Ryu Abe

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

#	Paper	IF	Citations
175	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
174	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
173	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
172	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
171	Photoelectrochemical decomposition of water into H2 and O2 on porous BiVO4 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	47 ¹
170	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
169	Facile fabrication of an efficient oxynitride TaON photoanode for overall water splitting into H2 and O2 under visible light irradiation. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11828-9	16.4	410
168	Stoichiometric water splitting into H2 and O2 using a mixture of two different photocatalysts and an IO3-/I- shuttle redox mediator under visible light irradiation. <i>Chemical Communications</i> , 2001 , 2416-7	5.8	397
167	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
166	Highly stable water splitting on oxynitride TaON photoanode system under visible light irradiation. Journal of the American Chemical Society, 2012 , 134, 6968-71	16.4	347
165	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
164	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, 71-7	7 4·7	310
163	Fabrication of efficient TaON and Ta3N5 photoanodes for water splitting under visible light irradiation. <i>Energy and Environmental Science</i> , 2011 , 4, 4138	35.4	291
162	A new type of water splitting system composed of two different TiO2 photocatalysts (anatase, rutile) and a IO3/IIIshuttle redox mediator. <i>Chemical Physics Letters</i> , 2001 , 344, 339-344	2.5	287
161	Development of new photocatalytic water splitting into H2 and O2 using two different semiconductor photocatalysts and a shuttle redox mediator IO3-/I <i>Journal of Physical Chemistry B</i> , 2005 , 109, 16052-61	3.4	285
160	Photocatalytic overall water splitting under visible light by TaON and WO3 with an IO3-/I- shuttle redox mediator. <i>Chemical Communications</i> , 2005 , 3829-31	5.8	276
159	Layered Perovskite Oxychloride Bi4NbO8Cl: A Stable Visible Light Responsive Photocatalyst for Water Splitting. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2082-5	16.4	265

(2011-2009)

158	Photocatalytic Overall Water Splitting under Visible Light Using ATaO2N (A = Ca, Sr, Ba) and WO3 in a IO3 [In In I	9.6	259
157	Photocatalytic activity of R3MO7 and R2Ti2O7 (R=Y, Gd, La; M=Nb, Ta) for water splitting into H2 and O2. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 2219-26	3.4	248
156	Photoelectrochemical decomposition of water on nanocrystalline BiVO4 film electrodes under visible light. <i>Chemical Communications</i> , 2003 , 2908-9	5.8	235
155	Steady hydrogen evolution from water on Eosin Y-fixed TiO2 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
154	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
153	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
152	SrNbO2N 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
151	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
150	Two step water splitting into H2 and O2 under visible light by ATaO2N (A=Ca, Sr, Ba) and WO3 with . <i>Chemical Physics Letters</i> , 2008 , 452, 120-123	2.5	174
149	Fabrication of an efficient BaTaO2N 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
148	Modified Ta3N5 powder as a photocatalyst for O2 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
147	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
146	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
145	Z-scheme Overall Water Splitting on Modified-TaON Photocatalysts under Visible Light ([] <i>Chemistry Letters</i> , 2008 , 37, 138-139	1.7	149
144	Significant effect of iodide addition on water splitting into H2 and O2 over Pt-loaded TiO2 photocatalyst: suppression of backward reaction. <i>Chemical Physics Letters</i> , 2003 , 371, 360-364	2.5	145
143	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
142	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
141	Ta3N5 photoanodes for water splitting prepared by sputtering. <i>Thin Solid Films</i> , 2011 , 519, 2087-2092	2.2	130

