

Min Liu

List of Publications by Year in descending order

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253
papers

24,569
citations

9264

74
h-index

8167

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. <i>Science</i> , 2016, 352, 333-337.	12.6	1,948
2	Enhanced electrocatalytic CO ₂ reduction via field-induced reagent concentration. <i>Nature</i> , 2016, 537, 382-386.	27.8	1,429
3	Defect-rich and ultrathin N doped carbon nanosheets as advanced trifunctional metal-free electrocatalysts for the ORR, OER and HER. <i>Energy and Environmental Science</i> , 2019, 12, 322-333.	30.8	1,078
4	Accelerated discovery of CO ₂ electrocatalysts using active machine learning. <i>Nature</i> , 2020, 581, 178-183.	27.8	807
5	Dopant-induced electron localization drives CO ₂ reduction to C ₂ hydrocarbons. <i>Nature Chemistry</i> , 2018, 10, 974-980.	13.6	781
6	Product selectivity of photocatalytic CO ₂ reduction reactions. <i>Materials Today</i> , 2020, 32, 222-243.	14.2	719
7	Surface Modification of CoO _x Loaded BiVO ₄ Photoanodes with Ultrathin p-Type NiO Layers for Improved Solar Water Oxidation. <i>Journal of the American Chemical Society</i> , 2015, 137, 5053-5060.	13.7	542
8	Theory-driven design of high-valence metal sites for water oxidation confirmed using in situ soft X-ray absorption. <i>Nature Chemistry</i> , 2018, 10, 149-154.	13.6	476
9	Multi-site electrocatalysts for hydrogen evolution in neutral media by destabilization of water molecules. <i>Nature Energy</i> , 2019, 4, 107-114.	39.5	470
10	Missing-linker metal-organic frameworks for oxygen evolution reaction. <i>Nature Communications</i> , 2019, 10, 5048.	12.8	422
11	Sulfur-Modulated Tin Sites Enable Highly Selective Electrochemical Reduction of CO ₂ to Formate. <i>Joule</i> , 2017, 1, 794-805.	24.0	390
12	Hybrid Cu _x O/TiO ₂ Nanocomposites As Risk-Reduction Materials in Indoor Environments. <i>ACS Nano</i> , 2012, 6, 1609-1618.	14.6	387
13	Modulating electronic structure of metal-organic frameworks by introducing atomically dispersed Ru for efficient hydrogen evolution. <i>Nature Communications</i> , 2021, 12, 1369.	12.8	360
14	Iron phthalocyanine with coordination induced electronic localization to boost oxygen reduction reaction. <i>Nature Communications</i> , 2020, 11, 4173.	12.8	358
15	Anatase TiO ₂ single crystals with exposed {001} and {110} facets: facile synthesis and enhanced photocatalysis. <i>Chemical Communications</i> , 2010, 46, 1664.	4.1	329
16	YAG:Ce ³⁺ Transparent Ceramic Phosphors Brighten the Next-Generation Laser-Driven Lighting. <i>Advanced Materials</i> , 2020, 32, e1907888.	21.0	323
17	Continuous-wave lasing in colloidal quantum dot solids enabled by facet-selective epitaxy. <i>Nature</i> , 2017, 544, 75-79.	27.8	319
18	10.6% Certified Colloidal Quantum Dot Solar Cells via Solvent-Polarity-Engineered Halide Passivation. <i>Nano Letters</i> , 2016, 16, 4630-4634.	9.1	312

