Can Li

List of Publications by Year
in descending order

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580	55,856	905 116	1713 213
papers	citations	h-index	g-index

607	607	607	39440
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Roles of Cocatalysts in Photocatalysis and Photoelectrocatalysis. Accounts of Chemical Research, 2013, 46, 1900-1909.	7.6	2,368
2	Titanium Dioxide-Based Nanomaterials for Photocatalytic Fuel Generations. Chemical Reviews, 2014, 114, 9987-10043.	23.0	2,096
3	Enhancement of Photocatalytic H₂ Evolution on CdS by Loading MoS₂ as Cocatalyst under Visible Light Irradiation. Journal of the American Chemical Society, 2008, 130, 7176-7177.	6.6	1,752
4	Recent developments in heterogeneous photocatalysts for solar-driven overall water splitting. Chemical Society Reviews, 2019, 48, 2109-2125.	18.7	1,639
5	Spatial separation of photogenerated electrons and holes among {010} and {110} crystal facets of BiVO4. Nature Communications, 2013, 4, 1432.	5.8	1,458
6	Importance of the Relationship between Surface Phases and Photocatalytic Activity of TiO₂. Angewandte Chemie - International Edition, 2008, 47, 1766-1769.	7.2	1,093
7	Visible-light-driven hydrogen production with extremely high quantum efficiency on Ptâ€“PdS/CdS photocatalyst. Journal of Catalysis, 2009, 266, 165-168.	3.1	1,039
8	Surface optimization to eliminate hysteresis for record efficiency planar perovskite solar cells. Energy and Environmental Science, 2016, 9, 3071-3078.	15.6	870
9	Nanomaterials for renewable energy production and storage. Chemical Society Reviews, 2012, 41, 7909.	18.7	856
10	UV Raman Spectroscopic Study on TiO2. I. Phase Transformation at the Surface and in the Bulk. Journal of Physical Chemistry B, 2006, 110, 927-935.	1.2	852
11	A highly selective and stable ZnO-ZrO ₂ solid solution catalyst for CO ₂ hydrogenation to methanol. Science Advances, 2017, 3, e1701290.	4.7	683
12	Photocatalytic Overall Water Splitting Promoted by an Î±â€“Î²â€…phase Junction on Ga₂O₃. Angewandte Chemie - International Edition, 2012, 51, 13089-13092.	7.2	574
13	High efficiency flexible perovskite solar cells using superior low temperature TiO₂. Energy and Environmental Science, 2015, 8, 3208-3214.	15.6	519
14	Advances in solar energy conversion. Chemical Society Reviews, 2019, 48, 1862-1864.	18.7	492
15	Highly efficient photocatalysts constructed by rational assembly of dual-cocatalysts separately on different facets of BiVO₄. Energy and Environmental Science, 2014, 7, 1369-1376.	15.6	491
16	Photoelectrocatalytic Water Splitting: Significance of Cocatalysts, Electrolyte, and Interfaces. ACS Catalysis, 2017, 7, 675-688.	5.5	488
17	Hysteresisâ€Suppressed Highâ€Efficiency Flexible Perovskite Solar Cells Using Solidâ€State Ionicâ€Liquids for Effective Electron Transport. Advanced Materials, 2016, 28, 5206-5213.	11.1	387
18	Highly Selective Conversion of Carbon Dioxide to Lower Olefins. ACS Catalysis, 2017, 7, 8544-8548.	5.5	387

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19	Photocatalytic H₂ Evolution on CdS Loaded with WS₂ as Cocatalyst under Visible Light Irradiation. Journal of Physical Chemistry C, 2011, 115, 12202-12208.	1.5	376
20	Enhancing charge separation on high symmetry SrTiO₃exposed with anisotropic facets for photocatalytic water splitting. Energy and Environmental Science, 2016, 9, 2463-2469.	15.6	372
21	Photoelectrocatalytic Materials for Solar Water Splitting. Advanced Energy Materials, 2018, 8, 1800210.	10.2	364
22	Visible-Light Driven Overall Conversion of CO₂ and H₂O to CH₄ and O₂ on 3D-SiC@2D-MoS₂ Heterostructure. Journal of the American Chemical Society, 2018, 140, 14595-14598.	6.6	361
23	Photocatalytic Water Oxidation on BiVO₄ with the Electrocatalyst as an Oxidation Cocatalyst: Essential Relations between Electrocatalyst and Photocatalyst. Journal of Physical Chemistry C, 2012, 116, 5082-5089.	1.5	360
24	A Tantalum Nitride Photoanode Modified with a Holeâ€Storage Layer for Highly Stable Solar Water Splitting. Angewandte Chemie - International Edition, 2014, 53, 7295-7299.	7.2	354
25	Crystal Facet Dependence of Water Oxidation on BiVO₄Sheets under Visible Light Irradiation. Chemistry - A European Journal, 2011, 17, 1275-1282.	1.7	351
26	Imaging photogenerated charge carriers on surfaces and interfaces of photocatalysts with surface photovoltage microscopy. Chemical Society Reviews, 2018, 47, 8238-8262.	18.7	343
27	Chiral Synthesis on Catalysts Immobilized in Microporous and Mesoporous Materials. Catalysis Reviews - Science and Engineering, 2004, 46, 419-492.	5.7	340
28	Photoluminescence Characteristics of TiO2and Their Relationship to the Photoassisted Reaction of Water/Methanol Mixture. Journal of Physical Chemistry C, 2007, 111, 693-699.	1.5	337
29	Enabling an integrated tantalum nitride photoanode to approach the theoretical photocurrent limit for solar water splitting. Energy and Environmental Science, 2016, 9, 1327-1334.	15.6	332
30	Roles of cocatalysts in Ptâ€“PdS/CdS with exceptionally high quantum efficiency for photocatalytic hydrogen production. Journal of Catalysis, 2012, 290, 151-157.	3.1	324
31	Podlike Nâ€Doped Carbon Nanotubes Encapsulating FeNi Alloy Nanoparticles: Highâ€Performance Counter Electrode Materials for Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2014, 53, 7023-7027.	7.2	315
32	Achieving overall water splitting using titanium dioxide-based photocatalysts of different phases. Energy and Environmental Science, 2015, 8, 2377-2382.	15.6	313
33	Positioning the Water Oxidation Reaction Sites in Plasmonic Photocatalysts. Journal of the American Chemical Society, 2017, 139, 11771-11778.	6.6	311
34	Highly Selective Conversion of Carbon Dioxide to Aromatics over Tandem Catalysts. Joule, 2019, 3, 570-583.	11.7	294
35	Direct Imaging of Highly Anisotropic Photogenerated Charge Separations on Different Facets of a Single BiVO₄ Photocatalyst. Angewandte Chemie - International Edition, 2015, 54, 9111-9114.	7.2	284
36	Nitrogen-doped carbon nanotubes derived from Znâ€“Fe-ZIF nanospheres and their application as efficient oxygen reduction electrocatalysts with in situ generated iron species. Chemical Science, 2013, 4, 2941.	3.7	282

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37	Direct Synthesis and Characterization of Titanium-Substituted Mesoporous Molecular Sieve SBA-15. Chemistry of Materials, 2002, 14, 3413-3421.	3.2	278
38	Charge separation via asymmetric illumination in photocatalytic Cu2O particles. Nature Energy, 2018, 3, 655-663.	19.8	275
39	Cell-free chemoenzymatic starch synthesis from carbon dioxide. Science, 2021, 373, 1523-1527.	6.0	274
40	Recent advances and perspectives for solar-driven water splitting using particulate photocatalysts. Chemical Society Reviews, 2022, 51, 3561-3608.	18.7	273
41	Dual Cocatalysts Loaded Type I CdS/ZnS Core/Shell Nanocrystals as Effective and Stable Photocatalysts for H₂ Evolution. Journal of Physical Chemistry C, 2013, 117, 11584-11591.	1.5	272
42	Ultra-Deep Desulfurization of Diesel: Oxidation with a Recoverable Catalyst Assembled in Emulsion. Chemistry - A European Journal, 2004, 10, 2277-2280.	1.7	270
43	Noble-Metal Based Random Alloy and Intermetallic Nanocrystals: Syntheses and Applications. Chemical Reviews, 2021, 121, 736-795.	23.0	269
44	Hybrid Artificial Photosynthetic Systems Comprising Semiconductors as Light Harvesters and Biomimetic Complexes as Molecular Cocatalysts. Accounts of Chemical Research, 2013, 46, 2355-2364.	7.6	267
45	Functionalized periodic mesoporous organosilicas for catalysis. Journal of Materials Chemistry, 2009, 19, 1945.	6.7	262
46	Phase Transformation in the Surface Region of Zirconia Detected by UV Raman Spectroscopy. Journal of Physical Chemistry B, 2001, 105, 8107-8111.	1.2	254
47	Interface Engineering of a CoO_x/Ta₃N₅ Photocatalyst for Unprecedented Water Oxidation Performance under Visibleâ€Lightâ€Irradiation. Angewandte Chemie - International Edition, 2015, 54, 3047-3051.	7.2	254
48	Efficient Visibleâ€Lightâ€Driven Zâ€Scheme Overall Water Splitting Using a MgTa₂O_{6â^’x}N_yâ€‰/TaON Heterostructure Photocatalyst for H₂ Evolution. Angewandte Chemie - International Edition, 2015, 54, 8498-8501.	7.2	252
49	A Spectroscopic Study on the Interactions of Porphyrin with G-Quadruplex DNAs. Biochemistry, 2006, 45, 6681-6691.	1.2	244
50	Water oxidation on a mononuclear manganese heterogeneous catalyst. Nature Catalysis, 2018, 1, 870-877.	16.1	244
51	Trap states and carrier dynamics of TiO2 studied by photoluminescence spectroscopy under weak excitation condition. Physical Chemistry Chemical Physics, 2010, 12, 7083.	1.3	240
52	Direct Synthesis of Alâ^’SBA-15 Mesoporous Materials via Hydrolysis-Controlled Approach. Journal of Physical Chemistry B, 2004, 108, 9739-9744.	1.2	236
53	Sustainable Synthesis of Zeolites without Addition of Both Organotemplates and Solvents. Journal of the American Chemical Society, 2014, 136, 4019-4025.	6.6	233
54	Intrinsic Facetâ€Dependent Reactivity of Wellâ€Defined BiOBr Nanosheets on Photocatalytic Water Splitting. Angewandte Chemie - International Edition, 2020, 59, 6590-6595.	7.2	231

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55	Mimicking the Key Functions of Photosystem II in Artificial Photosynthesis for Photoelectrocatalytic Water Splitting. Journal of the American Chemical Society, 2018, 140, 3250-3256.	6.6	224
56	UV Resonance Raman Spectroscopic Identification of Titanium Atoms in the Framework of TS-1 Zeolite. Angewandte Chemie - International Edition, 1999, 38, 2220-2222.	7.2	220
57	Construction and Nanoscale Detection of Interfacial Charge Transfer of Elegant Z-Scheme WO₃/Au/In₂S₃ Nanowire Arrays. Nano Letters, 2016, 16, 5547-5552.	4.5	217
58	Water Oxidation Catalysts for Artificial Photosynthesis. Advanced Materials, 2019, 31, e1902069.	11.1	215
59	Photocatalytic oxidation of thiophene on BiVO₄with dual co-catalysts Pt and RuO₂under visible light irradiation using molecular oxygen as oxidant. Energy and Environmental Science, 2012, 5, 6400-6406.	15.6	204
60	Direct and indirect Z-scheme heterostructure-coupled photosystem enabling cooperation of CO2 reduction and H2O oxidation. Nature Communications, 2020, 11, 3043.	5.8	200
61	Structural Characteristics and Redox Behaviors of Ce1-xCuxOy Solid Solutions. Chemistry of Materials, 2003, 15, 4761-4767.	3.2	196
62	Well-defined BiOCl colloidal ultrathin nanosheets: synthesis, characterization, and application in photocatalytic aerobic oxidation of secondary amines. Chemical Science, 2015, 6, 1873-1878.	3.7	196
63	Visible light driven overall water splitting using cocatalyst/BiVO4 photoanode with minimized bias. Physical Chemistry Chemical Physics, 2013, 15, 4589.	1.3	194
64	Chiral catalysis in nanopores of mesoporous materials. Chemical Communications, 2007, , 547-558.	2.2	193
65	Mechanistic Studies of Photocatalytic Reaction of Methanol for Hydrogen Production on Pt/TiO2by in situ Fourier Transform IR and Time-Resolved IR Spectroscopy. Journal of Physical Chemistry C, 2007, 111, 8005-8014.	1.5	192
66	Transitionâ€Metalâ€Based Electrocatalysts as Cocatalysts for Photoelectrochemical Water Splitting: A Mini Review. Small, 2018, 14, e1704179.	5.2	182
67	Stable Potential Windows for Longâ€Term Electrocatalysis by Manganese Oxides Under Acidic Conditions. Angewandte Chemie - International Edition, 2019, 58, 5054-5058.	7.2	182
68	Direct synthesis of highly ordered Fe-SBA-15 mesoporous materials under weak acidic conditions. Microporous and Mesoporous Materials, 2005, 84, 41-49.	2.2	181
69	Effect of Metal Doping on Electronic Structure and Visible Light Absorption of SrTiO₃ and NaTaO₃ (Metal = Mn, Fe, and Co). Journal of Physical Chemistry C, 2011, 115, 8305-8311.	1.5	181
70	Synthesis of oriented TiO2 nanocones with fast charge transfer for perovskite solar cells. Nano Energy, 2015, 11, 409-418.	8.2	180
71	Directly Probing Charge Separation at Interface of TiO₂ Phase Junction. Journal of Physical Chemistry Letters, 2017, 8, 1419-1423.	2.1	180
72	UV Raman spectroscopic study on the phase transformation of ZrO2, Y2O3-ZrO2 and SO42?/ZrO2. Journal of Raman Spectroscopy, 2002, 33, 301-308.	1.2	169

