: polar LiNbO ₃ -type oxynitride with a helical spin order. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 516-21	16.4	22
92	Solvothermal Synthesis of Ca ₂ Nb ₂ O ₇ Fine Particles and Their High Activity for Photocatalytic Water Splitting into H ₂ and O ₂ under UV Light Irradiation. <i>Chemistry Letters</i> , 2015 , 44, 1001-1003	1.7	11
91	Z-scheme Water Splitting into H ₂ and O ₂ Using Tungstic Acid as an Oxygen-evolving Photocatalyst under Visible Light Irradiation. <i>Chemistry Letters</i> , 2015 , 44, 1134-1136	1.7	10
90	Optimization of Titania Post-Necking Treatment of TaON Photoanodes to Enhance Water-Oxidation Activity under Visible-Light Irradiation. <i>ChemElectroChem</i> , 2015 , 2, 1270-1278	4.3	14
89	MnTaO ₂ N: Polar LiNbO ₃ -type Oxynitride with a Helical Spin Order. <i>Angewandte Chemie</i> , 2015 , 127, 526-531	5.3	9
88	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
87	Bimodal cesium hydrogen salts of 12-tungstosilicic acid, Cs ₄ H ₄ SiW ₁₂ O ₄₀ , as highly active solid acid catalysts for transesterification of glycerol tributyrat with methanol. <i>Journal of Catalysis</i> , 2014 , 318, 34-42	7.3	20

86	Highly selective phenol production from benzene on a platinum-loaded tungsten oxide photocatalyst with water and molecular oxygen: selective oxidation of water by holes for generating hydroxyl radical as the predominant source of the hydroxyl group. <i>Catalysis Science and Technology</i> , 2014 , 4, 3850-3860	5.5	57
85	Facile Fabrication of Photoanodes of Tungsten(VI) Oxide on Carbon Microfiber Felts for Efficient Water Oxidation under Visible Light. <i>Chemistry Letters</i> , 2014 , 43, 1195-1197	1.7	8
84	Catalytic Properties of Mn-Modified Hexagonal YbFeO ₃ : Noble-metal-free Combustion Catalysts. <i>Chemistry Letters</i> , 2014 , 43, 874-876	1.7	8
83	Combinational effect of Pt/SrTiO ₃ :Rh photocatalyst and SnPd/Al ₂ O ₃ non-photocatalyst for photocatalytic reduction of nitrate to nitrogen in water under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2014 , 144, 721-729	21.8	32
82	Fabrication of an efficient BaTaO ₂ N photoanode harvesting a wide range of visible light for water splitting. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10238-41	16.4	173
81	Z-Scheme Type Water Splitting into H ₂ and O ₂ Under Visible Light Through Two-Step Photoexcitation Between Two Different Photocatalysts 2013 , 341-370		2
80	Visible-light-induced water splitting based on two-step photoexcitation between dye-sensitized layered niobate and tungsten oxide photocatalysts in the presence of a triiodide/iodide shuttle redox mediator. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16872-84	16.4	203
79	Highly stable water splitting on oxynitride TaON photoanode system under visible light irradiation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6968-71	16.4	347
78	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
77	Highly effective photocatalytic system comprising semiconductor photocatalyst and supported bimetallic non-photocatalyst for selective reduction of nitrate to nitrogen in water. <i>Catalysis Communications</i> , 2012 , 20, 99-102	3.2	38
76	Development of Efficient Solar Light Energy Conversion Systems for Sustainable Society. <i>Trends in the Sciences</i> , 2012 , 17, 1_61-1_65	0	
75	Fabrication of efficient TaON and Ta ₃ N ₅ photoanodes for water splitting under visible light irradiation. <i>Energy and Environmental Science</i> , 2011 , 4, 4138	35.4	291
74	Direct Synthesis of Phenol from Benzene over Platinum-loaded Tungsten(VI) Oxide Photocatalysts with Water and Molecular Oxygen. <i>Chemistry Letters</i> , 2011 , 40, 1405-1407	1.7	30
73	Preparation of Crystalline Tungsten Oxide Nanorods with Enhanced Photocatalytic Activity under Visible Light Irradiation. <i>Chemistry Letters</i> , 2011 , 40, 443-445	1.7	18
72	Development of a New System for Photocatalytic Water Splitting into H ₂ and O ₂ under Visible Light Irradiation. <i>Bulletin of the Chemical Society of Japan</i> , 2011 , 84, 1000-1030	5.1	118
71	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
