

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Photo-induced carbon dioxide reduction on hexagonal tungsten oxide via an oxygen vacancies-involved process. Chinese Chemical Letters, 2023, 34, 107200.	4.8	2
2	Enormous Promotion of Photocatalytic Activity through the Use of Near-Single Layer Covalent Organic Frameworks. CCS Chemistry, 2022, 4, 2429-2439.	4.6	25
3	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
4	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
5	Methanol Steam Reforming over ZnO/ZnZrOx: Performance Enhanced with a Cooperative Effect. ChemCatChem, 2022, 14, .	1.8	5
6	Atomically unraveling the dependence of surface microstructure on plasmon-induced hydrogen evolution on Au/SrTiO3. Nano Energy, 2022, 91, 106638.	8.2	16
7	Spatial Separation of Photogenerated Charges on Wellâ€Defined Bismuth Vanadate Square Nanocrystals. Small, 2022, 18, e2103245.	5.2	23
8	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
9	Scalable solar water splitting using particulate photocatalysts. Current Opinion in Green and Sustainable Chemistry, 2022, 33, 100577.	3.2	7
10	Photo-assisted sequential assembling of uniform metal nanoclusters on semiconductor support. IScience, 2022, 25, 103572.	1.9	8
11	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
12	Unraveling of cocatalysts photodeposited selectively on facets of BiVO4 to boost solar water splitting. Nature Communications, 2022, 13, 484.	5.8	156
13	Unraveling Chargeâ€Separation Mechanisms in Photocatalyst Particles by Spatially Resolved Surface Photovoltage Techniques. Angewandte Chemie, 2022, 134, .	1.6	9
14	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
15	Deeper Insight into the Role of Organic Ammonium Cations in Reducing Surface Defects of the Perovskite Film. Angewandte Chemie, 2022, 134, .	1.6	4
16	Unraveling Charge‣eparation Mechanisms in Photocatalyst Particles by Spatially Resolved Surface Photovoltage Techniques. Angewandte Chemie - International Edition, 2022, 61, .	7.2	44
17	Urea Derivativeâ€Promoted CsPbI ₂ Br Perovskite Solar Cells with High Open ircuit Voltage. Solar Rrl, 2022, 6, 2101057.	3.1	10
18	Modulating acid-base properties of ZIF-8 by thermal-induced structure evolution. Journal of Catalysis, 2022, 406, 165-173.	3.1	11

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19	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
20	V–O–Ag Linkages in VAgO <i>_x</i> Mixed Oxides for the Selective Oxidation of <i>p</i> -Xylene to <i>p</i> -Methyl Benzaldehyde. ACS Catalysis, 2022, 12, 3323-3332.	5.5	5
21	Surface Phosphate Functionalization for Boosting Plasmon-Induced Water Oxidation on Au/TiO ₂ . Journal of Physical Chemistry C, 2022, 126, 5167-5174.	1.5	7
22	Strategies and Methods of Modulating Nitrogen-Incorporated Oxide Photocatalysts for Promoted Water Splitting. Accounts of Materials Research, 2022, 3, 449-460.	5.9	20
23	Nonalloy Model-Based Ternary Organic Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 12461-12468.	4.0	8
24	Activating a Semiconductor–Liquid Junction via Laserâ€Derived Dual Interfacial Layers for Boosted Photoelectrochemical Water Splitting. Advanced Materials, 2022, 34, e2201140.	11.1	34
25	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
26	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
27	Relation between Water Oxidation Activity and Coordination Environment of C,N-Coordinated Mononuclear Co Catalyst. ACS Catalysis, 2022, 12, 491-496.	5.5	22
28	Recent advances and perspectives for solar-driven water splitting using particulate photocatalysts. Chemical Society Reviews, 2022, 51, 3561-3608.	18.7	273
29	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
30	Tuning Exciton Recombination Pathways in Inorganic Bismuth-Based Perovskite for Broadband Emission. Energy Material Advances, 2022, 2022, .	4.7	22
31	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
32	Enhancement of Plasmonâ€Induced Photoelectrocatalytic Water Oxidation over Au/TiO ₂ with Lithium Intercalation. Angewandte Chemie, 2022, 134, .	1.6	1
33	Structural Engineering of Anthracene Diimide Polymers for Molecular Ordering Manipulation. Macromolecules, 2022, 55, 4102-4110.	2.2	4
34	Enhancement of Plasmonâ€Induced Photoelectrocatalytic Water Oxidation over Au/TiO ₂ with Lithium Intercalation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	23
35	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
36	Coupling effect between hole storage and interfacial charge transfer over ultrathin CoPi-modified hematite photoanodes. Dalton Transactions, 2022, 51, 9247-9255.	1.6	4

