Min Liu

List of Publications by Year
in descending order

253 papers	24,569 citations	9234 74 h-index	8138 148 g-index
256 all docs	256 docs citations	256 times ranked	23017 citing authors

#	Article	IF	Citations
1	Homogeneously dispersed multimetal oxygen-evolving catalysts. Science, 2016, 352, 333-337.	6.0	1,948
2	Enhanced electrocatalytic CO2 reduction via field-induced reagent concentration. Nature, 2016, 537, 382-386.	13.7	1,429
3	Defect-rich and ultrathin N doped carbon nanosheets as advanced trifunctional metal-free electrocatalysts for the ORR, OER and HER. Energy and Environmental Science, 2019, 12, 322-333.	15.6	1,078
4	Accelerated discovery of CO2 electrocatalysts using active machine learning. Nature, 2020, 581, 178-183.	13.7	807
5	Dopant-induced electron localization drives CO2 reduction to C2 hydrocarbons. Nature Chemistry, 2018, 10, 974-980.	6.6	781
6	Product selectivity of photocatalytic CO2 reduction reactions. Materials Today, 2020, 32, 222-243.	8.3	719
7	Surface Modification of CoO_x Loaded BiVO₄ Photoanodes with Ultrathin p-Type NiO Layers for Improved Solar Water Oxidation. Journal of the American Chemical Society, 2015, 137, 5053-5060.	6.6	542
8	Theory-driven design of high-valence metal sites for water oxidation confirmed using in situ soft X-ray absorption. Nature Chemistry, 2018, 10, 149-154.	6.6	476
9	Multi-site electrocatalysts for hydrogen evolution in neutral media by destabilization of water molecules. Nature Energy, 2019, 4, 107-114.	19.8	470
10	Missing-linker metal-organic frameworks for oxygen evolution reaction. Nature Communications, 2019, 10, 5048.	5.8	422
11	Sulfur-Modulated Tin Sites Enable Highly Selective Electrochemical Reduction of CO2 to Formate. Joule, 2017, 1, 794-805.	11.7	390
12	Hybrid Cu_xO/TiO₂ Nanocomposites As Risk-Reduction Materials in Indoor Environments. ACS Nano, 2012, 6, 1609-1618.	7.3	387
13	Modulating electronic structure of metal-organic frameworks by introducing atomically dispersed Ru for efficient hydrogen evolution. Nature Communications, 2021, 12, 1369.	5.8	360
14	Iron phthalocyanine with coordination induced electronic localization to boost oxygen reduction reaction. Nature Communications, 2020, 11, 4173.	5.8	358
15	Anatase TiO2 single crystals with exposed {001} and {110} facets: facile synthesis and enhanced photocatalysis. Chemical Communications, 2010, 46, 1664.	2.2	329
16	YAG:Ce³⁺ Transparent Ceramic Phosphors Brighten the Nextâ€Generation Laserâ€Driven Lighting. Advanced Materials, 2020, 32, e1907888.	11.1	323
17	Continuous-wave lasing in colloidal quantum dot solids enabled by facet-selective epitaxy. Nature, 2017, 544, 75-79.	13.7	319
18	10.6% Certified Colloidal Quantum Dot Solar Cells via Solvent-Polarity-Engineered Halide Passivation. Nano Letters, 2016, 16, 4630-4634.	4.5	312

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19	Bright colloidal quantum dot light-emitting diodes enabled by efficient chlorination. Nature Photonics, 2018, 12, 159-164.	15.6	303
20	Interfacial Electronic Structure Modulation of NiTe Nanoarrays with NiS Nanodots Facilitates Electrocatalytic Oxygen Evolution. Advanced Materials, 2019, 31, e1900430.	11.1	298
21	Energy-Level Matching of Fe(III) Ions Grafted at Surface and Doped in Bulk for Efficient Visible-Light Photocatalysts. Journal of the American Chemical Society, 2013, 135, 10064-10072.	6.6	263
