Kazuhiko Maeda

List of Publications by Year
in descending order

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265 papers	45,955 citations	3933 88 h-index	1755 212 g-index
288 all docs	288 docs citations	288 times ranked	25973 citing authors

#	Article	IF	Citations
1	A metal-free polymeric photocatalyst for hydrogen production from water under visibleÂlight. Nature Materials, 2009, 8, 76-80.	27.5	10,442
2	Photocatalyst releasing hydrogen from water. Nature, 2006, 440, 295-295.	27.8	2,627
3	Photocatalytic Water Splitting: Recent Progress and Future Challenges. Journal of Physical Chemistry Letters, 2010, 1, 2655-2661.	4.6	2,306
4	Polymer Semiconductors for Artificial Photosynthesis: Hydrogen Evolution by Mesoporous Graphitic Carbon Nitride with Visible Light. Journal of the American Chemical Society, 2009, 131, 1680-1681.	13.7	1,618
5	New Non-Oxide Photocatalysts Designed for Overall Water Splitting under Visible Light. Journal of Physical Chemistry C, 2007, 111, 7851-7861.	3.1	1,383
6	GaN:ZnO Solid Solution as a Photocatalyst for Visible-Light-Driven Overall Water Splitting. Journal of the American Chemical Society, 2005, 127, 8286-8287.	13.7	1,317
7	Synthesis of a Carbon Nitride Structure for Visibleâ€Light Catalysis by Copolymerization. Angewandte Chemie - International Edition, 2010, 49, 441-444.	13.8	1,312
8	Photocatalytic water splitting using semiconductor particles: History and recent developments. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2011, 12, 237-268.	11.6	1,027
9	Z-Scheme Water Splitting Using Two Different Semiconductor Photocatalysts. ACS Catalysis, 2013, 3, 1486-1503.	11.2	1,005
10	Visible Light Water Splitting Using Dye-Sensitized Oxide Semiconductors. Accounts of Chemical Research, 2009, 42, 1966-1973.	15.6	957
11	Sulfur-mediated synthesis of carbon nitride: Band-gap engineering and improved functions for photocatalysis. Energy and Environmental Science, 2011, 4, 675-678.	30.8	704
12	Photocatalytic Activities of Graphitic Carbon Nitride Powder for Water Reduction and Oxidation under Visible Light. Journal of Physical Chemistry C, 2009, 113, 4940-4947.	3.1	690
13	Efficient Nonsacrificial Water Splitting through Two-Step Photoexcitation by Visible Light using a Modified Oxynitride as a Hydrogen Evolution Photocatalyst. Journal of the American Chemical Society, 2010, 132, 5858-5868.	13.7	660
14	Expanding frontiers in materials chemistry and physics with multiple anions. Nature Communications, 2018, 9, 772.	12.8	612
15	Visibleâ€Lightâ€Driven CO₂ Reduction with Carbon Nitride: Enhancing the Activity of Ruthenium Catalysts. Angewandte Chemie - International Edition, 2015, 54, 2406-2409.	13.8	540
16	Noble-Metal/Cr2O3 Core/Shell Nanoparticles as a Cocatalyst for Photocatalytic Overall Water Splitting. Angewandte Chemie - International Edition, 2006, 45, 7806-7809.	13.8	537
17	Artificial Z-Scheme Constructed with a Supramolecular Metal Complex and Semiconductor for the Photocatalytic Reduction of CO₂. Journal of the American Chemical Society, 2013, 135, 4596-4599.	13.7	404
18	Nature-Inspired, Highly Durable CO₂ Reduction System Consisting of a Binuclear Ruthenium(II) Complex and an Organic Semiconductor Using Visible Light. Journal of the American Chemical Society, 2016, 138, 5159-5170.	13.7	403

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19	Ordered Mesoporous SBA-15 Type Graphitic Carbon Nitride: A Semiconductor Host Structure for Photocatalytic Hydrogen Evolution with Visible Light. Chemistry of Materials, 2009, 21, 4093-4095.	6.7	392
20	RuO2-Loaded Î²-Ge3N4as a Non-Oxide Photocatalyst for Overall Water Splitting. Journal of the American Chemical Society, 2005, 127, 4150-4151.	13.7	388