70	Overall water splitting under visible light through a two-step photoexcitation between TaON and WO ₃ in the presence of an iodate-iodide shuttle redox mediator. <i>ChemSusChem</i> , 2011 , 4, 228-37	8.3	22
69	Inside Cover: Overall Water Splitting under Visible Light through a Two-Step Photoexcitation between TaON and WO ₃ in the Presence of an Iodate/Iodide Shuttle Redox Mediator (ChemSusChem 2/2011). <i>ChemSusChem</i> , 2011 , 4, 154-154	8.3	86

68	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
67	Highly selective ammonia synthesis from nitrate with photocatalytically generated hydrogen on CuPd/TiO ₂ . <i>Journal of the American Chemical Society</i> , 2011 , 133, 1150-2	16.4	84
66	Ta ₃ N ₅ photoanodes for water splitting prepared by sputtering. <i>Thin Solid Films</i> , 2011 , 519, 2087-2092	2.2	130
65	Selective Ethylene Glycol Oxidation Reaction for Carbon Neutral Energy Cycle System. <i>ECS Transactions</i> , 2011 , 41, 1755-1759	1	10
64	Facile fabrication of an efficient oxynitride TaON photoanode for overall water splitting into H ₂ and O ₂ under visible light irradiation. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11828-9	16.4	410
63	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
62	Preparation of 3-D ordered macroporous tungsten oxides and nano-crystalline particulate tungsten oxides using a colloidal crystal template method, and their structural characterization and application as photocatalysts under visible light irradiation. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1811		125
61	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
60	What Are Titania Photocatalysts? An Exploratory Correlation of Photocatalytic Activity with Structural and Physical Properties. <i>Journal of Advanced Oxidation Technologies</i> , 2010 , 13,		16
59	Visible-light-induced photocatalysis through surface plasmon excitation of gold on titania surfaces. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 2344-55	3.6	457
58	Recent progress on photocatalytic and photoelectrochemical water splitting under visible light irradiation. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2010 , 11, 179-209	16.4	892
57	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
56	Photocatalytic Overall Water Splitting under Visible Light Using ATaO ₂ N (A = Ca, Sr, Ba) and WO ₃ in a IO ₃ ⁻ /I ⁻ Shuttle Redox Mediated System. <i>Chemistry of Materials</i> , 2009 , 21, 1543-1549	9.6	259
55	Robust dye-sensitized overall water splitting system with two-step photoexcitation of coumarin dyes and metal oxide semiconductors. <i>Chemical Communications</i> , 2009 , 3577-9	5.8	135
54	Visible light-induced photocatalytic reaction of gold-modified titanium(IV) oxide particles: action spectrum analysis. <i>Chemical Communications</i> , 2009 , 241-3	5.8	351
53	Correlation between Photocatalytic Activities and Structural and Physical Properties of Titanium(IV) Oxide Powders. <i>Chemistry Letters</i> , 2009 , 38, 238-239	1.7	219
52	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
51	Development of highly efficient visible light responsive photocatalysts based on tungsten oxide. <i>Journal of Japan Association on Odor Environment</i> , 2009 , 40, 93-100	0	1

50	Preparation and Characterization of Bismuth Tungstate Polycrystalline Flake-Ball Particles for Photocatalytic Reactions. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9320-9326	3.8	155
49	Preparation of nano-structured crystalline tungsten(vi) oxide and enhanced photocatalytic activity for decomposition of organic compounds under visible light irradiation. <i>Chemical Communications</i> , 2008 , 6552-4	5.8	95
48	Pristine simple oxides as visible light driven photocatalysts: highly efficient decomposition of organic compounds over platinum-loaded tungsten oxide. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7780-1	16.4	677
47	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
46	Photocatalytic Water Splitting into H ₂ and O ₂ over Titanate Pyrochlores Ln ₂ Ti ₂ O ₇ (Ln = Lanthanoid: Eu, Lu). <i>Bulletin of the Chemical Society of Japan</i> , 2008 , 81, 1315-1321	5.1	13