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19	Bright colloidal quantum dot light-emitting diodes enabled by efficient chlorination. <i>Nature Photonics</i> , 2018, 12, 159-164.	31.4	303
20	Interfacial Electronic Structure Modulation of NiTe Nanoarrays with NiS Nanodots Facilitates Electrocatalytic Oxygen Evolution. <i>Advanced Materials</i> , 2019, 31, e1900430.	21.0	298
21	Energy-Level Matching of Fe(III) Ions Grafted at Surface and Doped in Bulk for Efficient Visible-Light Photocatalysts. <i>Journal of the American Chemical Society</i> , 2013, 135, 10064-10072.	13.7	263
22	New strategy for designing orangish-red-emitting phosphor via oxygen-vacancy-induced electronic localization. <i>Light: Science and Applications</i> , 2019, 8, 15.	16.6	263
23	Cu(II) Oxide Amorphous Nanoclusters Grafted Ti^{3+} Self-Doped TiO_2 : An Efficient Visible Light Photocatalyst. <i>Chemistry of Materials</i> , 2011, 23, 5282-5286.	6.7	262
24	2D matrix engineering for homogeneous quantum dot coupling in photovoltaic solids. <i>Nature Nanotechnology</i> , 2018, 13, 456-462.	31.5	252
25	Graphitic Carbon Nitride with Dopant Induced Charge Localization for Enhanced Photoreduction of CO_2 to CH_4 . <i>Advanced Science</i> , 2019, 6, 1900796.	11.2	251
26	Dopants fixation of Ruthenium for boosting acidic oxygen evolution stability and activity. <i>Nature Communications</i> , 2020, 11, 5368.	12.8	217
27	Pure Cubic Phase Hybrid Iodobismuthates $AgBi_2I_7$ for Thin-Film Photovoltaics. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9586-9590.	13.8	201
28	Facile synthesis of morphology and size-controlled zirconium metal-organic framework UiO-66: the role of hydrofluoric acid in crystallization. <i>CrystEngComm</i> , 2015, 17, 6434-6440.	2.6	200
29	Torsion strained iridium oxide for efficient acidic water oxidation in proton exchange membrane electrolyzers. <i>Nature Nanotechnology</i> , 2021, 16, 1371-1377.	31.5	197
30	Insights into the activity of single-atom Fe-N-C catalysts for oxygen reduction reaction. <i>Nature Communications</i> , 2022, 13, 2075.	12.8	197
31	Flower-like TiO_2 nanostructures with exposed {001} facets: Facile synthesis and enhanced photocatalysis. <i>Nanoscale</i> , 2010, 2, 1115.	5.6	196
32	Solvothermal synthesis of NH_2 -MIL-125(Ti) from circular plate to octahedron. <i>CrystEngComm</i> , 2014, 16, 9645-9650.	2.6	187
33	Multivariate Temporal Convolutional Network: A Deep Neural Networks Approach for Multivariate Time Series Forecasting. <i>Electronics (Switzerland)</i> , 2019, 8, 876.	3.1	168
34	High-Density Nanosharp Microstructures Enable Efficient CO_2 Electroreduction. <i>Nano Letters</i> , 2016, 16, 7224-7228.	9.1	158
35	Unveiling Role of Sulfate Ion in Nickel-Iron (oxy)Hydroxide with Enhanced Oxygen-Evolving Performance. <i>Advanced Functional Materials</i> , 2021, 31, 2102772.	14.9	158
36	Synthesis of Hollow Nanocubes and Macroporous Monoliths of Silicalite-1 by Alkaline Treatment. <i>Chemistry of Materials</i> , 2013, 25, 4197-4205.	6.7	156