21	Overall Water Splitting on (Ga1-xZnx)(N1-xOx) Solid Solution Photocatalyst:Â Relationship between Physical Properties and Photocatalytic Activity. Journal of Physical Chemistry B, 2005, 109, 20504-20510.	2.6	384
22	Cobalt-Modified Porous Single-Crystalline LaTiO₂N for Highly Efficient Water Oxidation under Visible Light. Journal of the American Chemical Society, 2012, 134, 8348-8351.	13.7	382
23	Photocatalytic Overall Water Splitting Promoted by Two Different Cocatalysts for Hydrogen and Oxygen Evolution under Visible Light. Angewandte Chemie - International Edition, 2010, 49, 4096-4099.	13.8	356
24	Solid Solution of GaN and ZnO as a Stable Photocatalyst for Overall Water Splitting under Visible Light. Chemistry of Materials, 2010, 22, 612-623.	6.7	346
25	Photocatalytic Water Splitting Using Modified GaN:ZnO Solid Solution under Visible Light: Long-Time Operation and Regeneration of Activity. Journal of the American Chemical Society, 2012, 134, 8254-8259.	13.7	296
26	Effect of post-calcination on photocatalytic activity of (Ga1â^'Zn)(N1â^'O) solid solution for overall water splitting under visible light. Journal of Catalysis, 2008, 254, 198-204.	6.2	277
27	Photoelectrochemical Reduction of CO₂ Coupled to Water Oxidation Using a Photocathode with a Ru(II)â€"Re(I) Complex Photocatalyst and a CoO_{<i>x</i>}/TaON Photoanode. Journal of the American Chemical Society, 2016, 138, 14152-14158.	13.7	260
28	A polymeric-semiconductorâ€"metal-complex hybrid photocatalyst for visible-light CO2 reduction. Chemical Communications, 2013, 49, 10127.	4.1	252
29	Photocatalytic oxidation of water by polymeric carbon nitride nanohybrids made of sustainable elements. Chemical Science, 2012, 3, 443-446.	7.4	246
30	Role and Function of Noble-Metal/Cr-Layer Core/Shell Structure Cocatalysts for Photocatalytic Overall Water Splitting Studied by Model Electrodes. Journal of Physical Chemistry C, 2009, 113, 10151-10157.	3.1	238
31	Roles of Rh/Cr2O3(Core/Shell) Nanoparticles Photodeposited on Visible-Light-Responsive (Ga1-xZnx)(N1-xOx) Solid Solutions in Photocatalytic Overall Water Splitting. Journal of Physical Chemistry C, 2007, 111, 7554-7560.	3.1	230
32	Robust Binding between Carbon Nitride Nanosheets and a Binuclear Ruthenium(II) Complex Enabling Durable, Selective CO₂ Reduction under Visible Light in Aqueous Solution. Angewandte Chemie - International Edition, 2017, 56, 4867-4871.	13.8	223
33	Efficient Overall Water Splitting under Visible-Light Irradiation on (Ga1-xZnx)(N1-xOx) Dispersed with Rhâ^'Cr Mixed-Oxide Nanoparticles:Â Effect of Reaction Conditions on Photocatalytic Activity. Journal of Physical Chemistry B, 2006, 110, 13107-13112.	2.6	218
34	SrNbO₂N as a Water-Splitting Photoanode with a Wide Visible-Light Absorption Band. Journal of the American Chemical Society, 2011, 133, 12334-12337.	13.7	217
35	Synthesis and Photocatalytic Activity of Perovskite Niobium Oxynitrides with Wide Visibleâ€Light Absorption Bands. ChemSusChem, 2011, 4, 74-78.	6.8	216
36	Enhanced Water Oxidation on Ta₃N₅ Photocatalysts by Modification with Alkaline Metal Salts. Journal of the American Chemical Society, 2012, 134, 19993-19996.	13.7	206

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37	Efficient Visible-Light-Driven CO₂ Reduction by a Cobalt Molecular Catalyst Covalently Linked to Mesoporous Carbon Nitride. Journal of the American Chemical Society, 2020, 142, 6188-6195.	13.7	199
38	Improvement of photocatalytic activity of (Ga1â^'xZnx)(N1â^'xOx) solid solution for overall water splitting by co-loading Cr and another transition metal. Journal of Catalysis, 2006, 243, 303-308.	6.2	198