22	New strategy for designing orangish-red-emitting phosphor via oxygen-vacancy-induced electronic localization. Light: Science and Applications, 2019, 8, 15.	7.7	263
23	Cu(II) Oxide Amorphous Nanoclusters Grafted Ti³⁺ Self-Doped TiO₂: An Efficient Visible Light Photocatalyst. Chemistry of Materials, 2011, 23, 5282-5286.	3.2	262
24	2D matrix engineering for homogeneous quantum dot coupling in photovoltaic solids. Nature Nanotechnology, 2018, 13, 456-462.	15.6	252
25	Graphitic Carbon Nitride with Dopant Induced Charge Localization for Enhanced Photoreduction of CO₂ to CH₄. Advanced Science, 2019, 6, 1900796.	5.6	251
26	Dopants fixation of Ruthenium for boosting acidic oxygen evolution stability and activity. Nature Communications, 2020, 11, 5368.	5.8	217
27	Pure Cubicâ€Phase Hybrid Iodobismuthates AgBi₂I₇ for Thinâ€Film Photovoltaics. Angewandte Chemie - International Edition, 2016, 55, 9586-9590.	7.2	201
28	Facile synthesis of morphology and size-controlled zirconium metalâ€“organic framework UiO-66: the role of hydrofluoric acid in crystallization. CrystEngComm, 2015, 17, 6434-6440.	1.3	200
29	Torsion strained iridium oxide for efficient acidic water oxidation in proton exchange membrane electrolyzers. Nature Nanotechnology, 2021, 16, 1371-1377.	15.6	197
30	Insights into the activity of single-atom Fe-N-C catalysts for oxygen reduction reaction. Nature Communications, 2022, 13, 2075.	5.8	197
31	Flower-like TiO2 nanostructures with exposed {001} facets: Facile synthesis and enhanced photocatalysis. Nanoscale, 2010, 2, 1115.	2.8	196
32	Solvothermal synthesis of NH₂-MIL-125(Ti) from circular plate to octahedron. CrystEngComm, 2014, 16, 9645-9650.	1.3	187
33	Multivariate Temporal Convolutional Network: A Deep Neural Networks Approach for Multivariate Time Series Forecasting. Electronics (Switzerland), 2019, 8, 876.	1.8	168
34	High-Density Nanosharp Microstructures Enable Efficient CO₂ Electroreduction. Nano Letters, 2016, 16, 7224-7228.	4.5	158
35	Unveiling Role of Sulfate Ion in Nickelâ€Iron (oxy)Hydroxide with Enhanced Oxygenâ€Evolving Performance. Advanced Functional Materials, 2021, 31, 2102772.	7.8	158
36	Synthesis of Hollow Nanocubes and Macroporous Monoliths of Silicalite-1 by Alkaline Treatment. Chemistry of Materials, 2013, 25, 4197-4205.	3.2	156

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37	Chemical Identification of Catalytically Active Sites on Oxygenâ€doped Carbon Nanosheet to Decipher the High Activity for Electroâ€synthesis Hydrogen Peroxide. Angewandte Chemie - International Edition, 2021, 60, 16607-16614.	7.2	150
38	Mixed-quantum-dot solar cells. Nature Communications, 2017, 8, 1325.	5.8	148
39	Accelerating CO₂ Electroreduction to Multicarbon Products via Synergistic Electricâ€"Thermal Field on Copper Nanoneedles. Journal of the American Chemical Society, 2022, 144, 3039-3049.	6.6	147
40	Hollow ZSMâ€5 with Siliconâ€Rich Surface, Double Shells, and Functionalized Interior with Metallic Nanoparticles and Carbon Nanotubes. Advanced Functional Materials, 2015, 25, 7479-7487.	7.8	145
41	Constructing Conductive Interfaces between Nickel Oxide Nanocrystals and Polymer Carbon Nitride for Efficient Electrocatalytic Oxygen Evolution Reaction. Advanced Functional Materials, 2019, 29, 1904020.	7.8	140