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37	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
38	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
39	Insights into the Selectivity Determinant and Rate-Determining Step of CO ₂ Hydrogenation to Methanol. Journal of Physical Chemistry C, 2022, 126, 10399-10407.	1.5	21
40	Tuning the Anisotropic Facet of Lead Chromate Photocatalysts to Promote Spatial Charge Separation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	20
41	Platinum Group Metal Catalyst (RuO _{<i>x</i>} , PtO _{<i>x</i>} , and) Tj ETQq1 1 0.78431 Solar Thermochemical CO ₂ Splitting. ACS Catalysis, 2022, 12, 7719-7736.	4 rgBT /Ove 5.5	rlock 10 Tf 5 16
42	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
43	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
44	Interfacial Modulation with Aluminum Oxide for Efficient Plasmonâ€Induced Water Oxidation. Advanced Functional Materials, 2021, 31, 2005688.	7.8	33
45	Multiple methoxy-substituted hole transporter for inverted perovskite solar cells. Journal of Energy Chemistry, 2021, 56, 127-131.	7.1	4
46	Probing of coupling effect induced plasmonic charge accumulation for water oxidation. National Science Review, 2021, 8, nwaa151.	4.6	30
47	Intrinsic photocatalytic water oxidation activity of Mn-doped ferroelectric BiFeO3. Chinese Journal of Catalysis, 2021, 42, 945-952.	6.9	21
48	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
49	Unveiling the Hydration Structure of Ferrihydrite for Hole Storage in Photoelectrochemical Water Oxidation. Angewandte Chemie - International Edition, 2021, 60, 6691-6698.	7.2	33
50	Unveiling the Hydration Structure of Ferrihydrite for Hole Storage in Photoelectrochemical Water Oxidation. Angewandte Chemie, 2021, 133, 6765-6772.	1.6	7
51	Noble-Metal Based Random Alloy and Intermetallic Nanocrystals: Syntheses and Applications. Chemical Reviews, 2021, 121, 736-795.	23.0	269
52	Divergent Asymmetric Reactions of ortho â€Quinone Methides with αâ€Thiocyanato Indanones for the Synthesis of Spiro―and Fusedâ€Indanones. Chemistry - A European Journal, 2021, 27, 735-739.	1.7	11
53	Interface engineering with an AlO _x dielectric layer enabling an ultrastable Ta ₃ N ₅ photoanode for photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2021, 9, 11285-11290.	5.2	17
54	Reducing non-radiative recombination energy loss <i>via</i> a fluorescence intensifier for efficient and stable ternary organic solar cells. Materials Horizons, 2021, 8, 2335-2342.	6.4	11

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55	Halide perovskites for light emission and artificial photosynthesis: Opportunities, challenges, and perspectives. EcoMat, 2021, 3, e12074.	6.8	29
56	Water-initiated hydrocarboxylation of terminal alkynes with CO ₂ and hydrosilane. Chemical Communications, 2021, 57, 1230-1233.	2.2	7
57	Achieving selective photocatalytic CO ₂ reduction to CO on bismuth tantalum oxyhalogen nanoplates. Journal of Materials Chemistry A, 2021, 9, 19631-19636.	5.2	41
58	Controllable stereoinversion in DNA-catalyzed olefin cyclopropanation <i>via</i> cofactor modification. Chemical Science, 2021, 12, 7918-7923.	3.7	6
59	Mechanistic Understanding of Efficient Photocatalytic H ₂ Evolution on Twoâ€Dimensional Layered Lead Iodide Hybrid Perovskites. Angewandte Chemie - International Edition, 2021, 60, 7376-7381.	7.2	48
60	Mechanistic Understanding of Efficient Photocatalytic H ₂ Evolution on Twoâ€Dimensional Layered Lead Iodide Hybrid Perovskites. Angewandte Chemie, 2021, 133, 7452-7457.	1.6	9
61	Efficiency Accreditation and Testing Protocols for Particulate Photocatalysts toward Solar Fuel Production. Joule, 2021, 5, 344-359.	11.7	165
62	Crystallinity and Orientation Manipulation of Anthracene Diimide Polymers for Allâ€Polymer Solar Cells. Advanced Functional Materials, 2021, 31, 2011049.	7.8	12
63	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
64	Shallow Oxygen Substitution Defect to Deeper Defect Transformation Mechanism in Ta ₃ N ₅ under Light Irradiation. Journal of Physical Chemistry Letters, 2021, 12, 3698-3704.	2.1	3
65	Surface Passivation Effect of Ferrihydrite with Hole-Storage Ability in Water Oxidation on BiVO ₄ Photoanode. Journal of Physical Chemistry C, 2021, 125, 8369-8375.	1.5	15
66	Unassisted Highly Selective Gas-Phase CO ₂ Reduction with a Plasmonic Au/p-GaN Photocatalyst Using H ₂ O as an Electron Donor. ACS Energy Letters, 2021, 6, 1849-1856.	8.8	49
67	Highly Selective Detection of K ⁺ Based on a Dimerized G-Quadruplex DNAzyme. Analytical Chemistry, 2021, 93, 6907-6912.	3.2	11
68	CO2 hydrogenation to methanol on ZnO-ZrO2 solid solution catalysts with ordered mesoporous structure. Journal of Catalysis, 2021, 396, 242-250.	3.1	47
69	Introducing special issue on photocatalysis and photoelectrochemistry. Journal of Chemical Physics, 2021, 154, 190401.	1.2	0
70	Synthesis of Bifunctional Porphyrin Polymers for Catalytic Conversion of Dilute CO ₂ to Cyclic Carbonates. ACS Applied Materials & Interfaces, 2021, 13, 29522-29531.	4.0	53
71	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
72	Mechanistic Studies on Photocatalytic Overall Water Splitting over Ga ₂ O ₃ -Based Photocatalysts by <i>Operando</i> MS-FTIR Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 6029-6033.	2.1	19