140	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 ,		125
139	20, 1811 Photoelectrochemical CO2 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
138	Development of a New System for Photocatalytic Water Splitting into H2and O2under Visible Light Irradiation. <i>Bulletin of the Chemical Society of Japan</i> , 2011 , 84, 1000-1030	5.1	118
137	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
136	Partial Oxidation of Alcohols on Visible-Light-Responsive WO3 Photocatalysts Loaded with Palladium Oxide Cocatalyst. <i>ACS Catalysis</i> , 2016 , 6, 1134-1144	13.1	107
135	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
134	Photocatalytic Activity of (Ga1-xZnx)(N1-xOx) for Visible-Light-Driven H2 and O2 Evolution in the Presence of Sacrificial Reagents. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3447-3452	3.8	104
133	Photocatalytic Water Splitting into H2 and O2 over R3TaO7 and R3NbO7 (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
132	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-	1 893 1	95
131	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
130	Dye-sensitized photocatalysts for efficient hydrogen production from aqueous Ißolution under visible light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 166, 115-122	4.7	90
129	Efficient hydrogen evolution from aqueous mixture of Iland acetonitrile using a merocyanine dye-sensitized Pt/TiO2 photocatalyst under visible light irradiation. <i>Chemical Physics Letters</i> , 2002 , 362, 441-444	2.5	87
128	Inside Cover: Overall Water Splitting under Visible Light through a Two-Step Photoexcitation between TaON and WO3 in the Presence of an Iodatelbdide Shuttle Redox Mediator (ChemSusChem 2/2011). ChemSusChem, 2011, 4, 154-154	8.3	86
127	Highly selective ammonia synthesis from nitrate with photocatalytically generated hydrogen on CuPd/TiO2. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1150-2	16.4	84
126	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
125	The Use of TiCl4Treatment to Enhance the Photocurrent in a TaON Photoelectrode under Visible Light Irradiation. <i>Chemistry Letters</i> , 2005 , 34, 1162-1163	1.7	76
124	Strong hybridization between Bi-6s and O-2p orbitals in SillEAurivillius 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
123	Photosplitting of Water from Wide-Gap Cu(In,Ga)S2 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, 857	6 ² 8583	68

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122	Oxidation: Role of Lone-Pair Electrons in Valence Band Engineering. <i>Chemistry of Materials</i> , 2018 , 30, 5862-5869	9.6	62	
121	Effect of TiCl4 treatment on the photoelectrochemical properties of LaTiO2N electrodes for water splitting under visible light. <i>Thin Solid Films</i> , 2010 , 518, 5855-5859	2.2	62	
120	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	
119	Facile Hydrothermal Preparation and Photocatalytic Activity of Bismuth Tungstate Polycrystalline Flake-ball Particles. <i>Chemistry Letters</i> , 2007 , 36, 1314-1315	1.7	59	
118	Flux Synthesis of Layered Oxyhalide BiNbOCl Photocatalyst for Efficient Z-Scheme Water Splitting Under Visible Light. <i>ACS Applied Materials & Samp; Interfaces</i> , 2019 , 11, 5642-5650	9.5	58	
117	Significant influence of solvent on hydrogen production from aqueous I3/III dedox solution using dye-sensitized Pt/TiO2 photocatalyst under visible light irradiation. <i>Chemical Physics Letters</i> , 2003 , 379, 230-235	2.5	58	
116	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</i>	5.5	57	
115	Technology, 2014, 4, 3850-3860 Highly Dispersed Cobalt Oxide on TaON as Efficient Photoanodes for Long-Term Solar Water Splitting. ACS Catalysis, 2016, 6, 3404-3417	13.1	57	
114	Photocatalytic Water Splitting into H2and O2over R2Ti2O7(R = Y, Rare Earth) with Pyrochlore Structure. <i>Chemistry Letters</i> , 2004 , 33, 954-955	1.7	56	
113	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	
112	Preparation of porous niobium oxide by the exfoliation of K4Nb6O17 and its photocatalytic activity. <i>Journal of Materials Research</i> , 1998 , 13, 861-865	2.5	52	
111	Preparation of Thin Films of a Layered Titanate by the Exfoliation of CsxTi(2-x/4)x/4O4. <i>Chemistry of Materials</i> , 1998 , 10, 329-333	9.6	51	
110	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	
109	Dehydrogenative synthesis of benzimidazoles under mild conditions with supported iridium catalysts. <i>Catalysis Science and Technology</i> , 2016 , 6, 1677-1684	5.5	47	
108	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	
107	Preparation of Ion-Exchangeable Thin Films of Layered Niobate K4Nb6O17. <i>Chemistry of Materials</i> , 1998 , 10, 1647-1651	9.6	43	
106	Two-step photocatalytic water splitting into H2 and O2 using layered metal oxide KCa2Nb3O10 and its derivatives as O2-evolving photocatalysts with IO3/IIIbr Fe3+/Fe2+ redox mediator. <i>Catalysis Science and Technology</i> , 2015 , 5, 2640-2648	5.5	41	
105	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	