42	Visible-Light-Sensitive Photocatalysts: Nanocluster-Grafted Titanium Dioxide for Indoor Environmental Remediation. Journal of Physical Chemistry Letters, 2016, 7, 75-84.	2.1	138
43	Nanomorphology-Enhanced Gas-Evolution Intensifies CO₂ Reduction Electrochemistry. ACS Sustainable Chemistry and Engineering, 2017, 5, 4031-4040.	3.2	135
44	Synthesis of Fe/M (M = Mn, Co, Ni) bimetallic metal organic frameworks and their catalytic activity for phenol degradation under mild conditions. Inorganic Chemistry Frontiers, 2017, 4, 144-153.	3.0	131
45	Ultrasmall CoP Nanoparticles as Efficient Cocatalysts for Photocatalytic Formic Acid Dehydrogenation. Joule, 2018, 2, 549-557.	11.7	126
46	Unveiling the Protonâ€Feeding Effect in Sulfurâ€Doped Feâ˜'Nâ˜'C Singleâ€Atom Catalyst for Enhanced CO₂ Electroreduction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	126
47	Boosting oxygen reduction activity of Fe-N-C by partial copper substitution to iron in Al-air batteries. Applied Catalysis B: Environmental, 2019, 242, 209-217.	10.8	121
48	Enhanced Photoactivity with Nanocluster-Grafted Titanium Dioxide Photocatalysts. ACS Nano, 2014, 8, 7229-7238.	7.3	120
49	Enhanced photocatalytic activity of Bi2O3 under visible light irradiation by Cu(II) clusters modification. Applied Catalysis B: Environmental, 2013, 142-143, 598-603.	10.8	118
50	Engineering the Local Microenvironment over Bi Nanosheets for Highly Selective Electrocatalytic Conversion of CO₂ to HCOOH in Strong Acid. ACS Catalysis, 2022, 12, 2357-2364.	5.5	117
51	Lowâ€Valence Zn^{Î´+} (0<Î´<2) Singleâ€Atom Material as Highly Efficient Electrocatalyst for CO₂ Reduction. Angewandte Chemie - International Edition, 2021, 60, 22826-22832.	7.2	115
52	Tuning Charge Distribution of FeN₄ via External N for Enhanced Oxygen Reduction Reaction. ACS Catalysis, 2021, 11, 6304-6315.	5.5	114
53	Crosslinked Remoteâ€Doped Holeâ€Extracting Contacts Enhance Stability under Accelerated Lifetime Testing in Perovskite Solar Cells. Advanced Materials, 2016, 28, 2807-2815.	11.1	108
54	Single-atom transition metals supported on black phosphorene for electrochemical nitrogen reduction. Nanoscale, 2020, 12, 4903-4908.	2.8	107

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55	Quantum-Dot-Derived Catalysts for CO2 Reduction Reaction. Joule, 2019, 3, 1703-1718.	11.7	106
56	Atomically Dispersed sâ€Block Magnesium Sites for Electroreduction of CO₂ to CO. Angewandte Chemie - International Edition, 2021, 60, 25241-25245.	7.2	104
57	Optimizing Hydrogen Binding on Ru Sites with RuCo Alloy Nanosheets for Efficient Alkaline Hydrogen Evolution. Angewandte Chemie - International Edition, 2022, 61, e202113664.	7.2	102
58	In situ synthesis of titanium doped hybrid metalâ€“organic framework UiO-66 with enhanced adsorption capacity for organic dyes. Inorganic Chemistry Frontiers, 2017, 4, 1870-1880.	3.0	96
59	Selective CO₂ Hydrogenation to Hydrocarbons on Cu-Promoted Fe-Based Catalysts: Dependence on Cuâ€“Fe Interaction. ACS Sustainable Chemistry and Engineering, 2018, 6, 10182-10190.	3.2	95
60	Vertical Cu Nanoneedle Arrays Enhance the Local Electric Field Promoting C₂ Hydrocarbons in the CO₂ Electroreduction. Nano Letters, 2022, 22, 1963-1970.	4.5	95
61	Theoryâ€Guided Regulation of FeN₄Spin State by Neighboring Cu Atoms for Enhanced Oxygen Reduction Electrocatalysis in Flexible Metalâ€“Air Batteries. Angewandte Chemie - International Edition, 2022, 61, .	7.2	93