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73	Synergetic Effect of Conjugated Ni(OH)₂/IrO₂ Cocatalyst on Titanium-Doped Hematite Photoanode for Solar Water Splitting. Journal of Physical Chemistry C, 2015, 119, 19607-19612.	1.5	167
74	A Hydrogen Farm Strategy for Scalable Solar Hydrogen Production with Particulate Photocatalysts. Angewandte Chemie - International Edition, 2020, 59, 9653-9658.	7.2	167
75	Aerobic oxidative desulfurization of benzothiophene, dibenzothiophene and 4,6-dimethyldibenzothiophene using an Anderson-type catalyst [(C18H37)2N(CH3)2]5[IMo6O24]. Green Chemistry, 2010, 12, 1954.	4.6	166
76	Efficiency Accreditation and Testing Protocols for Particulate Photocatalysts toward Solar Fuel Production. Joule, 2021, 5, 344-359.	11.7	165
77	Visualizing the Nano Cocatalyst Aligned Electric Fields on Single Photocatalyst Particles. Nano Letters, 2017, 17, 6735-6741.	4.5	164
78	Highly Efficient Degradation of Persistent Pollutants with 3D Nanocone TiO₂-Based Photoelectrocatalysis. Journal of the American Chemical Society, 2021, 143, 13664-13674.	6.6	158
79	Water reduction and oxidation on Ptâ€“Ru/Y2Ta2O5N2catalyst under visible light irradiation. Chemical Communications, 2004, , 2192-2193.	2.2	157
80	Visibleâ€Lightâ€Responsive 2D Cadmiumâ€“Organic Framework Single Crystals with Dual Functions of Water Reduction and Oxidation. Advanced Materials, 2018, 30, e1803401.	11.1	157
81	Unassisted Photoelectrochemical Cell with Multimediator Modulation for Solar Water Splitting Exceeding 4% Solar-to-Hydrogen Efficiency. Journal of the American Chemical Society, 2021, 143, 12499-12508.	6.6	157
82	Significance of Crystal Morphology Controlling in Semiconductor-Based Photocatalysis: A Case Study on BiVO₄ Photocatalyst. Crystal Growth and Design, 2017, 17, 2923-2928.	1.4	156
83	Unraveling of cocatalysts photodeposited selectively on facets of BiVO4 to boost solar water splitting. Nature Communications, 2022, 13, 484.	5.8	156
84	Spinel ZnMn2O4 nanoplate assemblies fabricated via â€œescape-by-crafty-schemeâ€•strategy. Journal of Materials Chemistry, 2012, 22, 13328.	6.7	151
85	Achieving solar overall water splitting with hybrid photosystems of photosystem II and artificial photocatalysts. Nature Communications, 2014, 5, 4647.	5.8	151
86	Effect of Redox Cocatalysts Location on Photocatalytic Overall Water Splitting over Cubic NaTaO₃ Semiconductor Crystals Exposed with Equivalent Facets. ACS Catalysis, 2016, 6, 2182-2191.	5.5	149
87	Improving Catalytic Hydrogenation Performance of Pd Nanoparticles by Electronic Modulation Using Phosphine Ligands. ACS Catalysis, 2018, 8, 6476-6485.	5.5	148
88	Dynamic Interaction between Methylammonium Lead Iodide and TiO₂ Nanocrystals Leads to Enhanced Photocatalytic H₂ Evolution from HI Splitting. ACS Energy Letters, 2018, 3, 1159-1164.	8.8	147
89	Alternating precursor layer deposition for highly stable perovskite films towards efficient solar cells using vacuum deposition. Journal of Materials Chemistry A, 2015, 3, 9401-9405.	5.2	146
90	Surface Strategies for Particulate Photocatalysts toward Artificial Photosynthesis. Joule, 2018, 2, 2260-2288.	11.7	146

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91	Efficient hydrogen peroxide synthesis by metal-free polyterthiophene via photoelectrocatalytic dioxygen reduction. Energy and Environmental Science, 2020, 13, 238-245.	15.6	146
92	Identifying Framework Titanium in TS-1 Zeolite by UV Resonance Raman Spectroscopy. Journal of Physical Chemistry B, 2001, 105, 2993-2997.	1.2	144
93	Structure and Redox Properties of CexTi1-xO2Solid Solution. Chemistry of Materials, 2001, 13, 197-202.	3.2	142
94	UV Raman Spectroscopic Studies on Active Sites and Synthesis Mechanisms of Transition Metal-Containing Microporous and Mesoporous Materials. Accounts of Chemical Research, 2010, 43, 378-387.	7.6	140
95	Sulfur-substituted and zinc-doped In(OH)3: A new class of catalyst for photocatalytic H2 production from water under visible light illumination. Journal of Catalysis, 2006, 237, 322-329.	3.1	138
96	Understanding the anataseâ€“rutile phase junction in charge separation and transfer in a TiO₂ electrode for photoelectrochemical water splitting. Chemical Science, 2016, 7, 6076-6082.	3.7	138
97	Pyroelectric effect in CdS nanorods decorated with a molecular Co-catalyst for hydrogen evolution. Nano Energy, 2020, 73, 104810.	8.2	138
98	A Thorough Investigation of the Active Titanium Species in TSâ€1 Zeolite by In Situ UV Resonance Raman Spectroscopy. Chemistry - A European Journal, 2012, 18, 13854-13860.	1.7	137
99	High-Performance M_aZrO_x (M_a = Cd, Ga) Solid-Solution Catalysts for CO₂ Hydrogenation to Methanol. ACS Catalysis, 2019, 9, 10253-10259.	5.5	137
100	Gradient tantalum-doped hematite homojunction photoanode improves both photocurrents and turn-on voltage for solar water splitting. Nature Communications, 2020, 11, 4622.	5.8	133
101	Assembly of ZIF nanostructures around free Pt nanoparticles: efficient size-selective catalysts for hydrogenation of alkenes under mild conditions. Chemical Communications, 2013, 49, 3330.	2.2	131
102	Enantioselective Dielsâ€“Alder Reactions with Gâ€Quadruplex DNAâ€Based Catalysts. Angewandte Chemie - International Edition, 2012, 51, 9352-9355.	7.2	128
103	Where Do Photogenerated Holes Go in Anatase:Rutile TiO₂? A Transient Absorption Spectroscopy Study of Charge Transfer and Lifetime. Journal of Physical Chemistry A, 2016, 120, 715-723.	1.1	128
104	Enhancing hydrogen production activity and suppressing CO formation from photocatalytic biomass reforming on Pt/TiO2 by optimizing anataseâ€“rutile phase structure. Journal of Catalysis, 2011, 278, 329-335.	3.1	127
105	Promoting Photocatalytic H₂ Evolution on Organicâ€“Inorganic Hybrid Perovskite Nanocrystals by Simultaneous Dual-Charge Transportation Modulation. ACS Energy Letters, 2019, 4, 40-47.	8.8	127
106	Crystallographic-Orientation-Dependent Charge Separation of BiVO₄ for Solar Water Oxidation. ACS Energy Letters, 2019, 4, 825-831.	8.8	126
107	Catalytic Decomposition of Ammonia over Nitrided MoNx/Î±-Al2O3 and NiMoNy/Î±-Al2O3 Catalysts. Industrial & Engineering Chemistry Research, 2000, 39, 3694-3697.	1.8	125
108	Interfacial Charge Modulation: An Efficient Strategy for Boosting Spatial Charge Separation on Semiconductor Photocatalysts. Advanced Energy Materials, 2019, 9, 1803951.	10.2	125

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109	Unprecedentedly High Formic Acid Dehydrogenation Activity on an Iridium Complex with an N,Nâ€²â€Diimine Ligand in Water. Chemistry - A European Journal, 2015, 21, 12592-12595.	1.7	124
110	Atomically dispersed Ptn+ species as highly active sites in Pt/In2O3 catalysts for methanol synthesis from CO2 hydrogenation. Journal of Catalysis, 2021, 394, 236-244.	3.1	124
111	Mo₂C as Nonâ€Noble Metal Coâ€Catalyst in Mo₂C/CdS Composite for Enhanced Photocatalytic H₂ Evolution under Visible Light Irradiation. ChemSusChem, 2016, 9, 820-824.	3.6	123
112	Bismuth Tantalum Oxyhalogen: A Promising Candidate Photocatalyst for Solar Water Splitting. Advanced Energy Materials, 2018, 8, 1701392.	10.2	122
113	Manipulating the Interfacial Energetics of n-type Silicon Photoanode for Efficient Water Oxidation. Journal of the American Chemical Society, 2016, 138, 13664-13672.	6.6	121
114	Redox-Based Visible-Light-Driven Z-Scheme Overall Water Splitting with Apparent Quantum Efficiency Exceeding 10%. Joule, 2018, 2, 2393-2402.	11.7	121
115	Amorphous Multi-elements Electrocatalysts with Tunable Bifunctionality toward Overall Water Splitting. ACS Catalysis, 2018, 8, 9926-9935.	5.5	121
116	Internalâ€Fieldâ€Enhanced Charge Separation in a Singleâ€Domain Ferroelectric PbTiO₃ Photocatalyst. Advanced Materials, 2020, 32, e1906513.	11.1	121
117	Integrating a dual-silicon photoelectrochemical cell into a redox flow battery for unassisted photocharging. Nature Communications, 2016, 7, 11474.	5.8	120
118	Design of Pt/t-ZrO2/g-C3N4 efficient photocatalyst for the hydrogen evolution reaction. Applied Catalysis B: Environmental, 2019, 251, 305-312.	10.8	118
119	Highly Efficient Dehydrogenation of Primary Aliphatic Alcohols Catalyzed by Cu Nanoparticles Dispersed on Rod-Shaped La₂O₂CO₃. ACS Catalysis, 2013, 3, 890-894.	5.5	115
120	Formal Asymmetric Catalytic Thiolation with a Bifunctional Catalyst at a Waterâ€“Oil Interface: Synthesis of Benzyl Thiols. Angewandte Chemie - International Edition, 2015, 54, 4522-4526.	7.2	115
121	Heterostructure of 1D Ta₃N₅ Nanorod/BaTaO₂N Nanoparticle Fabricated by a Oneâ€Step Ammonia Thermal Route for Remarkably Promoted Solar Hydrogen Production. Advanced Materials, 2019, 31, e1808185.	11.1	115
122	UV Raman Spectroscopic Study on TiO₂. II. Effect of Nanoparticle Size on the Outer/Inner Phase Transformations. Journal of Physical Chemistry C, 2009, 113, 1698-1704.	1.5	114
123	Composite Sr2TiO4/SrTiO3(La,Cr) heterojunction based photocatalyst for hydrogen production under visible light irradiation. Journal of Materials Chemistry A, 2013, 1, 7905.	5.2	114
124	The nature of photogenerated charge separation among different crystal facets of BiVO₄studied by density functional theory. Physical Chemistry Chemical Physics, 2015, 17, 23503-23510.	1.3	112
125	Achievement of visible-light-driven Z-scheme overall water splitting using barium-modified Ta₃N₅as a H₂-evolving photocatalyst. Chemical Science, 2017, 8, 437-443.	3.7	110
126	The Synergistic Effects of Two Co-catalysts on Zn2GeO4 on Photocatalytic Water Splitting. Catalysis Letters, 2010, 134, 78-86.	1.4	109

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127	Enantioselective Friedelâ€“Crafts reactions in water catalyzed by a human telomeric G-quadruplex DNA metalloenzyme. Chemical Communications, 2012, 48, 6232.	2.2	106
128	A Sandwichâ€Like Organolead Halide Perovskite Photocathode for Efficient and Durable Photoelectrochemical Hydrogen Evolution in Water. Advanced Energy Materials, 2018, 8, 1800795.	10.2	106
129	Base-free hydrogenation of CO₂ to formic acid in water with an iridium complex bearing a N,Nâ€²-diimine ligand. Green Chemistry, 2016, 18, 4553-4558.	4.6	105
130	Photocatalytic H2 production on hybrid catalyst system composed of inorganic semiconductor and cobaloximes catalysts. Journal of Catalysis, 2011, 281, 318-324.	3.1	102
131	Transfer of Photoinduced Electrons in Anataseâ€“Rutile TiO₂ Determined by Time-Resolved Mid-Infrared Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 12661-12668.	1.5	102
132	Effect of Phase Junction Structure on the Photocatalytic Performance in Overall Water Splitting: Ga₂O₃ Photocatalyst as an Example. Journal of Physical Chemistry C, 2015, 119, 18221-18228.	1.5	101
133	Understanding the Effect of Crystalline Structural Transformation for Leadâ€Free Inorganic Halide Perovskites. Advanced Materials, 2020, 32, e2002137.	11.1	101
134	Enantioselective Reactions of 2â€Sulfonylalkyl Phenols with Allenic Esters: Dynamic Kinetic Resolution and [4+2] Cycloaddition Involving orthoâ€Quinone Methide Intermediates. Angewandte Chemie - International Edition, 2017, 56, 3689-3693.	7.2	100
135	Synthesis and Demonstration of Subnanometric Iridium Oxide as Highly Efficient and Robust Water Oxidation Catalyst. ACS Catalysis, 2017, 7, 5983-5986.	5.5	100
136	UV Raman spectroscopic study on the synthesis mechanism and assembly of molecular sieves. Chemical Society Reviews, 2010, 39, 4794.	18.7	99
137	Lowering Molecular Symmetry To Improve the Morphological Properties of the Holeâ€Transport Layer for Stable Perovskite Solar Cells. Angewandte Chemie - International Edition, 2018, 57, 12529-12533.	7.2	99
138	Dion-Jacobson 2D-3D perovskite solar cells with improved efficiency and stability. Nano Energy, 2020, 75, 104892.	8.2	99
139	Homophase Junction for Promoting Spatial Charge Separation in Photocatalytic Water Splitting. ACS Catalysis, 2019, 9, 3242-3252.	5.5	98
140	A Hybrid Photocatalytic System Comprising ZnS as Light Harvester and an [Fe₂S₂] Hydrogenase Mimic as Hydrogen Evolution Catalyst. ChemSusChem, 2012, 5, 849-853.	3.6	95
141	Roles of Phase Junction in Photocatalysis and Photoelectrocatalysis. Journal of Physical Chemistry C, 2018, 122, 21083-21096.	1.5	95
142	Solar-to-hydrogen efficiency exceeding 2.5% achieved for overall water splitting with an all earth-abundant dual-photoelectrode. Physical Chemistry Chemical Physics, 2014, 16, 15608-15614.	1.3	94
143	Cu₂O/CuO photocathode with improved stability for photoelectrochemical water reduction. RSC Advances, 2015, 5, 10790-10794.	1.7	94
144	Boosting photocatalytic water splitting by tuning built-in electric field at phase junction. Journal of Materials Chemistry A, 2019, 7, 10264-10272.	5.2	91