39	Metalâ€Complex/Semiconductor Hybrid Photocatalysts and Photoelectrodes for CO₂ Reduction Driven by Visible Light. Advanced Materials, 2019, 31, e1808205.	21.0	196
40	The effect of the pore-wall structure of carbon nitride on photocatalytic CO₂reduction under visible light. Journal of Materials Chemistry A, 2014, 2, 15146-15151.	10.3	192
41	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. Langmuir, 2010, 26, 9161-9165.	3.5	189
42	Characterization of Rhâ^'Cr Mixed-Oxide Nanoparticles Dispersed on (Ga1-xZnx)(N1-xOx) as a Cocatalyst for Visible-Light-Driven Overall Water Splitting. Journal of Physical Chemistry B, 2006, 110, 13753-13758.	2.6	180
43	Two-Dimensional Metal Oxide Nanosheets as Building Blocks for Artificial Photosynthetic Assemblies. Bulletin of the Chemical Society of Japan, 2019, 92, 38-54.	3.2	175
44	Role and Function of Ruthenium Species as Promoters with TaON-Based Photocatalysts for Oxygen Evolution in Two-Step Water Splitting under Visible Light. Journal of Physical Chemistry C, 2011, 115, 3057-3064.	3.1	174
45	Niobium Oxide Nanoscrolls as Building Blocks for Dye-Sensitized Hydrogen Production from Water under Visible Light Irradiation. Chemistry of Materials, 2008, 20, 6770-6778.	6.7	173
46	Direct Water Splitting into Hydrogen and Oxygen under Visible Light by using Modified TaON Photocatalysts with d⁰ Electronic Configuration. Chemistry - A European Journal, 2013, 19, 4986-4991.	3.3	160
47	A Carbon Nitride/Fe Quaterpyridine Catalytic System for Photostimulated CO₂-to-CO Conversion with Visible Light. Journal of the American Chemical Society, 2018, 140, 7437-7440.	13.7	160
48	Preparation of Coreâ€"Shellâ€Structured Nanoparticles (with a Nobleâ€Metal or Metal Oxide Core and a) Tj ETQq0 0 0 rgBT /Overlock 1 European Journal, 2010, 16, 7750-7759.	3.3	156
49	Photoelectrochemical water splitting using a Cu(In,Ga)Se2 thin film. Electrochemistry Communications, 2010, 12, 851-853.	4.7	156
50	Rhodium-Doped Barium Titanate Perovskite as a Stable p-Type Semiconductor Photocatalyst for Hydrogen Evolution under Visible Light. ACS Applied Materials & Interfaces, 2014, 6, 2167-2173.	8.0	154
51	Development of Novel Photocatalyst and Cocatalyst Materials for Water Splitting under Visible Light. Bulletin of the Chemical Society of Japan, 2016, 89, 627-648.	3.2	154
52	Visible-light-driven nonsacrificial water oxidation over tungsten trioxide powder modified with two different cocatalysts. Energy and Environmental Science, 2012, 5, 8390.	30.8	153
53	Photocatalytic Hydrogen Evolution from Hexaniobate Nanoscrolls and Calcium Niobate Nanosheets Sensitized by Ruthenium(II) Bipyridyl Complexes. Journal of Physical Chemistry C, 2009, 113, 7962-7969.	3.1	152
54	Aspects of the Water Splitting Mechanism on (Ga_{1â^'<i>x</i>}Zn_{<i>x</i>})(N_{1â^'<i>x</i>}O_{<i>x</i>}) Photocatalyst Modified with Rh_{2â^'<i>y</i>}Cr_{<i>y</i>}O₃ Cocatalyst. Journal of Physical Chemistry C, 2009, 113, 21458-21466.	3.1	143

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55	Solar-Driven Z-scheme Water Splitting Using Modified BaZrO₃â€“BaTaO₂N Solid Solutions as Photocatalysts. ACS Catalysis, 2013, 3, 1026-1033.	11.2	143
56	Water Splitting on Rutile TiO₂â€Based Photocatalysts. Chemistry - A European Journal, 2018, 24, 18204-18219.	3.3	142
57	Surface Modification of TaON with Monoclinic ZrO2 to Produce a Composite Photocatalyst with Enhanced Hydrogen Evolution Activity under Visible Light. Bulletin of the Chemical Society of Japan, 2008, 81, 927-937.	3.2	140