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73	Palladium-catalyzed enantioselective linear allylic alkylation of vinyl benzoxazinanones: An inner-sphere mechanism. Chinese Journal of Catalysis, 2021, 42, 1227-1237.	6.9	8
74	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
75	Highly Efficient Degradation of Persistent Pollutants with 3D Nanocone TiO ₂ -Based Photoelectrocatalysis. Journal of the American Chemical Society, 2021, 143, 13664-13674.	6.6	158
76	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
77	Biomimetic approach to the catalytic enantioselective synthesis of tetracyclic isochroman. Nature Communications, 2021, 12, 4958.	5.8	14
78	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
79	Palladium-Catalyzed Asymmetric Allylic C–H Functionalization for the Synthesis of Hydroquinolines through Intermolecular [4+2] Cycloadditions. ACS Catalysis, 2021, 11, 10913-10922.	5.5	15
80	Direct synthesis of p-methyl benzaldehyde from acetaldehyde via an organic amine-catalyzed dehydrogenation mechanism. IScience, 2021, 24, 103028.	1.9	1
81	Cell-free chemoenzymatic starch synthesis from carbon dioxide. Science, 2021, 373, 1523-1527.	6.0	274
82	Boosting photocatalytic water oxidation by surface plasmon resonance of AgxAu1â^'x alloy nanoparticles. Nano Energy, 2021, 87, 106189.	8.2	52
83	Room Temperature Allenation of Terminal Alkynes with Aldehydes. Angewandte Chemie - International Edition, 2021, 60, 25708-25713.	7.2	10
84	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
85	Dopant-free polymer/2D/3D perovskite solar cells with high stability. Nano Energy, 2021, 90, 106521.	8.2	19
86	Isomeric anthracene diimide polymers. Chemical Science, 2021, 12, 2848-2852.	3.7	17
87	Crystal facet modulation of Bi ₂ WO ₆ microplates for spatial charge separation and inhibiting reverse reaction. Chemical Communications, 2021, 57, 11637-11640.	2.2	17
88	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
89	Liberating photoinhibition through nongenetic drainage of electrons from photosynthesis. Natural Sciences, 2021, 1, e20210038.	1.0	8
90	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