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37	Chemical Identification of Catalytically Active Sites on Oxygen-doped Carbon Nanosheet to Decipher the High Activity for Electro-synthesis Hydrogen Peroxide. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16607-16614.	13.8	150
38	Mixed-quantum-dot solar cells. <i>Nature Communications</i> , 2017, 8, 1325.	12.8	148
39	Accelerating CO ₂ Electroreduction to Multicarbon Products via Synergistic Electric-Thermal Field on Copper Nanoneedles. <i>Journal of the American Chemical Society</i> , 2022, 144, 3039-3049.	13.7	147
40	Hollow ZSM-5 with Silicon-Rich Surface, Double Shells, and Functionalized Interior with Metallic Nanoparticles and Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2015, 25, 7479-7487.	14.9	145
41	Constructing Conductive Interfaces between Nickel Oxide Nanocrystals and Polymer Carbon Nitride for Efficient Electrocatalytic Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2019, 29, 1904020.	14.9	140
42	Visible-Light-Sensitive Photocatalysts: Nanocluster-Grafted Titanium Dioxide for Indoor Environmental Remediation. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 75-84.	4.6	138
43	Nanomorphology-Enhanced Gas-Evolution Intensifies CO ₂ Reduction Electrochemistry. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4031-4040.	6.7	135
44	Synthesis of Fe/M (M = Mn, Co, Ni) bimetallic metal organic frameworks and their catalytic activity for phenol degradation under mild conditions. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 144-153.	6.0	131
45	Ultrasmall CoP Nanoparticles as Efficient Cocatalysts for Photocatalytic Formic Acid Dehydrogenation. <i>Joule</i> , 2018, 2, 549-557.	24.0	126
46	Unveiling the Proton-Feeding Effect in Sulfur-doped Fe-N-C Single-Atom Catalyst for Enhanced CO ₂ Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	126
47	Boosting oxygen reduction activity of Fe-N-C by partial copper substitution to iron in Al-air batteries. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 209-217.	20.2	121
48	Enhanced Photoactivity with Nanocluster-Grafted Titanium Dioxide Photocatalysts. <i>ACS Nano</i> , 2014, 8, 7229-7238.	14.6	120
49	Enhanced photocatalytic activity of Bi ₂ O ₃ under visible light irradiation by Cu(II) clusters modification. <i>Applied Catalysis B: Environmental</i> , 2013, 142-143, 598-603.	20.2	118
50	Engineering the Local Microenvironment over Bi Nanosheets for Highly Selective Electrocatalytic Conversion of CO ₂ to HCOOH in Strong Acid. <i>ACS Catalysis</i> , 2022, 12, 2357-2364.	11.2	117
51	Low-Valence Zn ⁺ (0<sup>+<2) Single-Atom Material as Highly Efficient Electrocatalyst for CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22826-22832.	13.8	115
52	Tuning Charge Distribution of FeN ₄ via External N for Enhanced Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2021, 11, 6304-6315.	11.2	114
53	Crosslinked Remote-doped Hole-Extracting Contacts Enhance Stability under Accelerated Lifetime Testing in Perovskite Solar Cells. <i>Advanced Materials</i> , 2016, 28, 2807-2815.	21.0	108
54	Single-atom transition metals supported on black phosphorene for electrochemical nitrogen reduction. <i>Nanoscale</i> , 2020, 12, 4903-4908.	5.6	107