58	A Stable, Narrow-Gap Oxyfluoride Photocatalyst for Visible-Light Hydrogen Evolution and Carbon Dioxide Reduction. Journal of the American Chemical Society, 2018, 140, 6648-6655.	13.7	139
59	Ta3N5 photoanodes for water splitting prepared by sputtering. Thin Solid Films, 2011, 519, 2087-2092.	1.8	136
60	Hybrid photocathode consisting of a CuGaO₂ p-type semiconductor and a Ru(<scp>ii</scp>)â€“Re(<scp>i</scp>) supramolecular photocatalyst: non-biased visible-light-driven CO₂ reduction with water oxidation. Chemical Science, 2017, 8, 4242-4249.	7.4	136
61	Synthesis and Photocatalytic Activity of Poly(triazine imide). Chemistry - an Asian Journal, 2013, 8, 218-224.	3.3	131
62	Photoelectrochemical CO₂ reduction using a Ru(<scp>ii</scp>)â€“Re(<scp>i</scp>) multinuclear metal complex on a p-type semiconducting NiO electrode. Chemical Communications, 2015, 51, 10722-10725.	4.1	131
63	Photocatalytic Hydrogen Evolution from Water Using Copper Gallium Sulfide under Visible-Light Irradiation. Journal of Physical Chemistry C, 2010, 114, 11215-11220.	3.1	126
64	Water Oxidation Using a Particulate BaZrO₃â€BaTaO₂N Solidâ€Solution Photocatalyst That Operates under a Wide Range of Visible Light. Angewandte Chemie - International Edition, 2012, 51, 9865-9869.	13.8	125
65	Highly active tantalum(v) nitride nanoparticles prepared from a mesoporous carbon nitride template for photocatalytic hydrogen evolution under visible light irradiation. Journal of Materials Chemistry, 2010, 20, 4295.	6.7	122
66	Selective Formic Acid Production via CO₂ Reduction with Visible Light Using a Hybrid of a Perovskite Tantalum Oxynitride and a Binuclear Ruthenium(II) Complex. ACS Applied Materials & Interfaces, 2015, 7, 13092-13097.	8.0	120
67	Unique Solvent Effects on Visible-Light CO₂ Reduction over Ruthenium(II)-Complex/Carbon Nitride Hybrid Photocatalysts. ACS Applied Materials & Interfaces, 2016, 8, 6011-6018.	8.0	118
68	Intercalation of Highly Dispersed Metal Nanoclusters into a Layered Metal Oxide for Photocatalytic Overall Water Splitting. Angewandte Chemie - International Edition, 2015, 54, 2698-2702.	13.8	117
69	Comparison of two- and three-layer restacked Dionâ€“Jacobson phase niobate nanosheets as catalysts for photochemical hydrogen evolution. Journal of Materials Chemistry, 2009, 19, 4813.	6.7	116
70	A Redoxâ€Mediatorâ€Free Solarâ€Driven Zâ€Scheme Waterâ€Splitting System Consisting of Modified Ta₃N₅ as an Oxygenâ€Evolution Photocatalyst. Chemistry - A European Journal, 2013, 19, 7480-7486.	3.3	113
71	Characterization of Ruthenium Oxide Nanocluster as a Cocatalyst with (Ga1-xZnx)(N1-xOx) for Photocatalytic Overall Water Splitting. Journal of Physical Chemistry B, 2005, 109, 21915-21921.	2.6	110
72	Photocatalytic Activity of (Ga₁₋<i>_x</i>Zn<i>_x</i>)(N₁₋<i>_x</i>O<i>_x</i>) for Visible-Light-Driven H₂ and O₂ Evolution in the Presence of Sacrificial Reagents. Journal of Physical Chemistry C, 2008, 112, 3447-3452.	3.1	110

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73	Direct splitting of pure water into hydrogen and oxygen using rutile titania powder as a photocatalyst. Chemical Communications, 2013, 49, 8404.	4.1	106
74	Studies on TiN<i>_x</i>O<i>_y</i>F<i>_z</i> as a Visible-Light-Responsive Photocatalyst. Journal of Physical Chemistry C, 2007, 111, 18264-18270.	3.1	105
75	Highly dispersed noble-metal/chromia (core/shell) nanoparticles as efficient hydrogen evolution promoters for photocatalytic overall water splitting under visible light. Nanoscale, 2009, 1, 106.	5.6	105
76	Perovskite Oxide Nanosheets with Tunable Bandâ€Edge Potentials and High Photocatalytic Hydrogenâ€Evolution Activity. Angewandte Chemie - International Edition, 2014, 53, 13164-13168.	13.8	104