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145	Hydration of Epoxides on [Co^{III}(salen)] Encapsulated in Silicaâ€Based Nanoreactors. Angewandte Chemie - International Edition, 2012, 51, 11517-11521.	7.2	90
146	Hydrogenation of Carbon Dioxide to Methanol over Noâ^'Cuâ€based Heterogeneous Catalysts. ChemSusChem, 2020, 13, 6160-6181.	3.6	90
147	From Molecular Fragments to Crystals: A UV Raman Spectroscopic Study on the Mechanism of Feâ€ZSMâ€5 Synthesis. Chemistry - A European Journal, 2009, 15, 3268-3276.	1.7	89
148	Photocatalytic H₂production on Pt/TiO₂â€“SO₄^{2â^'}with tuned surface-phase structures: enhancing activity and reducing CO formation. Energy and Environmental Science, 2012, 5, 6345-6351.	15.6	89
149	Nitrogen-doped layered oxide Sr5Ta4O15â^'xNx for water reduction and oxidation under visible light irradiation. Journal of Materials Chemistry A, 2013, 1, 5651.	5.2	89
150	Surfaceâ€Polarityâ€Induced Spatial Charge Separation Boosts Photocatalytic Overall Water Splitting on GaN Nanorod Arrays. Angewandte Chemie - International Edition, 2020, 59, 935-942.	7.2	89
151	Evidence for the binding mode of porphyrins to G-quadruplex DNA. Physical Chemistry Chemical Physics, 2009, 11, 4025.	1.3	87
152	Thermochemical CO2 splitting reaction with supported LaxA1â^'xFeyB1â^'yO3 (A=Sr, Ce, B=Co, Mn; 0â©½x, yâ©½1) perovskite oxides. Solar Energy, 2014, 103, 425-437.	2.9	87
153	Direct synthesis of highly ordered amine-functionalized mesoporous ethane-silicas. Microporous and Mesoporous Materials, 2008, 109, 172-183.	2.2	86
154	Workâ€Functionâ€Tunable Chlorinated Graphene Oxide as an Anode Interface Layer in Highâ€Efficiency Polymer Solar Cells. Advanced Energy Materials, 2014, 4, 1400591.	10.2	85
155	Efficient Plasmonic Au/CdSe Nanodumbbell for Photoelectrochemical Hydrogen Generation beyond Visible Region. Advanced Energy Materials, 2019, 9, 1803889.	10.2	85
156	Photoelectrochemical water oxidation on photoanodes fabricated with hexagonal nanoflower and nanoblock WO3. Nanoscale, 2014, 6, 2061.	2.8	84
157	Tuning the energy band-gap of crystalline gallium oxide to enhance photocatalytic water splitting: mixed-phase junctions. Journal of Materials Chemistry A, 2014, 2, 17005-17014.	5.2	84
158	The Synthesis of Chiral Isotetronic Acids with Amphiphilic Imidazole/Pyrrolidine Catalysts Assembled in Oilâ€inâ€Water Emulsion Droplets. Angewandte Chemie - International Edition, 2012, 51, 13159-13162.	7.2	83
159	Microwave-assisted hydrothermal synthesis of perovskite NaTaO3 nanocrystals and their photocatalytic properties. Journal of Materials Chemistry, 2012, 22, 18808.	6.7	82
160	Photoassisted Oxygen Reduction Reaction in H₂â€“O₂ Fuel Cells. Angewandte Chemie - International Edition, 2016, 55, 14748-14751.	7.2	81
161	Accelerated catalytic activity of Pd NPs supported on amine-rich silica hollow nanospheres for quinoline hydrogenation. Catalysis Science and Technology, 2017, 7, 2221-2227.	2.1	81
162	An Integrated Photoelectrochemicalâ€“Chemical Loop for Solarâ€Driven Overall Splitting of Hydrogen Sulfide. Angewandte Chemie - International Edition, 2014, 53, 4399-4403.	7.2	79

#	Article	IF	Citations
163	Unraveling a Single-Step Simultaneous Two-Electron Transfer Process from Semiconductor to Molecular Catalyst in a CoPy/CdS Hybrid System for Photocatalytic H₂ Evolution under Strong Alkaline Conditions. Journal of the American Chemical Society, 2016, 138, 10726-10729.	6.6	79
164	Tiâ˜MCM-41 Synthesized from Colloidal Silica and Titanium Trichloride: Synthesis, Characterization, and Catalysis. Chemistry of Materials, 2001, 13, 994-998.	3.2	78
165	The dependence of photocatalytic activity on the selective and nonselective deposition of noble metal cocatalysts on the facets of rutile TiO2. Journal of Catalysis, 2016, 337, 36-44.	3.1	78
166	The Polarization Effect in Surfaceâ€Plasmonâ€Induced Photocatalysis on Au/TiO₂ Nanoparticles. Angewandte Chemie - International Edition, 2020, 59, 18218-18223.	7.2	78
167	Synergetic Effect of Dual Coâ€catalysts on the Activity of pâ€Type Cu₂O Crystals with Anisotropic Facets. Chemistry - A European Journal, 2015, 21, 14337-14341.	1.7	77
168	Novel conjugated organic polymers as candidates for visible-light-driven photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2019, 241, 461-470.	10.8	77
169	Boosting Performance of Nonâ€Fullerene Organic Solar Cells by 2D gâ€C₃N₄ Doped PEDOT:PSS. Advanced Functional Materials, 2020, 30, 1910205.	7.8	77
170	The enantioselective cyanosilylation of aldehydes on a chiral VO(Salen) complex encapsulated in SBA-16. Green Chemistry, 2009, 11, 257-264.	4.6	76
171	Organotemplate-free synthesis of high-silica ferrierite zeolite induced by CDO-structure zeolite building units. Journal of Materials Chemistry, 2011, 21, 9494.	6.7	76
172	Visibleâ€Lightâ€Driven Photocatalytic Hydrogen Production on Cd_{0.5}Zn_{0.5}S Nanorods with an Apparent Quantum Efficiency Exceeding 80%. Advanced Functional Materials, 2020, 30, 2003731.	7.8	76
173	In Situ UV Raman Spectroscopic Studies on the Synthesis Mechanism of Zeolite X. Chemistry - A European Journal, 2008, 14, 5125-5129.	1.7	75
174	A wide visible-light-responsive tunneled MgTa₂O_{6â˜x}N_xphotocatalyst for water oxidation and reduction. Chemical Communications, 2014, 50, 14415-14417.	2.2	75
175	Photoelectrochemical Water Splitting Promoted with a Disordered Surface Layer Created by Electrochemical Reduction. ACS Applied Materials & Interfaces, 2015, 7, 3791-3796.	4.0	75
176	Selective Oxidations on Recoverable Catalysts Assembled in Emulsions. Topics in Catalysis, 2005, 35, 169-175.	1.3	74
177	Thermochemical CO2 splitting reaction with CexM1â˜xO2â˜Î´ (M=Ti4+, Sn4+, Hf4+, Zr4+, La3+, Y3+ and) Tj ETQq1 1 0.784314 rgBT	2.9	74
178	Efficiency improved for inverted polymer solar cells with electrostatically self-assembled BenMeIm-Cl ionic liquid layer as cathode interface layer. Nano Energy, 2015, 13, 275-282.	8.2	74
179	Interfacial synergy of Pd sites and defective BiOBr for promoting the solar-driven selective oxidation of toluene. Journal of Materials Chemistry A, 2020, 8, 17657-17669.	5.2	74
180	Phase transformation in the surface region of zirconia and doped zirconia detected by UV Raman spectroscopy. Physical Chemistry Chemical Physics, 2003, 5, 5326.	1.3	73

#	Article	IF	Citations
181	Constructing NiFe-LDH wrapped Cu2O nanocube heterostructure photocatalysts for enhanced photocatalytic dye degradation and CO2 reduction via Z-scheme mechanism. Journal of Alloys and Compounds, 2020, 831, 154723.	2.8	73
182	In Situ UV Raman Spectroscopic Study on the Synthesis Mechanism of AlPOâ€5. Angewandte Chemie - International Edition, 2009, 48, 8743-8747.	7.2	72
183	²⁹Si NMR and UVâ^'Raman Investigation of Initial Oligomerization Reaction Pathways in Acid-Catalyzed Silica Solâ^'Gel Chemistry. Journal of Physical Chemistry C, 2011, 115, 3562-3571.	1.5	72
184	Enhanced lithium storage capacity of Co₃O₄hexagonal nanorings derived from Co-based metal organic frameworks. Journal of Materials Chemistry A, 2014, 2, 17408-17414.	5.2	72
185	Photocatalytic Water Splitting on Semiconductor-Based Photocatalysts. Advances in Catalysis, 2017, 60, 1-57.	0.1	72
186	In Situ FT-IR Spectroscopic Studies of CO Adsorption on Fresh Mo2C/Al2O3Catalyst. Journal of Physical Chemistry B, 2003, 107, 7088-7094.	1.2	71
187	Direct spectroscopic evidence for vanadium species in V-MCM-41 molecular sieve characterized by UV resonance Raman spectroscopy. Chemical Communications, 2000, , 677-678.	2.2	69
188	Ultraviolet Raman spectroscopy of catalysts and other solids. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1997, 15, 1679-1684.	0.9	68
189	Ultrathin two-dimensional graphitic carbon nitride as a solution-processed cathode interfacial layer for inverted polymer solar cells. Journal of Materials Chemistry A, 2016, 4, 8000-8004.	5.2	68
190	Biomimetic electron transport via multiredox shuttles from photosystem II to a photoelectrochemical cell for solar water splitting. Energy and Environmental Science, 2017, 10, 765-771.	15.6	68
191	Mesoporous Ethaneâ^'Silicas Functionalized with trans-(1R,2R)-Diaminocyclohexane as Heterogeneous Chiral Catalysts. Chemistry of Materials, 2005, 17, 6154-6160.	3.2	67
192	Hydrogen generation from formic acid decomposition on a highly efficient iridium catalyst bearing a diaminoglyoxime ligand. Green Chemistry, 2018, 20, 1835-1840.	4.6	67
193	Species, engineering and characterizations of defects in TiO 2 -based photocatalyst. Chinese Chemical Letters, 2018, 29, 671-680.	4.8	67
194	High efficiency inverted polymer solar cells with room-temperature titanium oxide/polyethylenimine films as electron transport layers. Journal of Materials Chemistry A, 2014, 2, 17281-17285.	5.2	66
195	Efficient Hole Extraction from a Holeâ€Storageâ€Layerâ€Stabilized Tantalum Nitride Photoanode for Solar Water Splitting. Chemistry - A European Journal, 2015, 21, 9624-9628.	1.7	66
196	An artificial photosynthetic system containing an inorganic semiconductor and a molecular catalyst for photocatalytic water oxidation. Journal of Catalysis, 2016, 338, 168-173.	3.1	66
197	Metal phosphide catalysts anchored on metal-caged graphitic carbon towards efficient and durable hydrogen evolution electrocatalysis. Nano Energy, 2018, 48, 500-509.	8.2	66
198	Oxygen vacancy engineering with flame heating approach towards enhanced photoelectrochemical water oxidation on WO3 photoanode. Nano Energy, 2020, 77, 105190.	8.2	65

#	Article	IF	Citations
199	H2 production with low CO selectivity from photocatalytic reforming of glucose on metal/TiO2 catalysts. Science in China Series B: Chemistry, 2008, 51, 97-100.	0.8	64
200	Transfer hydrogenation of aldehydes on amphiphilic catalyst assembled at the interface of emulsion droplets. Green Chemistry, 2008, 10, 608.	4.6	64
201	Framework Fe Ions in Fe-ZSM-5 Zeolite Studied by UV Resonance Raman Spectroscopy and Density Functional Theory Calculations. Journal of Physical Chemistry C, 2008, 112, 16036-16041.	1.5	64
202	In Situ Electrodeposited Indium Nanocrystals for Efficient CO₂ Reduction to CO with Low Overpotential. ACS Catalysis, 2016, 6, 6438-6443.	5.5	64
203	Insight into the charge transfer in particulate Ta₃N₅photoanode with high photoelectrochemical performance. Chemical Science, 2016, 7, 4391-4399.	3.7	64
204	Investigating the Coke Formation Mechanism of H-ZSM-5 during Methanol Dehydration Using Operando UVâ€“Raman Spectroscopy. ACS Catalysis, 2018, 8, 9207-9215.	5.5	64
205	Carbon nitride embedded with transition metals for selective electrocatalytic CO2 reduction. Applied Catalysis B: Environmental, 2020, 268, 118391.	10.8	64
206	The nanocomposites of SO3H-hollow-nanosphere and chiral amine for asymmetric aldol reaction. Journal of Materials Chemistry, 2009, 19, 8580.	6.7	63
207	Giant Defect-Induced Effects on Nanoscale Charge Separation in Semiconductor Photocatalysts. Nano Letters, 2019, 19, 426-432.	4.5	63
208	Preparation and Adsorption Properties for Thiophene of Nanostructured W2C on Ultrahigh-Surface-Area Carbon Materials. Chemistry of Materials, 2003, 15, 4846-4853.	3.2	62
209	A remarkable difference in CO₂hydrogenation to methanol on Pd nanoparticles supported inside and outside of carbon nanotubes. Chemical Communications, 2015, 51, 17615-17618.	2.2	62
210	Magnesia interface nanolayer modification of Pt/Ta3N5 for promoted photocatalytic hydrogen production under visible light irradiation. Journal of Catalysis, 2016, 339, 77-83.	3.1	62
211	Loop permutation affects the topology and stability of G-quadruplexes. Nucleic Acids Research, 2018, 46, 9264-9275.	6.5	62
212	The effect of oxygen on the aromatization of methane over the Mo/HZSMâ€5 catalyst. Catalysis Letters, 1999, 63, 73-77.	1.4	61
213	Chirally functionalized mesoporous organosilicas with built-in BINAP ligand for asymmetric catalysis. Journal of Materials Chemistry, 2009, 19, 8009.	6.7	61
214	Fabrication of a monoclinic/hexagonal junction in WO3 and its enhanced photocatalytic degradation of rhodamine B. Chinese Journal of Catalysis, 2016, 37, 349-358.	6.9	61
215	K₂SO₄-Assisted Hexagonal/Monoclinic WO₃ Phase Junction for Efficient Photocatalytic Degradation of RhB. ACS Applied Energy Materials, 2018, 1, 2067-2077.	2.5	61
216	ZnIn2S4 flowerlike microspheres embedded with carbon quantum dots for efficient photocatalytic reduction of Cr(VI). Chinese Journal of Catalysis, 2018, 39, 1901-1909.	6.9	60