62	Biofunctionalized conductive polymers enable efficient CO ₂ electroreduction. Science Advances, 2017, 3, e1700686.	4.7	89
63	Hollow Alveolus-Like Nanovesicle Assembly with Metal-Encapsulated Hollow Zeolite Nanocrystals. ACS Nano, 2016, 10, 7401-7408.	7.3	88
64	Vertical 0Dâ€Perovskite/2Dâ€MoS₂ van der Waals Heterojunction Phototransistor for Emulating Photoelectricâ€Synergistically Classical Pavlovian Conditioning and Neural Coding Dynamics. Small, 2020, 16, e2005217.	5.2	87
65	A facile one-step hydrothermal synthesis of rhombohedral CuFeO2 crystals with antivirus property. Chemical Communications, 2012, 48, 7365.	2.2	86
66	Hybrids of PtRu Nanoclusters and Black Phosphorus Nanosheets for Highly Efficient Alkaline Hydrogen Evolution Reaction. ACS Catalysis, 2019, 9, 10870-10875.	5.5	86
67	Paired Ruâ€'Oâ€'Mo ensemble for efficient and stable alkaline hydrogen evolution reaction. Nano Energy, 2021, 82, 105767.	8.2	86
68	Hierarchical Nanorods of MoS₂/MoP Heterojunction for Efficient Electrocatalytic Hydrogen Evolution Reaction. Small, 2020, 16, e2002482.	5.2	85
69	Interconnected Hierarchical ZSM-5 with Tunable Acidity Prepared by a Dealuminationâ€“Realumination Process: A Superior MTP Catalyst. ACS Applied Materials & Interfaces, 2017, 9, 26096-26106.	4.0	84
70	Field-emission from quantum-dot-in-perovskite solids. Nature Communications, 2017, 8, 14757.	5.8	83
71	Is Photooxidation Activity of {001} Facets Truly Lower Than That of {101} Facets for Anatase TiO₂ Crystals?. Journal of Physical Chemistry C, 2012, 116, 26800-26804.	1.5	80
72	Ligand Engineering in Nickel Phthalocyanine to Boost the Electrocatalytic Reduction of CO₂. Advanced Functional Materials, 2022, 32, .	7.8	80

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73	Pseudohalideâ€Exchanged Quantum Dot Solids Achieve Record Quantum Efficiency in Infrared Photovoltaics. Advanced Materials, 2017, 29, 1700749.	11.1	79
74	Enhancing CO₂ reduction by suppressing hydrogen evolution with polytetrafluoroethylene protected copper nanoneedles. Journal of Materials Chemistry A, 2020, 8, 15936-15941.	5.2	78
75	CO₂ Hydrogenation to Hydrocarbons over Iron-based Catalyst: Effects of Physicochemical Properties of Al₂O₃ Supports. Industrial & Engineering Chemistry Research, 2014, 53, 17563-17569.	1.8	76
76	Li_{1.2}Ni_{0.13}Co_{0.13}Mn_{0.54}O₂ with Controllable Morphology and Size for High Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 25358-25368.	4.0	76
77	Activation of CO2 on graphitic carbon nitride supported single-atom cobalt sites. Chemical Engineering Journal, 2021, 415, 128982.	6.6	76
78	An effective method for enhancing oxygen evolution kinetics of LaMO3 (Mâ€=â€Ni, Co, Mn) perovskite catalysts and its application to a rechargeable zincâ€“air battery. Applied Catalysis B: Environmental, 2020, 262, 118291.	10.8	75
79	Graphitic carbon nitride based single-atom photocatalysts. Frontiers of Physics, 2020, 15, 1.	2.4	72
80	Single iron atoms stabilized by microporous defects of biomass-derived carbon aerogels as high-performance cathode electrocatalysts for aluminumâ€“air batteries. Journal of Materials Chemistry A, 2019, 7, 20840-20846.	5.2	68