77	An Artificial Z-Scheme Constructed from Dye-Sensitized Metal Oxide Nanosheets for Visible Light-Driven Overall Water Splitting. Journal of the American Chemical Society, 2020, 142, 8412-8420.	13.7	103
78	Solar-driven Z-scheme water splitting using tantalum/nitrogen co-doped rutile titania nanorod as an oxygen evolution photocatalyst. Journal of Materials Chemistry A, 2017, 5, 11710-11719.	10.3	101
79	Oxynitride materials for solar water splitting. MRS Bulletin, 2011, 36, 25-31.	3.5	100
80	Photocatalytic Overall Water Splitting on Gallium Nitride Powder. Bulletin of the Chemical Society of Japan, 2007, 80, 1004-1010.	3.2	98
81	(Oxy)nitrides with d0-electronic configuration as photocatalysts and photoanodes that operate under a wide range of visible light for overall water splitting. Physical Chemistry Chemical Physics, 2013, 15, 10537.	2.8	97
82	Visible-light-driven CO₂ reduction on a hybrid photocatalyst consisting of a Ru(<scp>ii</scp>) binuclear complex and a Ag-loaded TaON in aqueous solutions. Chemical Science, 2016, 7, 4364-4371.	7.4	96
83	Photocatalytic Properties of RuO2-Loaded Î²-Ge3N4for Overall Water Splitting. Journal of Physical Chemistry C, 2007, 111, 4749-4755.	3.1	93
84	Visibleâ€Lightâ€Driven CO₂ Reduction with Carbon Nitride: Enhancing the Activity of Ruthenium Catalysts. Angewandte Chemie, 2015, 127, 2436-2439.	2.0	92
85	Oxidation of Water under Visibleâ€Light Irradiation over Modified BaTaO₂N Photocatalysts Promoted by Tungsten Species. Angewandte Chemie - International Edition, 2013, 52, 6488-6491.	13.8	91
86	Calcium Niobate Nanosheets Prepared by the Polymerized Complex Method as Catalytic Materials for Photochemical Hydrogen Evolution. Chemistry of Materials, 2009, 21, 3611-3617.	6.7	89
87	Synergistic Effect of Hydrochloric Acid and Phytic Acid Doping on Polyaniline-Coupled g-C₃N₄ Nanosheets for Photocatalytic Cr(VI) Reduction and Dye Degradation. ACS Applied Materials & Interfaces, 2019, 11, 35702-35712.	8.0	89
88	Earth-Abundant Molecular Z-Scheme Photoelectrochemical Cell for Overall Water-Splitting. Journal of the American Chemical Society, 2019, 141, 9593-9602.	13.7	84
89	Origin of Visible Light Absorption in GaN-Rich (Ga₁₋<i>_x</i>Zn<i>_x</i>)(N₁₋<i>_x</i>O<i> Photocatalysts. Journal of Physical Chemistry C, 2007, 111, 18853-18855.	3.1	83
90	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. ACS Catalysis, 2015, 5, 1700-1707.	11.2	83

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91	Effect of electrolyte addition on activity of (Ga1â^'Zn)(N1â^'O) photocatalyst for overall water splitting under visible light. Catalysis Today, 2009, 147, 173-178.	4.4	80
92	Crystal structure and optical properties of (Ga1â^'xZnx)(N1â^'xOx) oxynitride photocatalyst (x=0.13). Chemical Physics Letters, 2005, 416, 225-228.	2.6	79
93	Polyol Synthesis of Size-Controlled Rh Nanoparticles and Their Application to Photocatalytic Overall Water Splitting under Visible Light. Journal of Physical Chemistry C, 2013, 117, 2467-2473.	3.1	78
94	Highly efficient visible-light-driven CO₂ reduction to CO using a Ru(<scp>ii</scp>)â€"Re(<scp>i</scp>) supramolecular photocatalyst in an aqueous solution. Green Chemistry, 2016, 18, 139-143.	9.0	78
95	Modification of Wideâ€Bandâ€Gap Oxide Semiconductors with Cobalt Hydroxide Nanoclusters for Visibleâ€Light Water Oxidation. Angewandte Chemie - International Edition, 2016, 55, 8309-8313.	13.8	77
96	Overall water splitting using (oxy)nitride photocatalysts. Pure and Applied Chemistry, 2006, 78, 2267-2276.	1.9	76