#	Article	IF	Citations
217	Highly Active and Selective RuPd Bimetallic NPs for the Cleavage of the Diphenyl Ether Câ€“O Bond. ACS Catalysis, 2018, 8, 11174-11183.	5.5	60
218	CoO_x nanoparticle anchored on sulfonated-graphite as efficient water oxidation catalyst. Chemical Science, 2017, 8, 6111-6116.	3.7	59
219	Oxygen evolution from water oxidation on molecular catalysts confined in the nanocages of mesoporous silicas. Energy and Environmental Science, 2012, 5, 8229.	15.6	58
220	Zincâ€“cobalt oxides as efficient water oxidation catalysts: the promotion effect of ZnO. Journal of Materials Chemistry A, 2015, 3, 4010-4017.	5.2	58
221	FT-IR Spectroscopic Study of the Oxidation of Chlorobenzene over Mn-Based Catalyst. Langmuir, 2002, 18, 6229-6232.	1.6	57
222	Selective production of hydrogen peroxide and oxidation of hydrogen sulfide in an unbiased solar photoelectrochemical cell. Energy and Environmental Science, 2014, 7, 3347-3351.	15.6	57
223	Anchoring of black phosphorus quantum dots onto WO₃ nanowires to boost photocatalytic CO₂ conversion into solar fuels. Chemical Communications, 2020, 56, 7777-7780.	2.2	57
224	UVâ€“Raman and NMR Spectroscopic Studies on the Crystallization of Zeoliteâ€…A and a New Synthetic Route. Chemistry - A European Journal, 2011, 17, 6162-6169.	1.7	56
225	Finding the â€œMissing Componentsâ€•during the Synthesis of TS-1 Zeolite by UV Resonance Raman Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 2844-2848.	1.5	56
226	Title is missing!. Catalysis Letters, 2002, 79, 21-25.	1.4	55
227	Time-resolved photoluminescence of anatase/rutile TiO2 phase junction revealing charge separation dynamics. Chinese Journal of Catalysis, 2016, 37, 2059-2068.	6.9	55
228	Photovoltaic device based on TiO2 rutile/anatase phase junctions fabricated in coaxial nanorod arrays. Nano Energy, 2015, 15, 406-412.	8.2	54
229	Oxidation of refractory sulfur-containing compounds with molecular oxygen catalyzed by vanadoperiodate. Green Chemistry, 2015, 17, 817-820.	4.6	54
230	Moistureâ€Assisted Preparation of Compact GaN:ZnO Photoanode Toward Efficient Photoelectrochemical Water Oxidation. Advanced Energy Materials, 2016, 6, 1600864.	10.2	54
231	Highly ordered periodic mesoporous ethanesilica synthesized under neutral conditions. Journal of Materials Chemistry, 2005, 15, 2562.	6.7	53
232	Synthesis of Bifunctional Porphyrin Polymers for Catalytic Conversion of Dilute CO₂ to Cyclic Carbonates. ACS Applied Materials & Interfaces, 2021, 13, 29522-29531.	4.0	53
233	Basic metal carbonate supported gold nanoparticles: enhanced performance in aerobic alcohol oxidation. Green Chemistry, 2009, 11, 322.	4.6	52
234	Boosting photocatalytic water oxidation by surface plasmon resonance of AgxAu1â^'x alloy nanoparticles. Nano Energy, 2021, 87, 106189.	8.2	52

#	Article	IF	Citations
235	Synergetic effect of dual cocatalysts in photocatalytic H₂production on Pdâ€“IrO_x/TiO₂: a new insight into dual cocatalyst location. Physical Chemistry Chemical Physics, 2014, 16, 17734.	1.3	51
236	Design and Fabrication of a Dualâ€Photoelectrode Fuel Cell towards Costâ€Effective Electricity Production from Biomass. ChemSusChem, 2017, 10, 99-105.	3.6	51
237	Effects of Au nanoparticle size and metal-support interaction on plasmon-induced photocatalytic water oxidation. Chinese Journal of Catalysis, 2018, 39, 1219-1227.	6.9	51
238	Charge carrier transport dynamics in W/Mo-doped BiVO₄: first principles-based mesoscale characterization. Journal of Materials Chemistry A, 2019, 7, 3054-3065.	5.2	51
239	One-pot synthesis of BaMg1/3Ta2/3O3-xNy/Ta3N5 heterostructures as H2-evolving photocatalysts for construction of visible-light-driven Z-scheme overall water splitting. Applied Catalysis B: Environmental, 2019, 241, 1-7.	10.8	51
240	Regulation of Ferroelectric Polarization to Achieve Efficient Charge Separation and Transfer in Particulate RuO₂/BiFeO₃ for High Photocatalytic Water Oxidation Activity. Small, 2020, 16, e2003361.	5.2	51
241	Enantioselective Michael addition reactions in water using a DNA-based catalyst. Tetrahedron, 2013, 69, 6585-6590.	1.0	50
242	An acid-free medium growth of rutile TiO₂nanorods arrays and their application in perovskite solar cells. Journal of Materials Chemistry C, 2015, 3, 729-733.	2.7	50
243	Advanced space- and time-resolved techniques for photocatalyst studies. Chemical Communications, 2020, 56, 1007-1021.	2.2	50
244	Spatially Separated Photosystem II and a Silicon Photoelectrochemical Cell for Overall Water Splitting: A Naturalâ€“Artificial Photosynthetic Hybrid. Angewandte Chemie - International Edition, 2016, 55, 9229-9233.	7.2	49
245	Development of a bismuth-based metal-organic framework for photocatalytic hydrogen production. Chinese Journal of Catalysis, 2019, 40, 1339-1344.	6.9	49
246	Unassisted Highly Selective Gas-Phase CO₂ Reduction with a Plasmonic Au/p-GaN Photocatalyst Using H₂O as an Electron Donor. ACS Energy Letters, 2021, 6, 1849-1856.	8.8	49
247	Surface Sites of Alumina-Supported Molybdenum Nitride Characterized by FTIR, TPD-MS, and Volumetric Chemisorption. Journal of Physical Chemistry B, 1998, 102, 6986-6993.	1.2	48
248	Shape-Controlled Copper Selenide Nanocubes Synthesized by an Electrochemical Crystallization Method. Journal of Physical Chemistry C, 2009, 113, 10833-10837.	1.5	48
249	Na+/K+ switch of enantioselectivity in G-quadruplex DNA-based catalysis. Chemical Communications, 2013, 49, 11161.	2.2	48
250	Interface Engineering of a CoO_x/Ta₃N₅ Photocatalyst for Unprecedented Water Oxidation Performance under Visibleâ€Lightâ€Irradiation. Angewandte Chemie, 2015, 127, 3090-3094.	1.6	48
251	Enantioselective sulfoxidation reaction catalyzed by a G-quadruplex DNA metalloenzyme. Chemical Communications, 2016, 52, 9644-9647.	2.2	48
252	Achieving overall water splitting on plasmon-based solid Z-scheme photocatalysts free of redox mediators. Journal of Catalysis, 2017, 354, 250-257.	3.1	48

#	Article	IF	Citations
253	Mechanistic Understanding of Efficient Photocatalytic H₂ Evolution on Twoâ€Dimensional Layered Lead Iodide Hybrid Perovskites. Angewandte Chemie - International Edition, 2021, 60, 7376-7381.	7.2	48
254	A Novel Sr2CuInO3S p-type semiconductor photocatalyst for hydrogen production under visible light irradiation. Journal of Energy Chemistry, 2014, 23, 420-426.	7.1	47
255	Terpyridineâ€“Cu(<scp>ii</scp>) targeting human telomeric DNA to produce highly stereospecific G-quadruplex DNA metalloenzyme. Chemical Science, 2015, 6, 5578-5585.	3.7	47
256	CO2 hydrogenation to methanol on ZnO-ZrO2 solid solution catalysts with ordered mesoporous structure. Journal of Catalysis, 2021, 396, 242-250.	3.1	47
257	Achieving Simultaneous CO₂ and H₂S Conversion via a Coupled Solarâ€Driven Electrochemical Approach on Nonâ€Preciousâ€Metal Catalysts. Angewandte Chemie - International Edition, 2018, 57, 3473-3477.	7.2	46
258	Sr- and Co-doped LaGaO_{3â^'Î´} with high O₂ and H₂ yields in solar thermochemical water splitting. Journal of Materials Chemistry A, 2019, 7, 6099-6112.	5.2	46
259	Intrinsic Facetâ€Dependent Reactivity of Wellâ€Defined BiOBr Nanosheets on Photocatalytic Water Splitting. Angewandte Chemie, 2020, 132, 6652-6657.	1.6	46
260	CuFeS₂ colloidal nanocrystals as an efficient electrocatalyst for dye sensitized solar cells. Chemical Communications, 2016, 52, 11488-11491.	2.2	45
261	Synthesis of BaTaO₂N oxynitride from Ba-rich oxide precursor for construction of visible-light-driven Z-scheme overall water splitting. Dalton Transactions, 2017, 46, 10707-10713.	1.6	45
262	Unravelling charge separation via surface built-in electric fields within single particulate photocatalysts. Faraday Discussions, 2017, 198, 473-479.	1.6	45
263	The promoting role of Ga in ZnZrOx solid solution catalyst for CO2 hydrogenation to methanol. Journal of Catalysis, 2021, 404, 383-392.	3.1	45
264	Chiral Catalysis at the Water/Oil Interface. ACS Catalysis, 2018, 8, 328-341.	5.5	44
265	Simple Is Best: A p-Phenylene Bridging Methoxydiphenylamine-Substituted Carbazole Hole Transporter for High-Performance Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 30065-30071.	4.0	44
266	Integrating a redox flow battery into a Z-scheme water splitting system for enhancing the solar energy conversion efficiency. Energy and Environmental Science, 2019, 12, 631-639.	15.6	44
267	Stable Potential Windows for Longâ€Term Electrocatalysis by Manganese Oxides Under Acidic Conditions. Angewandte Chemie, 2019, 131, 5108-5112.	1.6	44
268	In-situ fabrication of atomic charge transferring path for constructing heterojunction photocatalysts with hierarchical structure. Applied Catalysis B: Environmental, 2019, 248, 459-465.	10.8	44
269	Carbon Encapsulation of Organicâ€“Inorganic Hybrid Perovskite toward Efficient and Stable Photoâ€Electrochemical Carbon Dioxide Reduction. Advanced Energy Materials, 2020, 10, 2002105.	10.2	44
270	Sr₂NiWO₆ Double Perovskite Oxide as a Novel Visible-Light-Responsive Water Oxidation Photocatalyst. ACS Applied Materials & Interfaces, 2020, 12, 25938-25948.	4.0	44

#	Article	IF	Citations
271	Unraveling Chargeâ€Separation Mechanisms in Photocatalyst Particles by Spatially Resolved Surface Photovoltage Techniques. Angewandte Chemie - International Edition, 2022, 61, .	7.2	44
272	Epoxidation of Propylene over Ag-CuCl Catalysts Using Air as the Oxidant. Catalysis Letters, 2003, 86, 43-49.	1.4	43
273	Role of Oxygen Vacancies on Oxygen Evolution Reaction Activity: Î²-Ga₂O₃ as a Case Study. Chemistry of Materials, 2018, 30, 7714-7726.	3.2	43
274	Spatial separation of dual-cocatalysts on one-dimensional semiconductors for photocatalytic hydrogen production. Journal of Materials Chemistry A, 2019, 7, 15607-15614.	5.2	43
275	Facile Synthesis of Chiral Spirooxindoleâ€Based Isotetronic Acids and 5â€Hâ€Pyrrolâ€2â€ones through Cascade Reactions with Bifunctional Organocatalysts. Chemistry - A European Journal, 2014, 20, 8545-8550.	1.7	42
276	Cl^{â^'}making overall water splitting possible on TiO₂-based photocatalysts. Catalysis Science and Technology, 2014, 4, 2913.	2.1	42
277	The enantioselective construction of chiral spirooxindole-based 4-thiazolidinone via asymmetric catalytic formal [3+2] annulation using a bifunctional catalyst. Chemical Communications, 2016, 52, 3418-3421.	2.2	42
278	A hematite photoanode with gradient structure shows an unprecedentedly low onset potential for photoelectrochemical water oxidation. Physical Chemistry Chemical Physics, 2014, 16, 23544-23548.	1.3	41
279	Conversion of Biomass Derivatives to Electricity in Photo Fuel Cells using Undoped and Tungstenâ€doped Bismuth Vanadate Photoanodes. ChemSusChem, 2015, 8, 4049-4055.	3.6	41
280	Achieving selective photocatalytic CO₂ reduction to CO on bismuth tantalum oxyhalogen nanoplates. Journal of Materials Chemistry A, 2021, 9, 19631-19636.	5.2	41
281	Selective hydrogenation of cinnamaldehyde over carbon nanotube supported pd-ru catalyst. Reaction Kinetics and Catalysis Letters, 2006, 88, 269-276.	0.6	40
282	Sulfurization-Assisted Cobalt Deposition on Sm₂Ti₂S₂O₅ Photocatalyst for Water Oxidation under Visible Light Irradiation. Journal of Physical Chemistry C, 2013, 117, 376-382.	1.5	40
283	UV Raman Spectroscopic Characterization of Catalysts and Catalytic Active Sites. Catalysis Letters, 2015, 145, 468-481.	1.4	40
284	Conjugated microporous polymers with chiral BINAP ligand built-in as efficient catalysts for asymmetric hydrogenation. Catalysis Science and Technology, 2015, 5, 2585-2589.	2.1	40
285	Charge separation promoted by phase junctions in photocatalysts. Chinese Journal of Catalysis, 2015, 36, 1519-1527.	6.9	40
286	Integrating Perovskite Photovoltaics and Noble-Metal-Free Catalysts toward Efficient Solar Energy Conversion and H₂S Splitting. ACS Catalysis, 2016, 6, 6198-6206.	5.5	40
287	Catalytic Function of IrO_x in the Two-Step Thermochemical CO₂-Splitting Reaction at High Temperatures. ACS Catalysis, 2016, 6, 1172-1180.	5.5	40
288	Surface Phase Composition of Iron Molybdate Catalysts Studied by UV Raman Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 9387-9393.	1.5	39