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91	Visualizing the Spatial Heterogeneity of Electron Transfer on a Metallic Nanoplate Prism. Nano Letters, 2021, 21, 8901-8909.	4.5	13
92	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
93	Hydroxylated non-fullerene acceptor for highly efficient inverted perovskite solar cells. Energy and Environmental Science, 2021, 14, 6536-6545.	15.6	33
94	Construction of a gradient-type 2D/3D perovskite structure for subsurface passivation and energy-level alignment of an MAPbI ₃ film. Journal of Materials Chemistry A, 2021, 9, 26086-26094.	5.2	12
95	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
96	Lead-free B-site bimetallic perovskite photocatalyst for efficient benzylic C–H bond activation. Cell Reports Physical Science, 2021, 2, 100656.	2.8	32
97	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
98	A Spirobixantheneâ€Based Dendrimeric Holeâ€Transporting Material for Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900367.	3.1	10
99	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
100	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
101	Carbon nitride embedded with transition metals for selective electrocatalytic CO2 reduction. Applied Catalysis B: Environmental, 2020, 268, 118391.	10.8	64
102	Surfaceâ€Polarityâ€Induced Spatial Charge Separation Boosts Photocatalytic Overall Water Splitting on GaN Nanorod Arrays. Angewandte Chemie, 2020, 132, 945-952.	1.6	22
103	Carboxylation of Toluene with CO2â€derived Dimethyl Carbonate over Amorphous Tiâ~'Zr Mixedâ€metal Oxide Catalysts. ChemCatChem, 2020, 12, 95-99.	1.8	2
104	Internalâ€Fieldâ€Enhanced Charge Separation in a Singleâ€Domain Ferroelectric PbTiO ₃ Photocatalyst. Advanced Materials, 2020, 32, e1906513.	11.1	121
105	Advanced space- and time-resolved techniques for photocatalyst studies. Chemical Communications, 2020, 56, 1007-1021.	2.2	50
106	Efficient hydrogen peroxide synthesis by metal-free polyterthiophene <i>via</i> photoelectrocatalytic dioxygen reduction. Energy and Environmental Science, 2020, 13, 238-245.	15.6	146
107	Cobaltâ€Catalyzed Regio―and Stereoselective Hydroboration of Allenes. Angewandte Chemie - International Edition, 2020, 59, 6278-6283	7.2	34
108	High-Performance Solar Redox Flow Battery toward Efficient Overall Splitting of Hydrogen Sulfide. ACS Energy Letters, 2020, 5, 597-603.	8.8	25

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109	Highly Efficient Cyclic Dinucleotide Based Artificial Metalloribozymes for Enantioselective Friedel–Crafts Reactions in Water. Angewandte Chemie, 2020, 132, 3472-3477.	1.6	1
110	Highly Efficient Cyclic Dinucleotide Based Artificial Metalloribozymes for Enantioselective Friedel–Crafts Reactions in Water. Angewandte Chemie - International Edition, 2020, 59, 3444-3449.	7.2	8
111	Unraveling the Kinetics of Photocatalytic Water Oxidation on WO ₃ . Journal of Physical Chemistry Letters, 2020, 11, 412-418.	2.1	21
112	A Novel Double Perovskite Oxide Semiconductor Sr ₂ CoWO ₆ as Bifunctional Photocatalyst for Photocatalytic Oxygen and Hydrogen Evolution Reactions from Water under Visible Light Irradiation. Solar Rrl, 2020, 4, 1900456.	3.1	36
113	Carbon Encapsulation of Organic–Inorganic Hybrid Perovskite toward Efficient and Stable Photoâ€Electrochemical Carbon Dioxide Reduction. Advanced Energy Materials, 2020, 10, 2002105.	10.2	44
114	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
115	Reducing the surface defects of Ta ₃ N ₅ photoanode towards enhanced photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2020, 8, 23274-23283.	5.2	16
116	Regulation of Ferroelectric Polarization to Achieve Efficient Charge Separation and Transfer in Particulate RuO ₂ /BiFeO ₃ for High Photocatalytic Water Oxidation Activity. Small, 2020, 16, e2003361.	5.2	51
117	The Polarization Effect in Surfaceâ€Plasmonâ€Induced Photocatalysis on Au/TiO ₂ Nanoparticles. Angewandte Chemie - International Edition, 2020, 59, 18218-18223.	7.2	78
118	The Polarization Effect in Surfaceâ€Plasmonâ€Induced Photocatalysis on Au/TiO ₂ Nanoparticles. Angewandte Chemie, 2020, 132, 18375-18380.	1.6	22
119	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
120	Oxygen vacancy engineering with flame heating approach towards enhanced photoelectrochemical water oxidation on WO3 photoanode. Nano Energy, 2020, 77, 105190.	8.2	65
121	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
122	Sr ₂ CoTaO ₆ 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
123	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
124	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
125	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
126	The noncovalent dimerization of a G-quadruplex/hemin DNAzyme improves its biocatalytic properties. Chemical Science, 2020, 11, 8846-8853.	3.7	24