104	Decomposition of water into H2 and O2 by a two-step photoexcitation reaction over a PtIIiO2 photocatalyst in NaNO2 and Na2CO3 aqueous solution. <i>Catalysis Communications</i> , 2006 , 7, 96-99	3.2	38
103	Highly Dispersed RuO2 Hydrates Prepared via Simple Adsorption as Efficient Cocatalysts for Visible-Light-Driven Z-Scheme Water Splitting with an IO3/IRedox Mediator. <i>ACS Catalysis</i> , 2017 , 7, 4336-4343	13.1	33
102	Facile preparation of stable aqueous titania sols for fabrication of highly active TiO2 photocatalyst films. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1688-1695	13	33
101	Improvement of Photocatalytic Activity of Titanate Pyrochlore Y2Ti2O7by Addition of Excess Y. <i>Chemistry Letters</i> , 2005 , 34, 1122-1123	1.7	33
100	Two-step synthesis of Silla Aurivillius 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
99	Band Engineering of Double-Layered Sill Aurivillius Perovskite Oxychlorides for Visible-Light-Driven Water Splitting. <i>Chemistry of Materials</i> , 2019 , 31, 3419-3429	9.6	32
98	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
97	Combinational effect of Pt/SrTiO3:Rh photocatalyst and SnPd/Al2O3 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
96	Fabrication of cation-doped BaTaO2N photoanodes for efficient photoelectrochemical water splitting under visible light irradiation. <i>APL Materials</i> , 2015 , 3, 104418	5.7	30
95	Low-Temperature Synthesis of Bismuth Chalcohalides: Candidate Photovoltaic Materials with Easily, Continuously Controllable Band gap. <i>Scientific Reports</i> , 2016 , 6, 32664	4.9	30
94	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
93	Surface-modified metal sulfides as stable H2-evolving photocatalysts in Z-scheme water splitting with a [Fe(CN)6]3[Alredox mediator under visible-light irradiation. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1065-1073	5.8	29
92	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
91	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
90	Facile water-based preparation of Rh-doped SrTiO3 nanoparticles for efficient photocatalytic H2 evolution under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14794-14800	13	27
89	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
88	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, 1474-14	4 5 80	23
87	ZnTaON: Stabilized High-Temperature LiNbO-type Structure. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15950-15955	16.4	22

86	MnTaO2N: polar LiNbO3-type oxynitride with a helical spin order. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 516-21	16.4	22
85	Overall water splitting under visible light through a two-step photoexcitation between TaON and WO3 in the presence of an iodate-iodide shuttle redox mediator. <i>ChemSusChem</i> , 2011 , 4, 228-37	8.3	22
84	Effect of Water/Acetonitrile Ratio on Dye-Sensitized Photocatalytic H2 Evolution under Visible Light Irradiation. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2005 , 127, 413-416	2.3	22
83	SillfiAurivillius-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
82	PhotoconductivityIlifetime Product Correlates Well with the Photocatalytic Activity of Oxyhalides Bi4TaO8Cl and PbBiO2Cl: An Approach to Boost Their O2 Evolution Rates. <i>ACS Energy Letters</i> , 2019 , 4, 1572-1578	20.1	21
81	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
80	Bimodal cesium hydrogen salts of 12-tungstosilicic acid, Cs H4BiW12O40, as highly active solid acid catalysts for transesterification of glycerol tributyrate with methanol. <i>Journal of Catalysis</i> , 2014 , 318, 34-42	7.3	20
79	Conduction Band Control of Oxyhalides with a Triple-Fluorite Layer for Visible Light Photocatalysis. Journal of the American Chemical Society, 2021 , 143, 2491-2499	16.4	20
78	Novel methods for preparation of ion-exchangeable thin films. <i>Thin Solid Films</i> , 1999 , 343-344, 156-159	2.2	19
77	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
76	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
75	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
74	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
73	Preparation of fine particles of sheelite-monoclinic phase BiVO4via 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
72	What Are Titania Photocatalysts? In Exploratory Correlation of Photocatalytic Activity with Structural and Physical Properties. <i>Journal of Advanced Oxidation Technologies</i> , 2010 , 13,		16
71	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
70	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, 3745-3	7 57	15
69	Improved Photocatalytic Water Oxidation with Fe3+/Fe2+ Redox on Rectangular-shaped WO3 Particles with Specifically Exposed Crystal Faces via Hydrothermal Synthesis. <i>Chemistry Letters</i> , 2017 , 46, 221-224	1.7	15