81	Co single-atoms on ultrathin N-doped porous carbon via a biomass complexation strategy for high performance metalâ€“air batteries. Journal of Materials Chemistry A, 2020, 8, 2131-2139.	5.2	68
82	Role of pentahedrally coordinated titanium in titanium silicalite-1 in propene epoxidation. RSC Advances, 2015, 5, 17897-17904.	1.7	67
83	Low-overpotential selective reduction of CO2 to ethanol on electrodeposited Cu Au nanowire arrays. Journal of Energy Chemistry, 2019, 37, 176-182.	7.1	66
84	Untying thioether bond structures enabled by â€œvoltage-scissorsâ€•for stable room temperature sodiumâ€“sulfur batteries. Nanoscale, 2019, 11, 5967-5973.	2.8	66
85	Multifunctionalization of cotton fabrics with polyvinylsilsesquioxane/ZnO composite coatings. Carbohydrate Polymers, 2018, 199, 516-525.	5.1	65
86	Surfactant-assisted controlled synthesis of a metal-organic framework on Fe2O3 nanorod for boosted photoelectrochemical water oxidation. Chemical Engineering Journal, 2020, 379, 122256.	6.6	64
87	Hierarchical TiO₂ Nanospheres with Dominant {001} Facets: Facile Synthesis, Growth Mechanism, and Photocatalytic Activity. Chemistry - A European Journal, 2012, 18, 7525-7532.	1.7	63
88	Hydrationâ€Effectâ€Promoting Niâ€“Fe Oxyhydroxide Catalysts for Neutral Water Oxidation. Advanced Materials, 2020, 32, e1906806.	11.1	62
89	Machine Learning in Screening High Performance Electrocatalysts for CO₂ Reduction. Small Methods, 2021, 5, e2100987.	4.6	60
90	UV-blocking, superhydrophobic and robust cotton fabrics fabricated using polyvinylsilsesquioxane and nano-TiO2. Cellulose, 2018, 25, 3635-3647.	2.4	59

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91	Metallic MoO₂â€Modified Graphitic Carbon Nitride Boosting Photocatalytic CO₂Reduction via Schottky Junction. Solar Rrl, 2020, 4, 1900416.	3.1	59
92	Defect-Induced Ce-Doped Bi₂WO₆ for Efficient Electrocatalytic N₂ Reduction. ACS Applied Materials & Interfaces, 2021, 13, 19864-19872.	4.0	59
93	Joint tuning of nanostructured Cu-oxide morphology and local electrolyte programs high-rate CO₂ reduction to C₂H₄. Green Chemistry, 2017, 19, 4023-4030.	4.6	58
94	Recent Advances in Strategies for Improving the Performance of CO₂ Reduction Reaction on Single Atom Catalysts. Small Science, 2021, 1, 2000028.	5.8	57
95	2021 Roadmap: electrocatalysts for green catalytic processes. JPhys Materials, 2021, 4, 022004.	1.8	57
96	ZnFe₂O₄ Leaves Grown on TiO₂ Trees Enhance Photoelectrochemical Water Splitting. Small, 2016, 12, 3181-3188.	5.2	56
97	Direct Transformation of Carbon Dioxide to Value-Added Hydrocarbons by Physical Mixtures of Fe₅C₂ and K-Modified Al₂O₃. Industrial & Engineering Chemistry Research, 2018, 57, 9120-9126.	1.8	56
98	Modulating Charge Transfer Efficiency of Hematite Photoanode with Hybrid Dualâ€Metalâ€“Organic Frameworks for Boosting Photoelectrochemical Water Oxidation. Advanced Science, 2020, 7, 2002563.	5.6	56
99	Tuning the intermediate reaction barriers by a CuPd catalyst to improve the selectivity of CO2 electroreduction to C2 products. Chinese Journal of Catalysis, 2021, 42, 1500-1508.	6.9	56
100	Visible-light sensitive Cu(<scp>ii</scp>)â€“TiO₂with sustained anti-viral activity for efficient indoor environmental remediation. Journal of Materials Chemistry A, 2015, 3, 17312-17319.	5.2	55
101	Effects of Monocarboxylic Acid Additives on Synthesizing Metalâ€“Organic Framework NH₂-MIL-125 with Controllable Size and Morphology. Crystal Growth and Design, 2017, 17, 6586-6595.	1.4	55