#	Article	IF	Citations
289	Achieving 10.5% efficiency for inverted polymer solar cells by modifying the ZnO cathode interlayer with phenols. Journal of Materials Chemistry A, 2016, 4, 16824-16829.	5.2	39
290	Bridging surface states and currentâ€“potential response over hematite-based photoelectrochemical water oxidation. RSC Advances, 2016, 6, 85582-85586.	1.7	39
291	Photoinduced Surface Activation of Semiconductor Photocatalysts under Reaction Conditions: A Commonly Overlooked Phenomenon in Photocatalysis. ACS Catalysis, 2020, 10, 5941-5948.	5.5	39
292	Development of Novel Perovskiteâ€Like Oxide Photocatalyst LiCuTa₃O₉ with Dual Functions of Water Reduction and Oxidation under Visible Light Irradiation. Advanced Energy Materials, 2018, 8, 1801660.	10.2	38
293	Boosting Electrochemical Water Oxidation on NiFe (oxy) Hydroxides by Constructing Schottky Junction toward Water Electrolysis under Industrial Conditions. Small, 2022, 18, e2105544.	5.2	38
294	A new multiâ€“metallic bulk catalyst with high hydrodesulfurization activity of 4,6â€“DMDBT prepared using layered hydroxide salts as structural templates. Applied Catalysis A: General, 2014, 474, 69-77.	2.2	37
295	Sr₂CoTaO₆ Double Perovskite Oxide as a Novel Visible-Light-Absorbing Bifunctional Photocatalyst for Photocatalytic Oxygen and Hydrogen Evolution Reactions. ACS Sustainable Chemistry and Engineering, 2020, 8, 14190-14197.	3.2	37
296	Development of Mixedâ€Anion Photocatalysts with Wide Visibleâ€Light Absorption Bands for Solar Water Splitting. ChemSusChem, 2019, 12, 1872-1888.	3.6	36
297	A Novel Double Perovskite Oxide Semiconductor Sr₂CoWO₆ as Bifunctional Photocatalyst for Photocatalytic Oxygen and Hydrogen Evolution Reactions from Water under Visible Light Irradiation. Solar Rrl, 2020, 4, 1900456.	3.1	36
298	CO adsorption and correlation between CO surface coverage and activity/selectivity of preferential CO oxidation over supported Ag catalyst: an in situ FTIR study. Catalysis Letters, 2005, 101, 21-26.	1.4	35
299	Super-microporous organosilicas synthesized from well-defined nanobuilding units. Journal of Materials Chemistry, 2008, 18, 450-457.	6.7	35
300	Recyclable enamine catalysts for asymmetric direct cross-aldol reaction of aldehydes in emulsion media. Green Chemistry, 2011, 13, 1983.	4.6	35
301	Influence of extra-framework Al on the structure of the active iron sites in Fe/ZSM-35. Journal of Catalysis, 2013, 300, 251-259.	3.1	35
302	Interfacial charge transfer in semiconductor-molecular photocatalyst systems for proton reduction. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2017, 33, 165-179.	5.6	35
303	Artificial photosynthesis systems for catalytic water oxidation. Advances in Inorganic Chemistry, 2019, 74, 3-59.	0.4	35
304	Ultrathin Cobalt Oxide Interlayer Facilitated Hole Storage for Sustained Water Oxidation over Composited Tantalum Nitride Photoanodes. ACS Catalysis, 2021, 11, 12736-12744.	5.5	35
305	Template-Free Synthesis of Sphere, Rod and Prism Morphologies of CeO2 Oxidation Catalysts. Catalysis Letters, 2010, 137, 28-34.	1.4	34
306	Asymmetric Catalytic 1,2-Hydroperoxidation of Isatin-Derived Ketimine with Hydrogen Peroxide in the Crowding Environment of PEGs. Organic Letters, 2017, 19, 1044-1047.	2.4	34

#	Article	IF	Citations
307	Amorphous Cobalt Oxide Nanoparticles as Active Waterâ€Oxidation Catalysts. ChemCatChem, 2017, 9, 3641-3645.	1.8	34
308	Promoting Charge Separation and Injection by Optimizing the Interfaces of GaN:ZnO Photoanode for Efficient Solar Water Oxidation. ACS Applied Materials & Interfaces, 2017, 9, 30696-30702.	4.0	34
309	Effect of Facetâ€Selective Assembly of Cocatalyst on BiVO₄ Photoanode for Solar Water Oxidation. ChemCatChem, 2019, 11, 3763-3769.	1.8	34
310	Simultaneous Photoelectrocatalytic Water Oxidation and Oxygen Reduction for Solar Electricity Production in Alkaline Solution. ChemSusChem, 2019, 12, 1026-1032.	3.6	34
311	Cobaltâ€Catalyzed Regioâ€and Stereoselective Hydroboration of Allenes. Angewandte Chemie - International Edition, 2020, 59, 6278-6283.	7.2	34
312	Pd modified defective HNb3O8 with dual active sites for photocatalytic coproduction of hydrogen fuel and value-added chemicals. Applied Catalysis B: Environmental, 2021, 296, 120381.	10.8	34
313	Activating a Semiconductorâ€“Liquid Junction via Laserâ€Derived Dual Interfacial Layers for Boosted Photoelectrochemical Water Splitting. Advanced Materials, 2022, 34, e2201140.	11.1	34
314	Surface oxygen species and their reactivities in the mild oxidation of ethylene on cerium oxide studied by FT-IR spectroscopy. Catalysis Letters, 1992, 12, 297-305.	1.4	33
315	The visible luminescent characteristics of ZnO supported on SiO2powder. Physical Chemistry Chemical Physics, 2004, 6, 4473-4479.	1.3	33
316	An IR study on the surface passivation of Mo2C/Al2O3 catalyst with O2, H2O and CO2. Physical Chemistry Chemical Physics, 2004, 6, 5603.	1.3	33
317	Direct electron transfer from photosystem II to hematite in a hybrid photoelectrochemical cell. Chemical Communications, 2015, 51, 16952-16955.	2.2	33
318	Inhibiting competing reactions of iodate/iodide redox mediators by surface modification of photocatalysts to enable Z-scheme overall water splitting. Applied Catalysis B: Environmental, 2018, 224, 579-585.	10.8	33
319	An Operando-Raman study on oxygen evolution of manganese oxides: Roles of phase composition and amorphization. Journal of Catalysis, 2018, 367, 53-61.	3.1	33
320	Interfacial Modulation with Aluminum Oxide for Efficient Plasmonâ€Induced Water Oxidation. Advanced Functional Materials, 2021, 31, 2005688.	7.8	33
321	Unveiling the Hydration Structure of Ferrihydrite for Hole Storage in Photoelectrochemical Water Oxidation. Angewandte Chemie - International Edition, 2021, 60, 6691-6698.	7.2	33
322	Hydroxylated non-fullerene acceptor for highly efficient inverted perovskite solar cells. Energy and Environmental Science, 2021, 14, 6536-6545.	15.6	33
323	DFT Simulations of Water Adsorption and Activation on Lowâ€Index Î±â€Ga₂O₃ Surfaces. Chemistry - A European Journal, 2014, 20, 6915-6926.	1.7	32
324	Photoelectrochemical Properties of CuCrO2: Characterization of Light Absorption and Photocatalytic H2 Production Performance. Catalysis Letters, 2014, 144, 1487-1493.	1.4	32

#	Article	IF	Citations
325	Direct thermolysis of CO₂ into CO and O₂. Chemical Communications, 2017, 53, 1188-1191.	2.2	32
326	Lead-free B-site bimetallic perovskite photocatalyst for efficient benzylic Câ€“H bond activation. Cell Reports Physical Science, 2021, 2, 100656.	2.8	32
327	Title is missing!. Catalysis Letters, 2001, 77, 251-254.	1.4	31
328	Monodisperse AgSbS₂ Nanocrystals: Sizeâ€Control Strategy, Largeâ€Scale Synthesis, and Photoelectrochemistry. Chemistry - A European Journal, 2015, 21, 11143-11151.	1.7	31
329	Abnormal Effects of Cations (Li⁺, Na⁺, and K⁺) on Photoelectrochemical and Electrocatalytic Water Splitting. Journal of Physical Chemistry B, 2015, 119, 3560-3566.	1.2	31
330	Influence of the Electrostatic Interaction between a Molecular Catalyst and Semiconductor on Photocatalytic Hydrogen Evolution Activity in Cobaloxime/CdS Hybrid Systems. ACS Applied Materials & Interfaces, 2017, 9, 23230-23237.	4.0	31
331	Hâ€Bondsâ€Assisted Molecular Order Manipulation of Nonfullerene Acceptors for Efficient Nonannealed Organic Solar Cells. Advanced Energy Materials, 2020, 10, 1903650.	10.2	31
332	Fabrication of coreâ€“shell structured mesoporous silica nanospheres with dually oriented mesochannels through pore engineering. Journal of Materials Chemistry A, 2014, 2, 8118-8125.	5.2	30
333	Two-step thermochemical cycles for CO2 splitting on Zr-doped cobalt ferrite supported on silica. Solar Energy, 2015, 116, 133-143.	2.9	30
334	Substrateâ€“Electrode Interface Engineering by an Electron-Transport Layer in Hematite Photoanode. ACS Applied Materials & Interfaces, 2016, 8, 7086-7091.	4.0	30
335	Reevaluation of the stability of G-quadruplex structures under crowding conditions. Biochimie, 2016, 121, 204-208.	1.3	30
336	Spatial distribution of active sites on a ferroelectric PbTiO₃ photocatalyst for photocatalytic hydrogen production. Faraday Discussions, 2017, 198, 463-472.	1.6	30
337	Exploration of the intrinsic factors limiting the photocurrent density in ferroelectric BiFeO₃ thin film. Journal of Materials Chemistry A, 2020, 8, 6863-6873.	5.2	30
338	Water Oxidation on TiO₂: A Comparative DFT Study of 1e^{â€“}, 2e^{â€“}, and 4e^{â€“} Processes on Rutile, Anatase, and Brookite. Journal of Physical Chemistry C, 2020, 124, 8094-8100.	1.5	30
339	Probing of coupling effect induced plasmonic charge accumulation for water oxidation. National Science Review, 2021, 8, nwaa151.	4.6	30
340	Some Insights into the Preparation of Pt/Â-Al2O3Catalysts for the Enantioselective Hydrogenation of Î±-Ketoesters. Topics in Catalysis, 2003, 25, 63-70.	1.3	29
341	Molybdenum containing surface complex for olefin epoxidation. New Journal of Chemistry, 2003, 27, 319-323.	1.4	29
342	Synthesis of mesoporous aluminosilicates with low Si/Al ratios using a single-source molecular precursor under acidic conditions. Journal of Porous Materials, 2006, 13, 187-193.	1.3	29

#	Article	IF	Citations
343	Enhanced thermostability of enzymes accommodated in thermo-responsive nanopores. Chemical Science, 2012, 3, 3398.	3.7	29
344	Halide perovskites for light emission and artificial photosynthesis: Opportunities, challenges, and perspectives. EcoMat, 2021, 3, e12074.	6.8	29
345	Post-grafting preparation of large-pore mesoporous materials with localized high content titanium doping. Journal of Materials Chemistry, 2005, 15, 661.	6.7	28
346	Controlling Reaction Pathways for Alcohol Dehydration and Dehydrogenation over FeSBA-15 Catalysts. Catalysis Letters, 2007, 117, 18-24.	1.4	28
347	Organotemplate-free and one-pot fabrication of nano-rod assembled plate-like micro-sized mordenite crystals. Journal of Materials Chemistry, 2012, 22, 6564.	6.7	28
348	Promoted activity of Cr(Salen) in a nanoreactor for kinetic resolution of terminal epoxides. Chemical Science, 2012, 3, 2864.	3.7	28
349	Relation between the Photocatalytic and Photoelectrocatalytic Performance for the Particulate Semiconductor-Based Photoconversion Systems with Surface Phase Junction Structure. Journal of Physical Chemistry C, 2015, 119, 22460-22464.	1.5	28
350	Nanostructured hybrid NiFeOOH/CNT electrocatalysts for oxygen evolution reaction with low overpotential. RSC Advances, 2016, 6, 74536-74544.	1.7	28
351	Aminosilane as a Molecular Linker between the Electron-Transport Layer and Active Layer for Efficient Inverted Polymer Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 13390-13395.	4.0	28
352	Synthesis of Chiral Trispirocyclic Oxindoles via Organic-Base/Au(I)-Catalyzed Sequential Reactions. ACS Catalysis, 2018, 8, 10180-10189.	5.5	28
353	Preparation and characterization of ordered mesoporous carbons on SBA-15 template. Journal of Materials Chemistry, 2006, 16, 1350.	6.7	27
354	Highly active water oxidation on nanostructured biomimetic calcium manganese oxide catalysts. Journal of Materials Chemistry A, 2016, 4, 6585-6594.	5.2	27
355	Unique homoâ€“heterojunction synergistic system consisting of stacked BiOCl nanoplate/Znâ€“Cr layered double hydroxide nanosheets promoting photocatalytic conversion of CO₂ into solar fuels. Chemical Communications, 2018, 54, 5126-5129.	2.2	27
356	A Hydrogen Farm Strategy for Scalable Solar Hydrogen Production with Particulate Photocatalysts. Angewandte Chemie, 2020, 132, 9740-9745.	1.6	27
357	Deeper Insight into the Role of Organic Ammonium Cations in Reducing Surface Defects of the Perovskite Film. Angewandte Chemie - International Edition, 2022, 61, .	7.2	27
358	Title is missing!. Catalysis Letters, 1999, 63, 167-171.	1.4	26
359	Carbon Monoxide Adsorption on Molybdenum Phosphides:Â Fourier Transform Infrared Spectroscopic and Density Functional Theory Studies. Journal of Physical Chemistry B, 2003, 107, 13698-13702.	1.2	26
360	Theoretical insight into the roles of cocatalysts in the Niâ€“NiO/Î²-Ga₂O₃ photocatalyst for overall water splitting. Journal of Materials Chemistry A, 2015, 3, 10309-10319.	5.2	26