45	Z-scheme Overall Water Splitting on Modified-TaON Photocatalysts under Visible Light (I). <i>Chemistry Letters</i> , 2008 , 37, 138-139	1.7	149
44	Role of Molecular Oxygen in Photocatalytic Oxidative Decomposition of Acetic Acid by Metal Oxide Particulate Suspensions and Thin Film Electrodes. <i>Electrochemistry</i> , 2008 , 76, 147-149	1.2	16
43	In situ observation of photocatalytic reaction by photoacoustic spectroscopy: Detection of heat of exothermic photocatalytic reaction. <i>Chemical Physics Letters</i> , 2008 , 451, 316-320	2.5	11
42	Two step water splitting into H ₂ and O ₂ under visible light by ATaO ₂ N (A=Ca, Sr, Ba) and WO ₃ with . <i>Chemical Physics Letters</i> , 2008 , 452, 120-123	2.5	174
41	Heterodimeric particle assemblies: preparation of anisotropically connected spherical silica particles via surface-bound gold nanoparticles. <i>Chemical Communications</i> , 2007 , 3491-3	5.8	18
40	Double-Beam Photoacoustic Spectroscopic Studies on Transient Absorption of Titanium(IV) Oxide Photocatalyst Powders. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 11927-11935	3.8	79
39	Photoacoustic Spectroscopic Estimation of Electron Mobility in Titanium(IV) Oxide Photocatalysts. <i>Studies in Surface Science and Catalysis</i> , 2007 , 172, 429-432	1.8	4
38	Facile Hydrothermal Preparation and Photocatalytic Activity of Bismuth Tungstate Polycrystalline Flake-ball Particles. <i>Chemistry Letters</i> , 2007 , 36, 1314-1315	1.7	59
37	Photocatalytic activity of R ₃ MO ₇ and R ₂ Ti ₂ O ₇ (R=Y, Gd, La; M=Nb, Ta) for water splitting into H ₂ and O ₂ . <i>Journal of Physical Chemistry B</i> , 2006 , 110, 2219-26	3.4	248
36	Photoelectrochemical decomposition of water into H ₂ and O ₂ on porous BiVO ₄ thin-film electrodes under visible light and significant effect of Ag ion treatment. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 11352-60	3.4	471
35	Decomposition of water into H ₂ and O ₂ by a two-step photoexcitation reaction over a Pt/TiO ₂ photocatalyst in NaNO ₂ and Na ₂ CO ₃ aqueous solution. <i>Catalysis Communications</i> , 2006 , 7, 96-99	3.2	38
34	Is methylene blue an appropriate substrate for a photocatalytic activity test? A study with visible-light responsive titania. <i>Chemical Physics Letters</i> , 2006 , 429, 606-610	2.5	320
33	Photo-electrochemical properties of oxide semiconductors on porous titanium metal electrodes. <i>Solar Energy Materials and Solar Cells</i> , 2006 , 90, 2429-2437	6.4	7

32	Effect of Water/Acetonitrile Ratio on Dye-Sensitized Photocatalytic H ₂ Evolution under Visible Light Irradiation. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2005 , 127, 413-416	2.3	22
31	Photocatalytic overall water splitting under visible light by TaON and WO ₃ with an IO ₃ ⁻ /I ⁻ shuttle redox mediator. <i>Chemical Communications</i> , 2005 , 3829-31	5.8	276
30	Development of new photocatalytic water splitting into H ₂ and O ₂ using two different semiconductor photocatalysts and a shuttle redox mediator IO ₃ ⁻ /I ⁻ . <i>Journal of Physical Chemistry B</i> , 2005 , 109, 16052-61	3.4	285
29	Improvement of Photocatalytic Activity of Titanate Pyrochlore Y ₂ Ti ₂ O ₇ by Addition of Excess Y. <i>Chemistry Letters</i> , 2005 , 34, 1122-1123	1.7	33
28	The Use of TiCl ₄ Treatment to Enhance the Photocurrent in a TaON Photoelectrode under Visible Light Irradiation. <i>Chemistry Letters</i> , 2005 , 34, 1162-1163	1.7	76
27	Dye-Sensitized Photocatalyst System for Water Splitting Into H ₂ and O ₂ Under Visible Light Irradiation 2004 , 519		
26	Photoelectrochemical Decomposition of Water on Nanocrystalline BiVO ₄ Film Electrodes under Visible Light.. <i>ChemInform</i> , 2004 , 35, no		2
25	Dye-sensitized photocatalysts for efficient hydrogen production from aqueous I ₃ ⁻ /I ⁻ solution under visible light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 166, 115-122	4.7	90
24	Photocatalytic Water Splitting into H ₂ and O ₂ over R ₃ TaO ₇ and R ₃ NbO ₇ (R = Y, Yb, Gd, La): Effect of Crystal Structure on Photocatalytic Activity. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 811-814	3.4	97