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55	Quantum-Dot-Derived Catalysts for CO ₂ Reduction Reaction. <i>Joule</i> , 2019, 3, 1703-1718.	24.0	106
56	Atomically Dispersed δ -Block Magnesium Sites for Electroreduction of CO ₂ to CO. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25241-25245.	13.8	104
57	Optimizing Hydrogen Binding on Ru Sites with RuCo Alloy Nanosheets for Efficient Alkaline Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202113664.	13.8	102
58	In situ synthesis of titanium doped hybrid metal-organic framework UiO-66 with enhanced adsorption capacity for organic dyes. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1870-1880.	6.0	96
59	Selective CO ₂ Hydrogenation to Hydrocarbons on Cu-Promoted Fe-Based Catalysts: Dependence on Cu-Fe Interaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10182-10190.	6.7	95
60	Vertical Cu Nanoneedle Arrays Enhance the Local Electric Field Promoting C ₂ Hydrocarbons in the CO ₂ Electroreduction. <i>Nano Letters</i> , 2022, 22, 1963-1970.	9.1	95
61	Theory-Guided Regulation of FeN ₄ Spin State by Neighboring Cu Atoms for Enhanced Oxygen Reduction Electrocatalysis in Flexible Metal-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	93
62	Biofunctionalized conductive polymers enable efficient CO ₂ electroreduction. <i>Science Advances</i> , 2017, 3, e1700686.	10.3	89
63	Hollow Alveolus-Like Nanovesicle Assembly with Metal-Encapsulated Hollow Zeolite Nanocrystals. <i>ACS Nano</i> , 2016, 10, 7401-7408.	14.6	88
64	Vertical OD-Perovskite/2D-MoS ₂ van der Waals Heterojunction Phototransistor for Emulating Photoelectric-Synergistically Classical Pavlovian Conditioning and Neural Coding Dynamics. <i>Small</i> , 2020, 16, e2005217.	10.0	87
65	A facile one-step hydrothermal synthesis of rhombohedral CuFeO ₂ crystals with antivirus property. <i>Chemical Communications</i> , 2012, 48, 7365.	4.1	86
66	Hybrids of PtRu Nanoclusters and Black Phosphorus Nanosheets for Highly Efficient Alkaline Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2019, 9, 10870-10875.	11.2	86
67	Paired Ru-O-Mo ensemble for efficient and stable alkaline hydrogen evolution reaction. <i>Nano Energy</i> , 2021, 82, 105767.	16.0	86
68	Hierarchical Nanorods of MoS ₂ /MoP Heterojunction for Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Small</i> , 2020, 16, e2002482.	10.0	85
69	Interconnected Hierarchical ZSM-5 with Tunable Acidity Prepared by a Dealumination-Realumination Process: A Superior MTP Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26096-26106.	8.0	84
70	Field-emission from quantum-dot-in-perovskite solids. <i>Nature Communications</i> , 2017, 8, 14757.	12.8	83
71	Is Photooxidation Activity of {001} Facets Truly Lower Than That of {101} Facets for Anatase TiO ₂ Crystals?. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26800-26804.	3.1	80
72	Ligand Engineering in Nickel Phthalocyanine to Boost the Electrocatalytic Reduction of CO ₂ . <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	80

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73	Pseudohalide-Exchanged Quantum Dot Solids Achieve Record Quantum Efficiency in Infrared Photovoltaics. <i>Advanced Materials</i> , 2017, 29, 1700749.	21.0	79
74	Enhancing CO ₂ reduction by suppressing hydrogen evolution with polytetrafluoroethylene protected copper nanoneedles. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15936-15941.	10.3	78
75	CO ₂ Hydrogenation to Hydrocarbons over Iron-based Catalyst: Effects of Physicochemical Properties of Al ₂ O ₃ Supports. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 17563-17569.	3.7	76
76	Li _{1.2} Ni _{0.13} Co _{0.13} Mn _{0.54} O ₂ with Controllable Morphology and Size for High Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25358-25368.	8.0	76
77	Activation of CO ₂ on graphitic carbon nitride supported single-atom cobalt sites. <i>Chemical Engineering Journal</i> , 2021, 415, 128982.	12.7	76
78	An effective method for enhancing oxygen evolution kinetics of LaMO ₃ (M = Ni, Co, Mn) perovskite catalysts and its application to a rechargeable zinc-air battery. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118291.	20.2	75
79	Graphitic carbon nitride based single-atom photocatalysts. <i>Frontiers of Physics</i> , 2020, 15, 1.	5.0	72
80	Single iron atoms stabilized by microporous defects of biomass-derived carbon aerogels as high-performance cathode electrocatalysts for aluminum-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20840-20846.	10.3	68
81	Co single-atoms on ultrathin N-doped porous carbon <i>via</i> a biomass complexation strategy for high performance metal-air batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2131-2139.	10.3	68
82	Role of pentahedrally coordinated titanium in titanium silicalite-1 in propene epoxidation. <i>RSC Advances</i> , 2015, 5, 17897-17904.	3.6	67
83	Low-overpotential selective reduction of CO ₂ to ethanol on electrodeposited Cu Au nanowire arrays. <i>Journal of Energy Chemistry</i> , 2019, 37, 176-182.	12.9	66
84	Untying thioether bond structures enabled by voltage-scissors for stable room temperature sodium-sulfur batteries. <i>Nanoscale</i> , 2019, 11, 5967-5973.	5.6	66
85	Multifunctionalization of cotton fabrics with polyvinylsilsesquioxane/ZnO composite coatings. <i>Carbohydrate Polymers</i> , 2018, 199, 516-525.	10.2	65
86	Surfactant-assisted controlled synthesis of a metal-organic framework on Fe ₂ O ₃ nanorod for boosted photoelectrochemical water oxidation. <i>Chemical Engineering Journal</i> , 2020, 379, 122256.	12.7	64
87	Hierarchical TiO ₂ Nanospheres with Dominant {001} Facets: Facile Synthesis, Growth Mechanism, and Photocatalytic Activity. <i>Chemistry - A European Journal</i> , 2012, 18, 7525-7532.	3.3	63
88	Hydration Effect Promoting Ni-Fe Oxyhydroxide Catalysts for Neutral Water Oxidation. <i>Advanced Materials</i> , 2020, 32, e1906806.	21.0	62
89	Machine Learning in Screening High Performance Electrocatalysts for CO ₂ Reduction. <i>Small Methods</i> , 2021, 5, e2100987.	8.6	60
90	UV-blocking, superhydrophobic and robust cotton fabrics fabricated using polyvinylsilsesquioxane and nano-TiO ₂ . <i>Cellulose</i> , 2018, 25, 3635-3647.	4.9	59