#	Article	IF	Citations
361	Enhancing the catalytic activity of Ru NPs deposited with carbon species in yolkâ€“shell nanostructures. Journal of Materials Chemistry A, 2016, 4, 10956-10963.	5.2	26
362	Band Structure Engineering: Insights from Defects, Band Gap, and Electron Mobility, from Study of Magnesium Tantalate. Journal of Physical Chemistry C, 2016, 120, 6930-6937.	1.5	26
363	Using Pd as a Cocatalyst on GaNâ€“ZnO Solid Solution for Visible-Light-Driven Overall Water Splitting. Catalysis Letters, 2018, 148, 933-939.	1.4	26
364	Enantioselective Reactions of 2-Sulfonylalkyl Phenols with Allenic Esters: Dynamic Kinetic Resolution and [4+2] Cycloaddition Involving ortho -Quinone Methide Intermediates. Angewandte Chemie, 2017, 129, 3743-3747.	1.6	25
365	High-Performance Solar Redox Flow Battery toward Efficient Overall Splitting of Hydrogen Sulfide. ACS Energy Letters, 2020, 5, 597-603.	8.8	25
366	Enormous Promotion of Photocatalytic Activity through the Use of Near-Single Layer Covalent Organic Frameworks. CCS Chemistry, 2022, 4, 2429-2439.	4.6	25
367	Photoassisted Oxygen Reduction Reaction in H₂â€“O₂ Fuel Cells. Angewandte Chemie, 2016, 128, 14968-14971.	1.6	25
368	Amino acid assisted synthesis of mesoporous TiO2 nanocrystals for high performance dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 10438.	6.7	24
369	Modification of supported Pd catalysts by alkalic salts in the selective racemization and dynamic kinetic resolution of primary amines. Catalysis Science and Technology, 2014, 4, 464-471.	2.1	24
370	Shape and composition control of Bi₁₉S₂₇(Br_{3â^'x},I_x) alloyed nanowires: the role of metal ions. Chemical Science, 2015, 6, 4615-4622.	3.7	24
371	Enhancement effects of dopants and SiO2 support on mixed metal ferrites based two-step thermochemical water splitting. Solar Energy, 2017, 144, 643-659.	2.9	24
372	Cooperative Activation of Cobaltâ€“Salen Complexes for Epoxide Hydration Promoted on Flexible Porous Organic Frameworks. Chemistry - A European Journal, 2017, 23, 11504-11508.	1.7	24
373	The noncovalent dimerization of a G-quadruplex/hemin DNAzyme improves its biocatalytic properties. Chemical Science, 2020, 11, 8846-8853.	3.7	24
374	Highly dispersed Cd cluster supported on TiO2 as an efficient catalyst for CO2 hydrogenation to methanol. Chinese Journal of Catalysis, 2022, 43, 761-770.	6.9	24
375	Systematic morphology and phase control of Mg-ptcda coordination polymers by Ostwald ripening and self-templating. Journal of Materials Chemistry, 2012, 22, 8470.	6.7	23
376	A facile two-step method for fabrication of plate-like WO₃ photoanode under mild conditions. Faraday Discussions, 2014, 176, 185-197.	1.6	23
377	Higher-order human telomeric G-quadruplex DNA metalloenzyme catalyzed Dielsâ€“Alder reaction: an unexpected inversion of enantioselectivity modulated by K⁺ and NH₄⁺ ions. Chemical Communications, 2015, 51, 13174-13177.	2.2	23
378	A Twoâ€Stage Annealing Strategy for Crystallization Control of CH₃NH₃PbI₃ Films toward Highly Reproducible Perovskite Solar Cells. Small, 2018, 14, e1800181.	5.2	23

#	Article	IF	Citations
379	Simultaneous hole transport and defect passivation enabled by a dopant-free single polymer for efficient and stable perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 21036-21043.	5.2	23
380	Unravelling the water oxidation mechanism on NaTaO₃-based photocatalysts. Journal of Materials Chemistry A, 2020, 8, 6812-6821.	5.2	23
381	Spatial Separation of Photogenerated Charges on Wellâ€Defined Bismuth Vanadate Square Nanocrystals. Small, 2022, 18, e2103245.	5.2	23
382	Photoelectrocatalytic degradation of refractory pollutants over WO3/W network photoelectrode with heterophase junction for enhancing mass transportation and charge separation. Applied Catalysis B: Environmental, 2022, 309, 121292.	10.8	23
383	Enhancement of Plasmonâ€Induced Photoelectrocatalytic Water Oxidation over Au/TiO₂ with Lithium Intercalation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	23
384	Study of the Phase Transformation of Single Particles of Ga₂O₃ by UVâ€Raman Spectroscopy and Highâ€Resolution TEM. Chemistry - an Asian Journal, 2013, 8, 2189-2195.	1.7	22
385	Catalytic performance of different types of iron zeolites in N2O decomposition. Chinese Journal of Catalysis, 2013, 34, 876-888.	6.9	22
386	Higherâ€Order Human Telomeric Gâ€Quadruplex DNA Metalloenzymes Enhance Enantioselectivity in the Dielsâ€“Alder Reaction. ChemBioChem, 2015, 16, 618-624.	1.3	22
387	Iodideâ€Promoted Dehydrogenation of Formic Acid on a Rhodium Complex. European Journal of Inorganic Chemistry, 2016, 2016, 490-496.	1.0	22
388	A tetragonal tungsten bronze-type photocatalyst: Ferro-paraelectric phase transition and photocatalysis. Chinese Journal of Catalysis, 2016, 37, 1257-1262.	6.9	22
389	Surfaceâ€Polarityâ€Induced Spatial Charge Separation Boosts Photocatalytic Overall Water Splitting on GaN Nanorod Arrays. Angewandte Chemie, 2020, 132, 945-952.	1.6	22
390	The Polarization Effect in Surfaceâ€Plasmonâ€Induced Photocatalysis on Au/TiO₂ Nanoparticles. Angewandte Chemie, 2020, 132, 18375-18380.	1.6	22
391	Relation between Water Oxidation Activity and Coordination Environment of C,N-Coordinated Mononuclear Co Catalyst. ACS Catalysis, 2022, 12, 491-496.	5.5	22
392	Tuning Exciton Recombination Pathways in Inorganic Bismuth-Based Perovskite for Broadband Emission. Energy Material Advances, 2022, 2022, .	4.7	22
393	Identification of Fe2(Î¼-O) and Fe2(Î¼-O)2 sites in Fe/ZSM-35 by in situ resonance Raman spectroscopy. Journal of Catalysis, 2013, 301, 77-82.	3.1	21
394	Charge-Sensitive Surface Optical Phonon in CdS Quantum Dots Studied by Resonant Raman Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 30269-30273.	1.5	21
395	A non-fullerene acceptor with all â€œAâ€•units realizing high open-circuit voltage solution-processed organic photovoltaics. Journal of Materials Chemistry A, 2014, 2, 2657.	5.2	21
396	A highly enantioselective thiolation of sulfonyl indoles to access 3-sec-sulfur-substituted indoles in water. Chemical Communications, 2016, 52, 96-99.	2.2	21

#	Article	IF	Citations
397	Unraveling the Kinetics of Photocatalytic Water Oxidation on WO₃. Journal of Physical Chemistry Letters, 2020, 11, 412-418.	2.1	21
398	Intrinsic photocatalytic water oxidation activity of Mn-doped ferroelectric BiFeO3. Chinese Journal of Catalysis, 2021, 42, 945-952.	6.9	21
399	Solventâ€Actuated Selfâ€Assembly of Amphiphilic Holeâ€Transporting Polymer Enables Bottomâ€Surface Passivation of Perovskite Film for Efficient Photovoltaics. Advanced Energy Materials, 2021, 11, 2100493.	10.2	21
400	EPR study of charge separation associated states and reversibility of surface bound superoxide radicals in SrTiO3 photocatalyst. Journal of Energy Chemistry, 2022, 70, 388-393.	7.1	21
401	Insights into the Selectivity Determinant and Rate-Determining Step of CO₂ Hydrogenation to Methanol. Journal of Physical Chemistry C, 2022, 126, 10399-10407.	1.5	21
402	A wide visible light driven complex perovskite Ba(Mg_{1/3}Ta_{2/3})O_{3â^'x}N_y photocatalyst for water oxidation and reduction. Journal of Materials Chemistry A, 2017, 5, 18870-18877.	5.2	20
403	Bimodal hole transport in bulk BiVO₄ from computation. Journal of Materials Chemistry A, 2018, 6, 3714-3723.	5.2	20
404	PTB7:PC₆₁BM Bulk Heterojunction-Based Photocathodes for Efficient Hydrogen Production in Aqueous Solution. Chemistry of Materials, 2019, 31, 1928-1935.	3.2	20
405	Strategies and Methods of Modulating Nitrogen-Incorporated Oxide Photocatalysts for Promoted Water Splitting. Accounts of Materials Research, 2022, 3, 449-460.	5.9	20
406	Tuning the Anisotropic Facet of Lead Chromate Photocatalysts to Promote Spatial Charge Separation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	20
407	Transition metal (Ni, Fe, and Cu) hydroxides enhanced Î±-Fe₂O₃photoanode-based photofuel cell. RSC Advances, 2014, 4, 47383-47388.	1.7	19
408	Photo-induced H2 production from a CH3OH-H2O solution at insulator surface. Scientific Reports, 2015, 5, 13475.	1.6	19
409	Photoelectrochemical regeneration of all vanadium redox species for construction of a solar rechargeable flow cell. Journal of Energy Chemistry, 2018, 27, 278-282.	7.1	19
410	Integration of Fe_xS electrocatalysts and simultaneously generated interfacial oxygen vacancies to synergistically boost photoelectrochemical water splitting of Fe₂O₃ photoanodes. Chemical Communications, 2018, 54, 13817-13820.	2.2	19
411	Surface state modulation for size-controllable photodeposition of noble metal nanoparticles on semiconductors. Journal of Materials Chemistry A, 2020, 8, 21094-21102.	5.2	19
412	Nonfullerene Bulk Heterojunctionâ€Based Photocathodes for Highly Efficient Solar Hydrogen Production in Acidic and Neutral Solutions. Advanced Functional Materials, 2020, 30, 2003399.	7.8	19
413	Mechanistic Studies on Photocatalytic Overall Water Splitting over Ga₂O₃-Based Photocatalysts by Operando MS-FTIR Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 6029-6033.	2.1	19
414	Dopant-free polymer/2D/3D perovskite solar cells with high stability. Nano Energy, 2021, 90, 106521.	8.2	19

#	Article	IF	Citations
415	Entrapment of metal nanoparticles within nanocages of mesoporous silicas aided by co-surfactants. Journal of Materials Chemistry, 2012, 22, 21045.	6.7	18
416	Deep UV resonance Raman spectroscopic study of CnF2n+2molecules: the excitation of C-C Ïƒ bond. Journal of Raman Spectroscopy, 2013, 44, 266-269.	1.2	18
417	High efficiency organic/a-Si hybrid tandem solar cells with complementary light absorption. Journal of Materials Chemistry A, 2014, 2, 15303.	5.2	18
418	Ionic liquids with variable cations as cathode interlayer for conventional polymer solar cells. Organic Electronics, 2017, 42, 387-392.	1.4	18
419	A Dispiroâ€Type Fluoreneâ€Indenofluoreneâ€Centered Hole Transporting Material for Efficient Planar Perovskite Solar Cells. Solar Rrl, 2018, 2, 1800048.	3.1	18
420	Tandem one-pot CO₂ reduction by PMHS and silyloxycarbonylation of aryl/vinyl halides to access carboxylic acids. Chemical Communications, 2018, 54, 11574-11577.	2.2	18
421	Lowering Molecular Symmetry To Improve the Morphological Properties of the Holeâ€Transport Layer for Stable Perovskite Solar Cells. Angewandte Chemie, 2018, 130, 12709-12713.	1.6	18
422	Photocatalytic Facet Selectivity in BiVO4 Nanoparticles: Polaron Electronic Structure and Thermodynamic Stability Considerations for Photocatalysis. Journal of Physical Chemistry C, 2019, 123, 20142-20151.	1.5	18
423	Blocking backward reaction on hydrogen evolution cocatalyst in a photosystem II hybrid Z-scheme water splitting system. Chinese Journal of Catalysis, 2019, 40, 486-494.	6.9	18
424	Laser-generated BiVO4 colloidal particles with tailoring size and native oxygen defect for highly efficient gas sensing. Journal of Hazardous Materials, 2020, 392, 122471.	6.5	18
425	Unusual calcination temperature dependent tetragonalâ€“monoclinic transitions in rare earth-doped zirconia nanocrystals. Physical Chemistry Chemical Physics, 2003, 5, 4008-4014.	1.3	17
426	Enhancing the Performance of Amorphousâ€Silicon Photoanodes for Photoelectrocatalytic Water Oxidation. ChemSusChem, 2015, 8, 3987-3991.	3.6	17
427	Unusual Charge Distribution on the Facet of a SrTiO₃ Nanocube under Light Irradiation. Journal of Physical Chemistry Letters, 2019, 10, 1212-1216.	2.1	17
428	Interface engineering with an AlO_x dielectric layer enabling an ultrastable Ta₃N₅ photoanode for photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2021, 9, 11285-11290.	5.2	17
429	Blocking the non-selective sites through surface plasmon-induced deposition of metal oxide on Au/TiO2 for CO-PROX reaction. Chem Catalysis, 2021, 1, 456-466.	2.9	17
430	Isomeric anthracene diimide polymers. Chemical Science, 2021, 12, 2848-2852.	3.7	17
431	Crystal facet modulation of Bi₂WO₆ microplates for spatial charge separation and inhibiting reverse reaction. Chemical Communications, 2021, 57, 11637-11640.	2.2	17
432	FTIR study of CO and NO adsorbed on nitrided CoMo/Al2O3 catalysts. Physical Chemistry Chemical Physics, 2000, 2, 3313-3317.	1.3	16