97	A precursor route to prepare tantalum (V) nitride nanoparticles with enhanced photocatalytic activity for hydrogen evolution under visible light. Applied Catalysis A: General, 2009, 370, 88-92.	4.3	74
98	Preparation of (Ga1â^'xZnx) (N1â^'xOx) solid-solution from ZnGa2O4 and ZnO as a photo-catalyst for overall water splitting under visible light. Applied Catalysis A: General, 2007, 327, 114-121.	4.3	73
99	Nanoparticulate precursor route to fine particles of TaON and ZrO2â€"TaON solid solution and their photocatalytic activity for hydrogen evolution under visible light. Applied Catalysis A: General, 2009, 357, 206-212.	4.3	71
100	Gas phase photocatalytic water splitting with Rh2â^'yCryO3/GaN:ZnO in Î¼-reactors. Energy and Environmental Science, 2011, 4, 2937.	30.8	71
101	Simultaneous photodeposition of rhodiumâ€"chromiumnanoparticles on a semiconductor powder: structural characterization and application to photocatalytic overall water splitting. Energy and Environmental Science, 2010, 3, 471-478.	30.8	69
102	Interfacial Manipulation by Rutile TiO₂ Nanoparticles to Boost CO₂ Reduction into CO on a Metal-Complex/Semiconductor Hybrid Photocatalyst. ACS Applied Materials & Interfaces, 2017, 9, 23869-23877.	8.0	69
103	Photoluminescence Spectroscopic and Computational Investigation of the Origin of the Visible Light Response of (Ga_{1â^'<i>x</i>}Zn_{<i>x</i>})(N_{1â^'<i>x</i>}O_{<i>x</i>}) Photocatalyst for Overall Water Splitting. Journal of Physical Chemistry C, 2010, 114, 15510-15515.	3.1	68
104	Enhancement of photocatalytic activity of (Zn1+Ge)(N2O) for visible-light-driven overall water splitting by calcination under nitrogen. Chemical Physics Letters, 2008, 457, 134-136.	2.6	67
105	Undoped Layered Perovskite Oxynitride Li₂LaTa₂O₆N for Photocatalytic CO₂ Reduction with Visible Light. Angewandte Chemie - International Edition, 2018, 57, 8154-8158.	13.8	66
106	Effect of TiCl4 treatment on the photoelectrochemical properties of LaTiO2N electrodes for water splitting under visible light. Thin Solid Films, 2010, 518, 5855-5859.	1.8	65
107	Activation of BaTaO₂N Photocatalyst for Enhanced Nonâ€Sacrificial Hydrogen Evolution from Water under Visible Light by Forming a Solid Solution with BaZrO₃. Chemistry - A European Journal, 2011, 17, 14731-14735.	3.3	60
108	Effects of Interfacial Electron Transfer in Metal Complexâ€"Semiconductor Hybrid Photocatalysts on Z-Scheme CO₂ Reduction under Visible Light. ACS Catalysis, 2018, 8, 9744-9754.	11.2	60

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109	Synthesis and photocatalytic activity of galliumâ€"zincâ€"indium mixed oxynitride for hydrogen and oxygen evolution under visible light. Chemical Physics Letters, 2009, 470, 90-94.	2.6	59
110	Dependence of Activity of Rutile Titanium(IV) Oxide Powder for Photocatalytic Overall Water Splitting on Structural Properties. Journal of Physical Chemistry C, 2014, 118, 9093-9100.	3.1	59
111	Preparation of BaZrO3â€"BaTaO2N solid solutions and the photocatalytic activities for water reduction and oxidation under visible light. Journal of Catalysis, 2014, 310, 67-74.	6.2	56
112	Experimental visualization of covalent bonds and structural disorder in a gallium zinc oxynitride photocatalyst (Ga1â^'xZnx)(N1â^'xOx): origin of visible light absorption. Chemical Communications, 2010, 46, 2379.	4.1	55
113	Dependence of Activity and Stability of Germanium Nitride Powder for Photocatalytic Overall Water Splitting on Structural Properties. Chemistry of Materials, 2007, 19, 4092-4097.	6.7	54
114	A Z-scheme photocatalyst constructed with an yttriumâ€"tantalum oxynitride and a binuclear Ru(<scp>ii</scp>) complex for visible-light CO₂ reduction. Chemical Communications, 2016, 52, 7886-7889.	4.1	54