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91	Metallic MoO ₂ â€”Modified Graphitic Carbon Nitride Boosting Photocatalytic CO ₂ Reduction via Schottky Junction. Solar Rrl, 2020, 4, 1900416.	5.8	59
92	Defect-Induced Ce-Doped Bi ₂ WO ₆ for Efficient Electrocatalytic N ₂ Reduction. ACS Applied Materials & Interfaces, 2021, 13, 19864-19872.	8.0	59
93	Joint tuning of nanostructured Cu-oxide morphology and local electrolyte programs high-rate CO ₂ reduction to C ₂ H ₄ . Green Chemistry, 2017, 19, 4023-4030.	9.0	58
94	Recent Advances in Strategies for Improving the Performance of CO ₂ Reduction Reaction on Single Atom Catalysts. Small Science, 2021, 1, 2000028.	9.9	57
95	2021 Roadmap: electrocatalysts for green catalytic processes. JPhys Materials, 2021, 4, 022004.	4.2	57
96	ZnFe ₂ O ₄ Leaves Grown on TiO ₂ Trees Enhance Photoelectrochemical Water Splitting. Small, 2016, 12, 3181-3188.	10.0	56
97	Direct Transformation of Carbon Dioxide to Value-Added Hydrocarbons by Physical Mixtures of Fe ₅ C ₂ and K-Modified Al ₂ O ₃ . Industrial & Engineering Chemistry Research, 2018, 57, 9120-9126.	3.7	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.	11.2	56
99	Tuning the intermediate reaction barriers by a CuPd catalyst to improve the selectivity of CO ₂ electroreduction to C ₂ products. Chinese Journal of Catalysis, 2021, 42, 1500-1508.	14.0	56
100	Visible-light sensitive Cu(<i>scpi</i>)â€”TiO ₂ with sustained anti-viral activity for efficient indoor environmental remediation. Journal of Materials Chemistry A, 2015, 3, 17312-17319.	10.3	55
101	Effects of Monocarboxylic Acid Additives on Synthesizing Metalâ€”Organic Framework NH ₂ -MIL-125 with Controllable Size and Morphology. Crystal Growth and Design, 2017, 17, 6586-6595.	3.0	55
102	Superhydrophobic/superoleophilic cotton fabrics treated with hybrid coatings for oil/water separation. Advanced Composites and Hybrid Materials, 2019, 2, 254-265.	21.1	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.	3.5	53
104	Nickel polyphthalocyanine with electronic localization at the nickel site for enhanced CO ₂ reduction reaction. Applied Catalysis B: Environmental, 2022, 306, 121093.	20.2	53
105	p-Block Indium Single-Atom Catalyst with Low-Coordinated Inâ€”N Motif for Enhanced Electrochemical CO ₂ Reduction. ACS Catalysis, 2022, 12, 7386-7395.	11.2	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.	3.7	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.	2.6	50
108	Surfactant-assisted synthesis of hierarchical NH ₂ -MIL-125 for the removal of organic dyes. RSC Advances, 2017, 7, 581-587.	3.6	50