#	Article	IF	Citations
433	Three dimensional palladium nanoflowers with enhanced electrocatalytic activity towards the anodic oxidation of formic acid. Journal of Materials Chemistry A, 2015, 3, 973-977.	5.2	16
434	Asymmetric hydrogenation by RuCl₂(R-Binap)(dmf)_n encapsulated in silica-based nanoreactors. Catalysis Science and Technology, 2015, 5, 666-672.	2.1	16
435	Dual Extraction of Photogenerated Electrons and Holes from a Ferroelectric Sr_{0.5}Ba_{0.5}Nb₂O₆ Semiconductor. ACS Applied Materials & Interfaces, 2016, 8, 13857-13864.	4.0	16
436	Decorating mesoporous silicon with amorphous metalâ€“phosphorous-derived nanocatalysts towards enhanced photoelectrochemical water reduction. Journal of Materials Chemistry A, 2016, 4, 14960-14967.	5.2	16
437	Roles of adsorption sites in electron transfer from CdS quantum dots to molecular catalyst cobaloxime studied by time-resolved spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 17389-17397.	1.3	16
438	Bandgap Engineering of Dual Acceptor-Containing Naphthalene Diimide Polymers for All-Polymer Solar Cells. ACS Sustainable Chemistry and Engineering, 2018, 6, 16005-16010.	3.2	16
439	Reducing the surface defects of Ta₃N₅ photoanode towards enhanced photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2020, 8, 23274-23283.	5.2	16
440	Formation of multifaceted nano-groove structure on rutile TiO2 photoanode for efficient electron-hole separation and water splitting. Journal of Energy Chemistry, 2022, 65, 19-25.	7.1	16
441	Atomically unraveling the dependence of surface microstructure on plasmon-induced hydrogen evolution on Au/SrTiO3. Nano Energy, 2022, 91, 106638.	8.2	16
442	Platinum Group Metal Catalyst (RuO_x, PtO_x, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td Solar Thermochemical CO₂ Splitting. ACS Catalysis, 2022, 12, 7719-7736.	5.5	16
443	Fourier Transform Infrared Spectroscopic Study on the Adsorption of Ethyl Pyruvate on Pt/Al2O3:â€‰ Side Reactions Suppressed by Adsorbed Hydrogen and Cinchonidine. Journal of Physical Chemistry C, 2007, 111, 823-829.	1.5	15
444	Fabrication of multilayered TiO2 nanotube arrays and separable nanotube segments. Journal of Materials Chemistry A, 2014, 2, 4510.	5.2	15
445	Hydrodesulfurization of 4,6-DMDBT on multi-metallic bulk catalyst NiAlZnMoW: Effect of Zn. Applied Catalysis A: General, 2015, 504, 319-327.	2.2	15
446	Asymmetric hydrogenation in nanoreactors with encapsulated Rh-MonoPhos catalyst. Green Chemistry, 2015, 17, 1702-1709.	4.6	15
447	Fabrication of Efficient Hydrogenation Nanoreactors by Modifying the Freedom of Ultrasmall Platinum Nanoparticles within Yolkâ€“Shell Nanospheres. Chemistry - A European Journal, 2015, 21, 10490-10496.	1.7	15
448	Crucial Roles of Electronâ€“Proton Transport Relay in the Photosystem II-Photocatalytic Hybrid System for Overall Water Splitting. Journal of Physical Chemistry C, 2017, 121, 2605-2612.	1.5	15
449	Solventâ€Free Synthesis of <scp>ITQ</scp>â€12, <scp>ITQ</scp>â€13, and <scp>ITQ</scp>â€17 Zeolites. Chinese Journal of Chemistry, 2017, 35, 572-576.	2.6	15
450	Enantioselective Olefin Cyclopropanation with G-Quadruplex DNA-Based Biocatalysts. ACS Catalysis, 2020, 10, 6561-6567.	5.5	15

#	Article	IF	Citations
451	Surface Passivation Effect of Ferrihydrite with Hole-Storage Ability in Water Oxidation on BiVO₄ Photoanode. Journal of Physical Chemistry C, 2021, 125, 8369-8375.	1.5	15
452	Palladium-Catalyzed Asymmetric Allylic Câ€“H Functionalization for the Synthesis of Hydroquinolines through Intermolecular [4+2] Cycloadditions. ACS Catalysis, 2021, 11, 10913-10922.	5.5	15
453	Photocatalytic H₂ production on TiO₂ with tuned phase structure via controlling the phase transformation. Journal of Materials Research, 2013, 28, 394-399.	1.2	14
454	Conventional polymer solar cells with power conversion efficiencies increased to >9% by a combination of methanol treatment and an anionic conjugated polyelectrolyte interface layer. RSC Advances, 2014, 4, 50988-50992.	1.7	14
455	K₈Nb₇P₇O₃₉: a new type of complicated incommensurately modulated structure and photoluminescence properties of Eu³⁺-doped solid solutions. Journal of Materials Chemistry C, 2016, 4, 11436-11448.	2.7	14
456	Relations between the loop transposition of DNA G-quadruplex and the catalytic function of DNAzyme. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1913-1920.	1.1	14
457	A hydrated amorphous iron oxide nanoparticle as active water oxidation catalyst. Chinese Journal of Catalysis, 2019, 40, 38-42.	6.9	14
458	Water-stable Mn-based MOF nanosheet as robust visible-light-responsive photocatalyst in aqueous solution. Science China Chemistry, 2020, 63, 1756-1760.	4.2	14
459	Effects of the interfacial defects in Au/ TiO2 on plasmon-induced water oxidation. Journal of Chemical Physics, 2020, 152, 194702.	1.2	14
460	Biomimetic approach to the catalytic enantioselective synthesis of tetracyclic isochroman. Nature Communications, 2021, 12, 4958.	5.8	14
461	Heterostructure of Ta3N5 nanorods and CaTaO2N nanosheets fabricated using a precursor template to boost water splitting under visible light. Journal of Energy Chemistry, 2022, 67, 27-33.	7.1	14
462	A Dualâ€Ligand Strategy to Regulate the Nucleation and Growth of Lead Chromate Photoanodes for Photoelectrochemical Water Splitting. Advanced Materials, 2022, 34, e2110610.	11.1	14
463	A novel reaction on a Mo2N/Î³-Al2O3 catalyst: low-temperature isomerization of but-1-ene. Chemical Communications, 2001, , 701-702.	2.2	13
464	Preparation of Znâ€“Coâ€“O mixed-metal oxides nanoparticles through a facile coordination polymer based process. RSC Advances, 2013, 3, 4081.	1.7	13
465	Investigation on the Influence of Sc Ions Doping on the Structure and Performance of Ta 3 N 5 Photocatalyst for Water Oxidation under Visible Light Irradiation. Solar Rrl, 2020, 4, 1900445.	3.1	13
466	Visualizing the Spatial Heterogeneity of Electron Transfer on a Metallic Nanoplate Prism. Nano Letters, 2021, 21, 8901-8909.	4.5	13
467	Surface-enhanced Raman scattering of xanthopterin adsorbed on colloidal silver. Journal of Raman Spectroscopy, 2001, 32, 1004-1007.	1.2	12
468	TPR and XPS studies of NaCl modified VCe0.2Cu0.8catalysts for direct propylene epoxidation. Reaction Kinetics and Catalysis Letters, 2005, 86, 219-224.	0.6	12

#	Article	IF	Citations
469	Catalytic Performance of the Sbâ€“V Mixed Oxide on Sbâ€“Vâ€“O/SiO2 Catalysts in Methane Selective Oxidation to Formaldehyde. Catalysis Letters, 2006, 106, 89-93.	1.4	12
470	Structural Modification of TiO2 Nanorod Films with an Influence on the Photovoltaic Efficiency of a Dye-Sensitized Solar Cell (DSSC). Journal of Inorganic and Organometallic Polymers and Materials, 2013, 23, 787-792.	1.9	12
471	A Short-Wavelength Raman Optical Activity Spectrometer with Laser Source at 457â€‰nm for the Characterization of Chiral Molecules. Applied Spectroscopy, 2017, 71, 2211-2217.	1.2	12
472	Probing the interaction of copper cofactor and azachalcone substrate with G-quadruplex of DNA based Diels-Alderase by site-specific fluorescence quenching titration. Biochimie, 2018, 146, 20-27.	1.3	12
473	Iron/Quinone-based all-in-one solar rechargeable flow cell for highly efficient solar energy conversion and storage. Nano Energy, 2020, 76, 104907.	8.2	12
474	Crystallinity and Orientation Manipulation of Anthracene Diimide Polymers for Allâ€Polymer Solar Cells. Advanced Functional Materials, 2021, 31, 2011049.	7.8	12
475	Construction of a gradient-type 2D/3D perovskite structure for subsurface passivation and energy-level alignment of an MAPbI₃ film. Journal of Materials Chemistry A, 2021, 9, 26086-26094.	5.2	12
476	Title is missing!. Catalysis Surveys From Asia, 2003, 7, 103-119.	1.0	11
477	Effect of Annealing Temperature on TiO2 Nanorod Films Prepared by dc Reactive Magnetron Sputtering for Dye-Sensitized Solar Cells. Journal of Inorganic and Organometallic Polymers and Materials, 2011, 21, 770-776.	1.9	11
478	Construction of anti-1,2-diols bearing chiral tertiary alcohol moiety using free hydroxyacetone as aldol donor by imidazole-based prolineamide catalyst. Tetrahedron, 2014, 70, 6561-6568.	1.0	11
479	Performance Enhancement of Ternary Polymer Solar Cells Induced by Tetrafluorotetracyanoquinodimethane Doping. Chemistry of Materials, 2019, 31, 7650-7656.	3.2	11
480	An organic-base catalyzed asymmetric 1,4-addition of tritylthiol to in situ generated aza-o-quinone methides at the H₂O/DCM interface. Chemical Communications, 2019, 55, 2668-2671.	2.2	11
481	Divergent Asymmetric Reactions of ortho â€Quinone Methides with Î±â€Thiocyanato Indanones for the Synthesis of Spiroâ€and Fusedâ€Indanones. Chemistry - A European Journal, 2021, 27, 735-739.	1.7	11
482	Reducing non-radiative recombination energy loss via a fluorescence intensifier for efficient and stable ternary organic solar cells. Materials Horizons, 2021, 8, 2335-2342.	6.4	11
483	Highly Selective Detection of K⁺ Based on a Dimerized G-Quadruplex DNAzyme. Analytical Chemistry, 2021, 93, 6907-6912.	3.2	11
484	Efficient non-fullerene organic solar cells with low-temperature solution-processing ferrous oxides as hole transport layer. Organic Electronics, 2021, 93, 106139.	1.4	11
485	Modulating acid-base properties of ZIF-8 by thermal-induced structure evolution. Journal of Catalysis, 2022, 406, 165-173.	3.1	11
486	Adsorption and reaction of thiophene and H2S on Mo2C/Al2O3 catalyst studied by in situ FT-IR spectroscopy. Physical Chemistry Chemical Physics, 2004, 6, 5596.	1.3	10

#	Article	IF	Citations
487	Note: Deep ultraviolet Raman spectrograph with the laser excitation line down to 177.3 nm and its application. Review of Scientific Instruments, 2014, 85, 046105.	0.6	10
488	Highly stabilized perovskite solar cell prepared using vacuum deposition. RSC Advances, 2016, 6, 93525-93531.	1.7	10
489	A Spirobixantheneâ€Based Dendrimeric Holeâ€Transporting Material for Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900367.	3.1	10
490	Surface assembly of cobalt species for simultaneous acceleration of interfacial charge separation and catalytic reactions on Cd0.9Zn0.1S photocatalyst. Chinese Journal of Catalysis, 2021, 42, 1004-1012.	6.9	10
491	Room Temperature Allenation of Terminal Alkynes with Aldehydes. Angewandte Chemie - International Edition, 2021, 60, 25708-25713.	7.2	10
492	Urea Derivativeâ€Promoted CsPbI₂Br Perovskite Solar Cells with High Openâ€Circuit Voltage. Solar Rrl, 2022, 6, 2101057.	3.1	10
493	Ammonia-treated activated carbon as support of Ru-Ba catalyst for ammonia synthesis. Reaction Kinetics and Catalysis Letters, 2004, 83, 39-45.	0.6	9
494	Structure and Basicity of Microporous Titanosilicate ETS-10 and Vanadium-Containing ETS-10. Journal of Physical Chemistry C, 2012, 116, 17124-17133.	1.5	9
495	Hydrogen bonding in homochiral dimers of hydroxyesters studied by Raman optical activity spectroscopy. Journal of Raman Spectroscopy, 2012, 43, 503-513.	1.2	9
496	Highly Enantioselective Reactions of Cyclohexanone and Î²,Î³â€Unsaturated Î±â€Keto Ester: The Tuning of Chemoâ€selectivities by Secondary and Primary Amine Catalysts. Chinese Journal of Chemistry, 2014, 32, 985-990.	2.6	9
497	Easily accessible conjugated pyrene sulfonates as cathode interfacial materials for polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 657-662.	5.2	9
498	Achieving Simultaneous CO₂ and H₂S Conversion via a Coupled Solarâ€Driven Electrochemical Approach on Nonâ€Preciousâ€Metal Catalysts. Angewandte Chemie, 2018, 130, 3531-3535.	1.6	9
499	Allylsilane Reagentâ€Controlled Divergent Asymmetric Catalytic Reactions of 2â€Naphthoquinoneâ€1â€methide. Chemistry - A European Journal, 2020, 26, 14173-14180.	1.7	9
500	Cobaltâ€Catalyzed Regioâ€and Stereoselective Hydroboration of Allenes. Angewandte Chemie, 2020, 132, 6337-6342.	1.6	9
501	Mechanistic Understanding of Efficient Photocatalytic H₂ Evolution on Twoâ€Dimensional Layered Lead Iodide Hybrid Perovskites. Angewandte Chemie, 2021, 133, 7452-7457.	1.6	9
502	Development of Sn2+-based oxyfluoride photocatalyst with visible light response of ca. 650Ânm via strengthened hybridization of Sn 5s and O 2p orbitals. Journal of Energy Chemistry, 2021, 63, 385-390.	7.1	9
503	A novel synthetic strategy of Fe-ZSM-35 with pure framework Fe species and its formation mechanism. Inorganic Chemistry Frontiers, 2018, 5, 2031-2037.	3.0	9
504	Unraveling Chargeâ€Separation Mechanisms in Photocatalyst Particles by Spatially Resolved Surface Photovoltage Techniques. Angewandte Chemie, 2022, 134, .	1.6	9