23	Photocatalytic Water Splitting into H ₂ and O ₂ over R ₂ Ti ₂ O ₇ (R = Y, Rare Earth) with Pyrochlore Structure. <i>Chemistry Letters</i> , 2004 , 33, 954-955	1.7	56
22	Solar Hydrogen Production: Direct Water Splitting Into Hydrogen and Oxygen by New Photocatalysts Under Visible Light Irradiation 2003 , 175		
21	?????????????????????. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2003 , 54, 991-993	0.1	
20	Significant influence of solvent on hydrogen production from aqueous I ₃ ⁻ /I ⁻ redox solution using dye-sensitized Pt/TiO ₂ photocatalyst under visible light irradiation. <i>Chemical Physics Letters</i> , 2003 , 379, 230-235	2.5	58
19	Significant effect of iodide addition on water splitting into H ₂ and O ₂ over Pt-loaded TiO ₂ photocatalyst: suppression of backward reaction. <i>Chemical Physics Letters</i> , 2003 , 371, 360-364	2.5	145
18	Photoelectrochemical decomposition of water on nanocrystalline BiVO ₄ film electrodes under visible light. <i>Chemical Communications</i> , 2003 , 2908-9	5.8	235
17	29 Effect of 3d transition-metal (M) doping in In _{1-x} M _x TaO ₄ photocatalysts on water splitting under visible light irradiation. <i>Studies in Surface Science and Catalysis</i> , 2003 , 145, 165-168	1.8	2
16	A new photocatalytic water splitting system under visible light irradiation mimicking a Z-scheme mechanism in photosynthesis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002 , 148, 71-74	4.7	310
15	Efficient hydrogen evolution from aqueous mixture of I ₃ ⁻ and acetonitrile using a merocyanine dye-sensitized Pt/TiO ₂ photocatalyst under visible light irradiation. <i>Chemical Physics Letters</i> , 2002 , 362, 441-444	2.5	87

14	A new type of water splitting system composed of two different TiO ₂ photocatalysts (anatase, rutile) and a IO ₃ ⁻ /I ⁻ shuttle redox mediator. <i>Chemical Physics Letters</i> , 2001 , 344, 339-344	2.5	287
13	Stoichiometric water splitting into H ₂ and O ₂ using a mixture of two different photocatalysts and an IO ₃ ⁻ /I ⁻ shuttle redox mediator under visible light irradiation. <i>Chemical Communications</i> , 2001 , 2416-7	5.8	397
12	Ion-exchangeable thin films derived from a layered titanate, Cs _{0.68} Ti _{1.83} □ _{0.17} O ₄ (□:vacancy). <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 640-644	3.6	15
11	Steady hydrogen evolution from water on Eosin Y-fixed TiO ₂ photocatalyst using a silane-coupling reagent under visible light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000 , 137, 63-69	4.7	230
10	Preparation of SiO ₂ -pillared layered titanate thin films. <i>Journal of Materials Research</i> , 2000 , 15, 2587-2595	2.5	4
9	Novel methods for preparation of ion-exchangeable thin films. <i>Thin Solid Films</i> , 1999 , 343-344, 156-159	2.2	19
8	A microporous structure of a thin film made of an ion-exchangeable layered compound. <i>Supramolecular Science</i> , 1998 , 5, 229-233		9
7	Preparation of Ion-Exchangeable Thin Films of Layered Niobate K ₄ Nb ₆ O ₁₇ . <i>Chemistry of Materials</i> , 1998 , 10, 1647-1651	9.6	43
6	Preparation of Thin Films of a Layered Titanate by the Exfoliation of Cs _x Ti _(2-x/4) O ₄ . <i>Chemistry of Materials</i> , 1998 , 10, 329-333	9.6	51
5	Preparation of porous niobium oxide by the exfoliation of K ₄ Nb ₆ O ₁₇ and its photocatalytic activity. <i>Journal of Materials Research</i> , 1998 , 13, 861-865	2.5	52
4	Migration of Methyl Species of Surface Methoxy Groups on Ta-TMS ₁ . <i>Chemistry Letters</i> , 1998 , 27, 869-870	0.7	2
3	Preparation of Porous Niobium Oxides by Soft-Chemical Process and Their Photocatalytic Activity. <i>Chemistry of Materials</i> , 1997 , 9, 2179-2184	9.6	104
2	Interfacial Electron Flow Control by Double Nano-architectures for Efficient Ru-Dye-Sensitized Hydrogen Evolution from Water. <i>ACS Applied Energy Materials</i> ,	6.1	1
1	Controlling the Carrier Density in Niobium Oxynitride BaNbO ₂ N via Cation Doping for Efficient Photoelectrochemical Water Splitting under Visible Light. <i>Sustainable Energy and Fuels</i> ,	5.8	1