115	Development of hybrid photocatalysts constructed with a metal complex and graphitic carbon nitride for visible-light-driven CO₂ reduction. Physical Chemistry Chemical Physics, 2017, 19, 4938-4950.	2.8	54
116	Cobalt Oxide Nanoclusters on Rutile Titania as Bifunctional Units for Water Oxidation Catalysis and Visible Light Absorption: Understanding the Structureâ€"Activity Relationship. ACS Applied Materials & Interfaces, 2017, 9, 6114-6122.	8.0	54
117	Development of Cocatalysts for Photocatalytic Overall Water Splitting on (Ga1â^'x Zn x)(N1â^'x O x) Solid Solution. Catalysis Surveys From Asia, 2007, 11, 145-157.	2.6	53
118	Isotopic and kinetic assessment of photocatalytic water splitting on Zn-added Ga2O3 photocatalyst loaded with Rh2â^'yCryO3 cocatalyst. Chemical Physics Letters, 2010, 486, 144-146.	2.6	53
119	Effect of post-treatments on the photocatalytic activity of Sm2Ti2S2O5 for the hydrogen evolution reaction. Physical Chemistry Chemical Physics, 2014, 16, 12051.	2.8	53
120	Photoresponse of GaN:ZnO Electrode on FTO under Visible Light Irradiation. Bulletin of the Chemical Society of Japan, 2009, 82, 401-407.	3.2	52
121	Preparation of a colloidal array of NaTaO3 nanoparticles via a confined space synthesis route and its photocatalytic application. Physical Chemistry Chemical Physics, 2011, 13, 2563.	2.8	52
122	Lanthanoid Oxide Layers on Rhodium-Loaded (Ga_{1â€"<i>x</i>}Zn_{<i>x</i>})(N_{1â€"<i>x</i>}O_{<i>x</i>}) Photocatalyst as a Modifier for Overall Water Splitting under Visible-Light Irradiation. Journal of Physical Chemistry C, 2013, 117, 14000-14006.	3.1	52
123	Effect of Hydrogen and Oxygen Evolution Cocatalysts on Photocatalytic Activity of GaN:ZnO. European Journal of Inorganic Chemistry, 2014, 2014, 767-772.	2.0	52
124	Robust Binding between Carbon Nitride Nanosheets and a Binuclear Ruthenium(II) Complex Enabling Durable, Selective CO₂ Reduction under Visible Light in Aqueous Solution. Angewandte Chemie, 2017, 129, 4945-4949.	2.0	52
125	Molecule/Semiconductor Hybrid Materials for Visible-Light CO₂ Reduction: Design Principles and Interfacial Engineering. Accounts of Materials Research, 2021, 2, 458-470.	11.7	51
126	Recent Progress on Mixed-Anion Materials for Energy Applications. Bulletin of the Chemical Society of Japan, 2022, 95, 26-37.	3.2	51

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127	Structural and Band Gap Investigation of GaN:ZnO Heterojunction Solid Solution Photocatalyst Probed by Soft X-ray Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 7694-7700.	3.1	50
128	Photocatalytic properties of rutile TiO₂ powder for overall water splitting. Catalysis Science and Technology, 2014, 4, 1949-1953.	4.1	49
129	The Effects of Starting Materials in the Synthesis of (Ga_{1âˆ’<i>x</i>}Zn_{<i>x</i>})(N_{1âˆ’<i>x</i>}O_{<i>x</i>}) Solid Solution on Its Photocatalytic Activity for Overall Water Splitting under Visible Light. ChemSusChem, 2009, 2, 336-343.	6.8	46
130	Modification of oxysulfides with two nanoparticulate cocatalysts to achieve enhanced hydrogen production from water with visible light. Chemical Communications, 2010, 46, 7313.	4.1	46
131	Modification of TaON with ZrO2 to improve photocatalytic hydrogen evolution activity under visible light: influence of preparation conditions on activity. Catalysis Science and Technology, 2012, 2, 818.	4.1	46
132	Synthesis and photocatalytic activity of K₂CaNaNb₃O₁₀, a new Ruddlesdenâ€“Popper phase layered perovskite. Dalton Transactions, 2017, 46, 10594-10601.	3.3	46
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