#	Article	IF	Citations
505	Coadsorption of trimethyl phosphine and thiocyanate on colloidal silver: a SERS study combined with theoretical calculations. Journal of Raman Spectroscopy, 2009, 40, 387-393.	1.2	8
506	Spectroscopic Evidence of Extra-Framework Heterometallic Oxo-Clusters in Fe/Ga-ZSM-5 Catalysts. Journal of Physical Chemistry Letters, 2011, 2, 190-195.	2.1	8
507	Freestanding silicon films formed on ionic liquid surfaces. Journal of Materials Chemistry A, 2013, 1, 55-58.	5.2	8
508	Enhanced photocatalytic water oxidation on ZnO photoanodes in a borate buffer electrolyte. Catalysis Science and Technology, 2013, 3, 1699.	2.1	8
509	An amphiphilic organic catalyst for the direct asymmetric Michael addition of cycloketone to nitroolefins in water. Chinese Journal of Catalysis, 2014, 35, 1008-1011.	6.9	8
510	Deep UV resonance Raman spectroscopic study on electronâ€phonon coupling in hexagonal IIIâ€nitride wide bandgap semiconductors. Journal of Raman Spectroscopy, 2016, 47, 884-887.	1.2	8
511	Efficient and stable polymer solar cells with electrochemical deposition of CuSCN as an anode interlayer. RSC Advances, 2016, 6, 56845-56850.	1.7	8
512	Photo-induced self-formation of dual-cocatalysts on semiconductor surface. Chinese Journal of Catalysis, 2018, 39, 1730-1735.	6.9	8
513	Water enables an asymmetric cross reaction of Î±-keto acids with Î±-keto esters for the synthesis of quaternary isotetronic acids. Chemical Communications, 2019, 55, 12813-12816.	2.2	8
514	Highly Efficient Cyclic Dinucleotide Based Artificial Metalloribozymes for Enantioselective Friedelâ€“Crafts Reactions in Water. Angewandte Chemie - International Edition, 2020, 59, 3444-3449.	7.2	8
515	Palladium-catalyzed enantioselective linear allylic alkylation of vinyl benzoxazinanones: An inner-sphere mechanism. Chinese Journal of Catalysis, 2021, 42, 1227-1237.	6.9	8
516	Liberating photoinhibition through nongenetic drainage of electrons from photosynthesis. Natural Sciences, 2021, 1, e20210038.	1.0	8
517	Identifying the Role of the Local Charge Density on the Hydrogen Evolution Reaction of the Photoelectrode. Journal of Physical Chemistry Letters, 2021, 12, 10829-10836.	2.1	8
518	Photo-assisted sequential assembling of uniform metal nanoclusters on semiconductor support. IScience, 2022, 25, 103572.	1.9	8
519	Nonalloy Model-Based Ternary Organic Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 12461-12468.	4.0	8
520	Algebraic approach to stretching vibrational spectrum of H2S. Science Bulletin, 1999, 44, 1961-1964.	1.7	7
521	Kinetics of Photogenerated Electrons Involved in Photocatalytic Reaction of Methanol on Pt/TiO2. Chinese Journal of Chemical Physics, 2007, 20, 483-488.	0.6	7
522	Enhanced growth of crystalline-amorphous core-shell silicon nanowires by catalytic thermal CVD using in situ generated tin catalyst. Science China Chemistry, 2012, 55, 2573-2579.	4.2	7

#	Article	IF	Citations
523	Fabrication of ZnO with tunable morphology through a facile treatment of Zn-based coordination polymers. Science China Chemistry, 2015, 58, 411-416.	4.2	7
524	Enhancing photoresponsivity of self-powered UV photodetectors based on electrochemically reduced TiO₂ nanorods. RSC Advances, 2015, 5, 95939-95942.	1.7	7
525	Solarâ€toâ€Hydrogen Efficiency of 9.5â€‰% by using a Thinâ€Layer Platinum Catalyst and Commercial Amorphous Silicon Solar Cells. ChemCatChem, 2016, 8, 1713-1717.	1.8	7
526	Unveiling the Hydration Structure of Ferrihydrite for Hole Storage in Photoelectrochemical Water Oxidation. Angewandte Chemie, 2021, 133, 6765-6772.	1.6	7
527	Water-initiated hydrocarboxylation of terminal alkynes with CO₂ and hydrosilane. Chemical Communications, 2021, 57, 1230-1233.	2.2	7
528	Scalable solar water splitting using particulate photocatalysts. Current Opinion in Green and Sustainable Chemistry, 2022, 33, 100577.	3.2	7
529	Surface Phosphate Functionalization for Boosting Plasmon-Induced Water Oxidation on Au/TiO₂. Journal of Physical Chemistry C, 2022, 126, 5167-5174.	1.5	7
530	Alkali-hydrolysis of D-glucono-delta-lactone studied by chiral Raman and circular dichroism spectroscopies. Science in China Series B: Chemistry, 2009, 52, 552-558.	0.8	6
531	Controllable stereoinversion in DNA-catalyzed olefin cyclopropanation via cofactor modification. Chemical Science, 2021, 12, 7918-7923.	3.7	6
532	UV Resonance Raman Spectroscopic Identification of Titanium Atoms in the Framework of TS-1 Zeolite. Angewandte Chemie - International Edition, 1999, 38, 2220-2222.	7.2	6
533	Relation Between Coordination and Lewisâ€Acid Property of MOFâ€Derived Mononuclear Zn(II) Catalyst Toward Epoxide Hydroxylation. ChemCatChem, 2021, 13, 5236-5242.	1.8	6
534	Microcalorimetric and IR spectroscopic studies of CO adsorption on molybdenum nitride catalysts. Physical Chemistry Chemical Physics, 2003, 5, 1703-1707.	1.3	5
535	Multifunctional human serum albumin in the surfaceâ€enhanced Raman spectroscopy of porphyrin: demetalation promoter, molecular spacer and stabilizer. Journal of Raman Spectroscopy, 2010, 41, 1615-1620.	1.2	5
536	Synthesis and Photovoltaic Properties of Polythiophene Incorporating with 3,4â€Difluorothiophene Units. Chinese Journal of Chemistry, 2013, 31, 1385-1390.	2.6	5
537	A new Pb(<scp>iv</scp>)-based photocathode material Sr₂PbO₄with good light harvesting ability. Journal of Materials Chemistry A, 2015, 3, 12051-12058.	5.2	5
538	Efficiency enhancement of P3HT:PCBM polymer solar cells using oligomers DH4T as the third component. Science China Chemistry, 2015, 58, 1169-1175.	4.2	5
539	Enantiomeric Catalytic Formal Thiolation of 2,5â€Dimethylâ€3â€[1â€(arylsulfonyl)alkyl]pyrroles in an Oil/Water Biphasic System. European Journal of Organic Chemistry, 2016, 2016, 5826-5830.	1.2	5
540	Sub-2 nm cobalt oxide cluster catalyst supported on alumina for efficient water oxidation. Applied Catalysis A: General, 2016, 521, 154-159.	2.2	5

#	Article	IF	Citations
541	Fabrication of a Robust Tantalum Nitride Photoanode from a Flameâ€Heatingâ€Derived Compact Oxide Film. ChemPhotoChem, 2018, 2, 249-256.	1.5	5
542	Fluorescence Spectroscopic Insight into the Supramolecular Interactions in DNAâ€Based Enantioselective Sulfoxidation. ChemBioChem, 2018, 19, 2233-2240.	1.3	5
543	Stereostructural Elucidation of Glucose Phosphorylation by Raman Optical Activity. Journal of Physical Chemistry B, 2019, 123, 7794-7800.	1.2	5
544	A polymeric ionic liquid as a cathode interlayer of organic photovoltaics with improved reproducibility. Chemical Communications, 2019, 55, 2956-2959.	2.2	5
545	Surface defect passivation of Ta3N5 photoanode via pyridine grafting for enhanced photoelectrochemical performance. Journal of Chemical Physics, 2020, 153, 024705.	1.2	5
546	Methanol Steam Reforming over ZnO/ZnZrOx: Performance Enhanced with a Cooperative Effect. ChemCatChem, 2022, 14, .	1.8	5
547	Cationic Porphyrin-Mediated G-Quadruplex DNA Oxidative Damage: Regulated by the Initial Interplay between DNA and TMPyP4. Biochemistry, 2021, 60, 3707-3713.	1.2	5
548	Vâ€“Oâ€“Ag Linkages in VAgO_x Mixed Oxides for the Selective Oxidation of p-Xylene to p-Methyl Benzaldehyde. ACS Catalysis, 2022, 12, 3323-3332.	5.5	5
549	Aromatic bromination with hydrogen production on organic-inorganic hybrid perovskite-based photocatalysts under visible light irradiation. Chinese Journal of Catalysis, 2022, 43, 1805-1811.	6.9	5
550	Modulating surface charges of bismuth tantalum oxychloride nanoplates for promoting photogenerated charge separation. Journal of Materials Chemistry A, 2022, 10, 14293-14299.	5.2	5
551	Structure and base properties of calcined hydrotalcites. Chinese Journal of Chemistry, 1999, 17, 319-330.	2.6	4
552	Bifunctional donor polymers bearing amino pendant groups for efficient cathode interlayer-free polymer solar cells. Journal of Materials Chemistry A, 2018, 6, 19828-19833.	5.2	4
553	Embedding Sulfur Atoms in Decahedron Bismuth Vanadate Crystals with a Soft Chemical Approach for Expanding the Light Absorption Range. ChemCatChem, 2020, 12, 1585-1590.	1.8	4
554	Multiple methoxy-substituted hole transporter for inverted perovskite solar cells. Journal of Energy Chemistry, 2021, 56, 127-131.	7.1	4
555	Designing a Z-scheme system based on photocatalyst panels towards separated hydrogen and oxygen production from overall water splitting. Catalysis Science and Technology, 2022, 12, 572-578.	2.1	4
556	Deeper Insight into the Role of Organic Ammonium Cations in Reducing Surface Defects of the Perovskite Film. Angewandte Chemie, 2022, 134, .	1.6	4
557	Tip-induced directional charge separation on one-dimensional BiVO4 nanocones for asymmetric light absorption. Journal of Energy Chemistry, 2022, 72, 326-332.	7.1	4
558	Structural Engineering of Anthracene Diimide Polymers for Molecular Ordering Manipulation. Macromolecules, 2022, 55, 4102-4110.	2.2	4

#	Article	IF	Citations
559	Coupling effect between hole storage and interfacial charge transfer over ultrathin CoPi-modified hematite photoanodes. Dalton Transactions, 2022, 51, 9247-9255.	1.6	4
560	2D Conjugated Polyelectrolytes Possessing Identical Backbone with Activeâ€Layer Polymer as Cathode Interlayer for Organic Solar Cells. Macromolecular Rapid Communications, 2020, 41, 1900624.	2.0	3
561	Shallow Oxygen Substitution Defect to Deeper Defect Transformation Mechanism in Ta₃N₅ under Light Irradiation. Journal of Physical Chemistry Letters, 2021, 12, 3698-3704.	2.1	3
562	Understanding the factors governing the water oxidation reaction pathway of mononuclear and binuclear cobalt phthalocyanine catalysts. Chemical Science, 2022, 13, 8797-8803.	3.7	3
563	Title is missing!. Catalysis Letters, 2002, 84, 89-93.	1.4	2
564	Carboxylation of Toluene with CO2â€derived Dimethyl Carbonate over Amorphous Tiâ^'Zr Mixedâ€metal Oxide Catalysts. ChemCatChem, 2020, 12, 95-99.	1.8	2
565	Room Temperature Allenation of Terminal Alkynes with Aldehydes. Angewandte Chemie, 0, , .	1.6	2
566	Photo-induced carbon dioxide reduction on hexagonal tungsten oxide via an oxygen vacancies-involved process. Chinese Chemical Letters, 2023, 34, 107200.	4.8	2
567	Highly Efficient Cyclic Dinucleotide Based Artificial Metalloribozymes for Enantioselective Friedelâ€"Crafts Reactions in Water. Angewandte Chemie, 2020, 132, 3472-3477.	1.6	1
568	Direct synthesis of p-methyl benzaldehyde from acetaldehyde via an organic amine-catalyzed dehydrogenation mechanism. IScience, 2021, 24, 103028.	1.9	1
569	CO 2 Hydrogenation to Methanol over Cd 4 /TiO 2 Catalyst: Insight into Multifunctional Interface. ChemCatChem, 0, , .	1.8	1
570	The Carbon Source Effect on the Production of Ralstonia eutropha H16 and Proteomic Response Underlying Targeting the Bioconversion with Solar Fuels. Applied Biochemistry and Biotechnology, 2022, 194, 3212-3227.	1.4	1
571	Atomic Layer Deposition of Gold Nanoparticles with Controlled Size and Distribution on Titania Support. ChemNanoMat, 0, , .	1.5	1
572	Enhancement of Plasmonâ€Induced Photoelectrocatalytic Water Oxidation over Au/TiO₂ with Lithium Intercalation. Angewandte Chemie, 2022, 134, .	1.6	1
573	Controllable synthesis of straight and branched CdTe nanowires using CdO as precursor. , 2010, , .		0
574	RÃ¼cktitelbild: Photocatalytic Overall Water Splitting Promoted by an Î±-Î²â€...phase Junction on Ga2O3(Angew. Chem. 52/2012). Angewandte Chemie, 2012, 124, 13356-13356.	1.6	0
575	The Dalian National Laboratory for Clean Energy. Energy and Environmental Science, 2012, 5, 6277.	15.6	0
576	Controllable synthesis of silicon nano-particles using a one-step PECVD-ionic liquid strategy. Journal of Materials Chemistry A, 2015, 3, 10233-10237.	5.2	0

#	Article	IF	Citations
577	Introducing special issue on photocatalysis and photoelectrochemistry. Journal of Chemical Physics, 2021, 154, 190401.	1.2	0
578	Construction and Nanoscale Detection of Interfacial Charge Transfer of Elegant Z-Scheme WO/Au/InS Nanowire Arrays. Nano Letters, 2016, , .	4.5	0
579	Tuning the Anisotropic Facet of Lead Chromate Photocatalysts to Promote Spatial Charge Separation. Angewandte Chemie, 0, , .	1.6	0
580	Hydrogenation of Alkyl Carboxylic Acids with Tetrahydropyrimidine-Derived Iridium Complexes under Mild Conditions. ACS Catalysis, 0, , 9238-9243.	5.5	0