68	Ion-exchangeable thin films derived from a layered titanate, Cs0.68Ti1.83?0.17O4 (?:vacancy). <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 640-644	3.6	15
67	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
66	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
65	Enhanced oxygen evolution on visible light responsive TaON photocatalysts co-loaded with highly active Ru species for IO3Ireduction and Co species for water oxidation. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 748-754	5.8	13
64	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
63	Z-scheme Water Splitting into H2 and O2 under Visible Light over Photocatalyst Panels Consisting of Rh-doped SrTiO3 and BiVO4 Fine Particles. <i>Chemistry Letters</i> , 2016 , 45, 57-59	1.7	13
62	Photocatalytic Water Splitting into H2and O2over Titanate Pyrochlores Ln2Ti2O7(Ln = Lanthanoid: Eu[lu). <i>Bulletin of the Chemical Society of Japan</i> , 2008 , 81, 1315-1321	5.1	13
61	Effective strategy for enhancing Z-scheme water splitting with the IO3/III redox mediator by using a visible light responsive TaON photocatalyst co-loaded with independently optimized two different cocatalysts. Sustainable Energy and Fuels, 2019, 3, 1501-1508	5.8	12
60	Exploring the Relationship between Effective Mass, Transient Photoconductivity, and Photocatalytic Activity of SrxPb1 \blacksquare BiO2Cl (x = 0 \blacksquare) Oxyhalides. <i>Chemistry of Materials</i> , 2020 , 32, 4166-41	7 3 .6	12
59	Fabrication of a porous ZnRh2O4 photocathode for photoelectrochemical water splitting under visible light irradiation and a significant effect of surface modification by ZnO necking treatment. Journal of Materials Chemistry A, 2016, 4, 6116-6123	13	12
58	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
57	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
56	Solvothermal Synthesis of Ca2Nb2O7 Fine Particles and Their High Activity for Photocatalytic Water Splitting into H2 and O2 under UV Light Irradiation. <i>Chemistry Letters</i> , 2015 , 44, 1001-1003	1.7	11
55	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
54	Z-scheme Water Splitting into H2 and O2 Using Tungstic Acid as an Oxygen-evolving Photocatalyst under Visible Light Irradiation. <i>Chemistry Letters</i> , 2015 , 44, 1134-1136	1.7	10
53	Selective Ethylene Glycol Oxidation Reaction for Carbon Neutral Energy Cycle System. <i>ECS Transactions</i> , 2011 , 41, 1755-1759	1	10
52	Developing sustainable, high-performance perovskites in photocatalysis: design strategies and applications. <i>Chemical Society Reviews</i> , 2021 ,	58.5	10
51	MnTaO2N: Polar LiNbO3-type Oxynitride with a Helical Spin Order. <i>Angewandte Chemie</i> , 2015 , 127, 526	5-5 ₃ 361	9