102	Superhydrophobic/superoleophilic cotton fabrics treated with hybrid coatings for oil/water separation. Advanced Composites and Hybrid Materials, 2019, 2, 254-265.	9.9	54
103	Synthesis of Titanium Silicalite-1 with High Catalytic Performance for 1-Butene Epoxidation by Eliminating the Extraframework Ti. ACS Omega, 2016, 1, 1034-1040.	1.6	53
104	Nickel polyphthalocyanine with electronic localization at the nickel site for enhanced CO2 reduction reaction. Applied Catalysis B: Environmental, 2022, 306, 121093.	10.8	53
105	p-Block Indium Single-Atom Catalyst with Low-Coordinated Inâ€“N Motif for Enhanced Electrochemical CO₂ Reduction. ACS Catalysis, 2022, 12, 7386-7395.	5.5	53
106	Enhanced Catalytic Performance of Titanium Silicaliteâ€1 in Tuning the Crystal Size in the Range 1200â€“200â€…nm in a Tetrapropylammonium Bromide System. ChemCatChem, 2015, 7, 2660-2668.	1.8	50
107	Facile synthesis of Fe-containing metalâ€“organic frameworks as highly efficient catalysts for degradation of phenol at neutral pH and ambient temperature. CrystEngComm, 2015, 17, 7160-7168.	1.3	50
108	Surfactant-assisted synthesis of hierarchical NH₂-MIL-125 for the removal of organic dyes. RSC Advances, 2017, 7, 581-587.	1.7	50

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109	Cu(<scp>ii</scp>) nanocluster-grafted, Nb-doped TiO₂ as an efficient visible-light-sensitive photocatalyst based on energy-level matching between surface and bulk states. Journal of Materials Chemistry A, 2014, 2, 13571-13579.	5.2	49
110	Chemoselective hydrogenation of nitrobenzenes activated with tuned Au/h-BN. Journal of Catalysis, 2019, 370, 55-60.	3.1	48
111	Hierarchical nanotubes constructed from CoSe2 nanorods with an oxygen-rich surface for an efficient oxygen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 15073-15078.	5.2	47
112	Dual-functional CuO/CN for highly efficient solar evaporation and water purification. Separation and Purification Technology, 2021, 254, 117611.	3.9	47
113	Nanoimprint-Transfer-Patterned Solids Enhance Light Absorption in Colloidal Quantum Dot Solar Cells. Nano Letters, 2017, 17, 2349-2353.	4.5	46
114	Bridging chemical- and bio-catalysis: high-value liquid transportation fuel production from renewable agricultural residues. Green Chemistry, 2017, 19, 660-669.	4.6	46
115	Highly dispersed Fe-Nx active sites on Graphitic-N dominated porous carbon for synergetic catalysis of oxygen reduction reaction. Carbon, 2021, 171, 1-9.	5.4	46
116	Recent advances in the utilization of copper sulfide compounds for electrochemical CO2 reduction. Nano Materials Science, 2020, 2, 235-247.	3.9	45
117	Effect of SiO2-coating of FeK/Al2O3 catalysts on their activity and selectivity for CO2 hydrogenation to hydrocarbons. RSC Advances, 2014, 4, 8930.	1.7	44
118	Effects of Cesium Ions and Cesium Oxide in Side-Chain Alkylation of Toluene with Methanol over Cesium-Modified Zeolite X. Industrial & Engineering Chemistry Research, 2016, 55, 1849-1858.	1.8	44
119	Plasma-treatment induced H2O dissociation for the enhancement of photocatalytic CO2 reduction to CH4 over graphitic carbon nitride. Applied Surface Science, 2020, 508, 145173.	3.1	44