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127	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
128	Allylsilane Reagentâ€Controlled Divergent Asymmetric Catalytic Reactions of 2â€Naphthoquinoneâ€1â€methide. Chemistry - A European Journal, 2020, 26, 14173-14180.	1.7	9
129	Hydrogenation of Carbon Dioxide to Methanol over Nonâ^'Cuâ€based Heterogeneous Catalysts. ChemSusChem, 2020, 13, 6160-6181.	3.6	90
130	Photoinduced Surface Activation of Semiconductor Photocatalysts under Reaction Conditions: A Commonly Overlooked Phenomenon in Photocatalysis. ACS Catalysis, 2020, 10, 5941-5948.	5.5	39
131	Anchoring of black phosphorus quantum dots onto WO ₃ nanowires to boost photocatalytic CO ₂ conversion into solar fuels. Chemical Communications, 2020, 56, 7777-7780.	2.2	57
132	Dion-Jacobson 2D-3D perovskite solar cells with improved efficiency and stability. Nano Energy, 2020, 75, 104892.	8.2	99
133	Sr ₂ NiWO ₆ Double Perovskite Oxide as a Novel Visible-Light-Responsive Water Oxidation Photocatalyst. ACS Applied Materials & Interfaces, 2020, 12, 25938-25948.	4.0	44
134	Enantioselective Olefin Cyclopropanation with G-Quadruplex DNA-Based Biocatalysts. ACS Catalysis, 2020, 10, 6561-6567.	5.5	15
135	Effects of the interfacial defects in Au/ TiO2 on plasmon-induced water oxidation. Journal of Chemical Physics, 2020, 152, 194702.	1.2	14
136	Direct and indirect Z-scheme heterostructure-coupled photosystem enabling cooperation of CO2 reduction and H2O oxidation. Nature Communications, 2020, 11, 3043.	5.8	200
137	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
138	A Hydrogen Farm Strategy for Scalable Solar Hydrogen Production with Particulate Photocatalysts. Angewandte Chemie - International Edition, 2020, 59, 9653-9658.	7.2	167
139	A Hydrogen Farm Strategy for Scalable Solar Hydrogen Production with Particulate Photocatalysts. Angewandte Chemie, 2020, 132, 9740-9745.	1.6	27
140	Exploration of the intrinsic factors limiting the photocurrent density in ferroelectric BiFeO ₃ thin film. Journal of Materials Chemistry A, 2020, 8, 6863-6873.	5.2	30
141	Unravelling the water oxidation mechanism on NaTaO ₃ -based photocatalysts. Journal of Materials Chemistry A, 2020, 8, 6812-6821.	5.2	23
142	Water Oxidation on TiO ₂ : A Comparative DFT Study of 1e [–] , 2e [–] , and 4e [–] Processes on Rutile, Anatase, and Brookite. Journal of Physical Chemistry C, 2020, 124, 8094-8100.	1.5	30
143	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
144	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

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145	Understanding the Effect of Crystalline Structural Transformation for Leadâ€Free Inorganic Halide Perovskites. Advanced Materials, 2020, 32, e2002137.	11.1	101
146	Surface defect passivation of Ta3N5 photoanode via pyridine grafting for enhanced photoelectrochemical performance. Journal of Chemical Physics, 2020, 153, 024705.	1.2	5
147	Boosting Performance of Nonâ€Fullerene Organic Solar Cells by 2D g ₃ N ₄ Doped PEDOT:PSS. Advanced Functional Materials, 2020, 30, 1910205.	7.8	77
148	2D Conjugated Polyelectrolytes Possessing Identical Backbone with Active‣ayer Polymer as Cathode Interlayer for Organic Solar Cells. Macromolecular Rapid Communications, 2020, 41, 1900624.	2.0	3
149	Cobalt atalyzed Regio―and Stereoselective Hydroboration of Allenes. Angewandte Chemie, 2020, 132, 6337-6342.	1.6	9
150	Intrinsic Facetâ€Dependent Reactivity of Wellâ€Defined BiOBr Nanosheets on Photocatalytic Water Splitting. Angewandte Chemie - International Edition, 2020, 59, 6590-6595.	7.2	231
151	Hâ€Bondsâ€Assisted Molecular Order Manipulation of Nonfullerene Acceptors for Efficient Nonannealed Organic Solar Cells. Advanced Energy Materials, 2020, 10, 1903650.	10.2	31
152	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
153	Intrinsic Facetâ€Dependent Reactivity of Wellâ€Defined BiOBr Nanosheets on Photocatalytic Water Splitting. Angewandte Chemie, 2020, 132, 6652-6657.	1.6	46
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