50	A microporous structure of a thin film made of an ion-exchangeable layered compound. <i>Supramolecular Science</i> , 1998 , 5, 229-233		9
49	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
48	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
47	Catalytic Properties of Mn-Modified Hexagonal YbFeO3: Noble-metal-free Combustion Catalysts. <i>Chemistry Letters</i> , 2014 , 43, 874-876	1.7	8
46	Z-Scheme Overall Water Splitting Using ZnxCd1⊠Se Particles Coated with Metal Cyanoferrates as Hydrogen Evolution Photocatalysts. <i>ACS Catalysis</i> , 2021 , 11, 8004-8014	13.1	8
45	Single Crystal Growth of SillEAurivillius Perovskite Oxyhalides Bi4NbO8X (X = Cl, Br). <i>Inorganics</i> , 2018 , 6, 41	2.9	7
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43	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
42	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
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40	Fabrication of CuInS2 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
39	Triple-layered SillfiAurivillius Perovskite Oxychloride Bi5PbTi3O14Cl as a Visible-light-responsive Photocatalyst for Water Splitting. <i>Chemistry Letters</i> , 2020 , 49, 978-981	1.7	6
38	Structure-controlled porous films of nanoparticulate Rh-doped SrTiO3 photocatalyst toward efficient H2 evolution under visible light irradiation. <i>Catalysis Science and Technology</i> , 2016 , 6, 254-260	5.5	6
37	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
36	Valence Band Engineering by a Layer Insertion to Silla urivillius Perovskite Oxyhalides. <i>Chemistry Letters</i> , 2017 , 46, 1083-1085	1.7	4
35	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
34	Improved Activity of Hydrothermally-prepared WO3 Photocatalysts by Sodium Salt Additives. <i>Chemistry Letters</i> , 2018 , 47, 985-988	1.7	4
33	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

32	Preparation of SiO2-pillared layered titanate thin films. <i>Journal of Materials Research</i> , 2000 , 15, 2587-25	5 2 05	4
31	Manipulation of charge carrier flow in BiNbOCl nanoplate photocatalyst with metal loading <i>Chemical Science</i> , 2022 , 13, 3118-3128	9.4	4
30	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
29	Two-Dimensional Metal©rganic Framework Acts as a Hydrogen Evolution Cocatalyst for Overall Photocatalytic Water Splitting. <i>ACS Catalysis</i> , 2022 , 12, 3881-3889	13.1	4
28	Solar Water Oxidation by Multicomponent TaON Photoanodes Functionalized with Nickel Oxide. <i>ChemPlusChem</i> , 2016 , 81, 1107-1115	2.8	3
27	A new lead-free Silli 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
26	Earth-abundant iron(III) species serves as a cocatalyst boosting the multielectron reduction of IO3/III redox shuttle in Z-scheme photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11718-11725	13	3
25	PbBi3O4X3 (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
24	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
23	Z-Scheme Type Water Splitting into H2 and O2 Under Visible Light Through Two-Step Photoexcitation Between Two Different Photocatalysts 2013 , 341-370		2
22	Photoelectrochemical Decomposition of Water on Nanocrystalline BiVO4 Film Electrodes under Visible Light <i>ChemInform</i> , 2004 , 35, no		2
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20	Migration of Methyl Species of Surface Methoxy Groups on Ta-TMS1. <i>Chemistry Letters</i> , 1998 , 27, 869-8	70 .7	2
19	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
18	A pressure-assisted low temperature sintering of particulate bismuth chalcohalides 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
17	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
16	Visible-Light-Responsive Oxyhalide PbBiOCl Photoelectrode: On-Site Flux Synthesis on a Fluorine-Doped Tin Oxide Electrode. <i>ACS Applied Materials & amp; Interfaces</i> , 2021 , 13, 5176-5183	9.5	2
15	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

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14	Demonstrator devices for artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019 , 215, 345-363	3.6	1
13	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
12	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
11	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
10	Controlling the Carrier Density in Niobium Oxynitride BaNbO2N via Cation Doping for Efficient Photoelectrochemical Water Splitting under Visible Light. <i>Sustainable Energy and Fuels</i> ,	5.8	1
9	Development of highly efficient visible light responsive photocatalysts based on tungsten oxide. Journal of Japan Association on Odor Environment, 2009, 40, 93-100	О	1
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2	Development of Efficient Solar Light Energy Conversion Systems for Sustainable Society. <i>Trends in the Sciences</i> , 2012 , 17, 1_61-1_65	0	
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