120	Controlled synthesis of mixed-valent Fe-containing metal organic frameworks for the degradation of phenol under mild conditions. Dalton Transactions, 2016, 45, 7952-7959.	1.6	43
121	Hierarchical 2D yarn-ball like metalâ€“organic framework NiFe(dobpdc) as bifunctional electrocatalyst for efficient overall electrocatalytic water splitting. Journal of Materials Chemistry A, 2020, 8, 22974-22982.	5.2	43
122	Pure Cubicâ€Phase Hybrid Iodobismuthates AgBi₂I₇ for Thinâ€Film Photovoltaics. Angewandte Chemie, 2016, 128, 9738-9742.	1.6	42
123	Borate narrowed band gap of nickel-iron layer double hydroxide to mediate rapid reconstruction kinetics for water oxidation. Applied Catalysis B: Environmental, 2022, 317, 121713.	10.8	42
124	Insights into the critical dual-effect of acid treatment on ZnxCd1-xS for enhanced photocatalytic production of syngas under visible light. Applied Catalysis B: Environmental, 2021, 288, 119976.	10.8	41
125	In Situ Structural Reconstruction to Generate the Active Sites for CO₂ Electroreduction on Bismuth Ultrathin Nanosheets. Advanced Energy Materials, 2022, 12, .	10.2	40
126	Enhanced Solarâ€toâ€Hydrogen Generation with Broadband Epsilonâ€Nearâ€Zero Nanostructured Photocatalysts. Advanced Materials, 2017, 29, 1701165.	11.1	39

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127	Strong Electron Coupling from the Sub-Nanometer Pd Clusters Confined in Porous Ceria Nanorods for Highly Efficient Electrochemical Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 966-973.	2.5	39
128	Tracking dynamic evolution of catalytic active sites in photocatalytic CO2 reduction by in situ time-resolved spectroscopy. Rare Metals, 2020, 39, 607-609.	3.6	39
129	A thin-film silicon based photocathode with a hydrogen doped TiO₂ protection layer for solar hydrogen evolution. Journal of Materials Chemistry A, 2016, 4, 16841-16848.	5.2	38
130	Study of the enhanced visible-light-sensitive photocatalytic activity of Cr₂O₃-loaded titanate nanosheets for Cr(<scp>vi</scp>) degradation and H₂ generation. Catalysis Science and Technology, 2017, 7, 2283-2297.	2.1	38
131	Tuning the electron structure enables the NiZn alloy for CO2 electroreduction to formate. Journal of Energy Chemistry, 2021, 63, 625-632.	7.1	38
132	Anatase TiO2 single crystals with dominant {001} facets: Facile fabrication from Ti powders and enhanced photocatalytical activity. Applied Surface Science, 2013, 274, 117-123.	3.1	37
133	Formation and Evolution of the High-Surface-Energy Facets of Anatase TiO₂. Journal of Physical Chemistry C, 2015, 119, 6094-6100.	1.5	37
134	CoS₂ needle arrays induced a local pseudo-acidic environment for alkaline hydrogen evolution. Nanoscale, 2021, 13, 13604-13609.	2.8	37
135	Defective TiO2 with oxygen vacancy and nanocluster modification for efficient visible light environment remediation. Catalysis Today, 2016, 264, 236-242.	2.2	36
136	Halide Re-Shelled Quantum Dot Inks for Infrared Photovoltaics. ACS Applied Materials & Interfaces, 2017, 9, 37536-37541.	4.0	35
137	Overcoating the Surface of Fe-Based Catalyst with ZnO and Nitrogen-Doped Carbon toward High Selectivity of Light Olefins in CO₂ Hydrogenation. Industrial & Engineering Chemistry Research, 2019, 58, 4017-4023.	1.8	35
138	Solution evaporation processed high quality perovskite films. Science Bulletin, 2018, 63, 1591-1596.	4.3	34
139	Chemical Identification of Catalytically Active Sites on Oxygenâ€doped Carbon Nanosheet to Decipher the High Activity for Electroâ€synthesis Hydrogen Peroxide. Angewandte Chemie, 2021, 133, 16743-16750.	1.6	34
140	N,O-C Nanocage-mediated high-efficient hydrogen evolution reaction on IrNi@N,O-C electrocatalyst. Applied Catalysis B: Environmental, 2022, 304, 120996.	10.8	34
141	Electric-field promoted Câ€“C coupling over Cu nanoneedles for CO2 electroreduction to C2 products. Chinese Journal of Catalysis, 2022, 43, 519-525.	6.9	34
142	A facile strategy for enhancing FeCu bimetallic promotion for catalytic phenol oxidation. Catalysis Science and Technology, 2015, 5, 3159-3165.	2.1	33
143	Oxygen-Deficient Nanofiber WO_{3â€“x}/WO₃ Homojunction Photoanodes Synthesized via a Novel Metal Self-Reducing Method. ACS Applied Materials & Interfaces, 2019, 11, 39951-39960.	4.0	32
144	Designing nitrogen and phosphorus co-doped graphene quantum dots/g-C3N4 heterojunction composites to enhance visible and ultraviolet photocatalytic activity. Applied Surface Science, 2021, 548, 149211.	3.1	32

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145	One-step fabrication of flexible, durable and fluorine-free superhydrophobic cotton fabrics for efficient oil/water separation. Cellulose, 2019, 26, 6349-6363.	2.4	31
146	Bimetallic atomic site catalysts for CO2 reduction reactions: a review. Environmental Chemistry Letters, 2022, 20, 243-262.	8.3	31
147	Quantum Dots in Two-Dimensional Perovskite Matrices for Efficient Near-Infrared Light Emission. ACS Photonics, 2017, 4, 830-836.	3.2	30
148	Tuning Interfacial Active Sites over Porous Mo₂N-Supported Cobalt Sulfides for Efficient Hydrogen Evolution Reactions in Acid and Alkaline Electrolytes. ACS Applied Materials & Interfaces, 2021, 13, 41573-41583.	4.0	30
149	Fabrication and photocatalytical properties of flower-like TiO2 nanostructures. Transactions of Nonferrous Metals Society of China, 2010, 20, 2299-2302.	1.7	29
150	Compound Homojunction:Heterojunction Reduces Bulk and Interface Recombination in ZnO Photoanodes for Water Splitting. Small, 2017, 13, 1603527.	5.2	29
151	Nanowrinkled Carbon Aerogels Embedded with FeNx Sites as Effective Oxygen Electrodes for Rechargeable Zinc-Air Battery. Research, 2019, 2019, 6813585.	2.8	29
152	Tandem catalysis on adjacent active motifs of copper grain boundary for efficient CO2 electroreduction toward C2 products. Journal of Energy Chemistry, 2022, 70, 219-223.	7.1	29
153	Serpentine CoxNi3-xGe2O5(OH)4 nanosheets with tuned electronic energy bands for highly efficient oxygen evolution reaction in alkaline and neutral electrolytes. Applied Catalysis B: Environmental, 2020, 260, 118184.	10.8	28
154	The progress of nanomaterials for carbon dioxide capture via the adsorption process. Environmental Science: Nano, 2021, 8, 890-912.	2.2	28
155	Recent advances in different-dimension electrocatalysts for carbon dioxide reduction. Journal of Colloid and Interface Science, 2019, 550, 17-47.	5.0	26
156	Band-Gap Engineering of FeF₃Â·0.33H₂O Nanosphere via Ni Doping as a High-Performance Lithium-Ion Battery Cathode. ACS Sustainable Chemistry and Engineering, 2020, 8, 15651-15660.	3.2	26
157	Insights into the development of Cu-based photocathodes for carbon dioxide (CO₂) conversion. Green Chemistry, 2021, 23, 3207-3240.	4.6	26
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