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109	Cu(<i>ii</i>) nanocluster-grafted, Nb-doped TiO ₂ as an efficient visible-light-sensitive photocatalyst based on energy-level matching between surface and bulk states. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13571-13579.	10.3	49
110	Chemoselective hydrogenation of nitrobenzenes activated with tuned Au/h-BN. <i>Journal of Catalysis</i> , 2019, 370, 55-60.	6.2	48
111	Hierarchical nanotubes constructed from CoSe ₂ nanorods with an oxygen-rich surface for an efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15073-15078.	10.3	47
112	Dual-functional CuO/CN for highly efficient solar evaporation and water purification. <i>Separation and Purification Technology</i> , 2021, 254, 117611.	7.9	47
113	Nanoimprint-Transfer-Patterned Solids Enhance Light Absorption in Colloidal Quantum Dot Solar Cells. <i>Nano Letters</i> , 2017, 17, 2349-2353.	9.1	46
114	Bridging chemical- and bio-catalysis: high-value liquid transportation fuel production from renewable agricultural residues. <i>Green Chemistry</i> , 2017, 19, 660-669.	9.0	46
115	Highly dispersed Fe-N _x active sites on Graphitic-N dominated porous carbon for synergetic catalysis of oxygen reduction reaction. <i>Carbon</i> , 2021, 171, 1-9.	10.3	46
116	Recent advances in the utilization of copper sulfide compounds for electrochemical CO ₂ reduction. <i>Nano Materials Science</i> , 2020, 2, 235-247.	8.8	45
117	Effect of SiO ₂ -coating of FeK/Al ₂ O ₃ catalysts on their activity and selectivity for CO ₂ hydrogenation to hydrocarbons. <i>RSC Advances</i> , 2014, 4, 8930.	3.6	44
118	Effects of Cesium Ions and Cesium Oxide in Side-Chain Alkylation of Toluene with Methanol over Cesium-Modified Zeolite X. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 1849-1858.	3.7	44
119	Plasma-treatment induced H ₂ O dissociation for the enhancement of photocatalytic CO ₂ reduction to CH ₄ over graphitic carbon nitride. <i>Applied Surface Science</i> , 2020, 508, 145173.	6.1	44
120	Controlled synthesis of mixed-valent Fe-containing metal organic frameworks for the degradation of phenol under mild conditions. <i>Dalton Transactions</i> , 2016, 45, 7952-7959.	3.3	43
121	Hierarchical 2D yarn-ball like metal-organic framework NiFe(dobpdc) as bifunctional electrocatalyst for efficient overall electrocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22974-22982.	10.3	43
122	Pure Cubic Phase Hybrid Iodobismuthates AgBi ₂ I ₇ for Thin-Film Photovoltaics. <i>Angewandte Chemie</i> , 2016, 128, 9738-9742.	2.0	42
123	Borate narrowed band gap of nickel-iron layer double hydroxide to mediate rapid reconstruction kinetics for water oxidation. <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121713.	20.2	42
124	Insights into the critical dual-effect of acid treatment on Zn _x Cd _{1-x} S for enhanced photocatalytic production of syngas under visible light. <i>Applied Catalysis B: Environmental</i> , 2021, 288, 119976.	20.2	41
125	In Situ Structural Reconstruction to Generate the Active Sites for CO ₂ Electroreduction on Bismuth Ultrathin Nanosheets. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	40
126	Enhanced Solar-Driven Hydrogen Generation with Broadband Epsilon-Near-Zero Nanostructured Photocatalysts. <i>Advanced Materials</i> , 2017, 29, 1701165.	21.0	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.	5.1	39
128	Tracking dynamic evolution of catalytic active sites in photocatalytic CO ₂ reduction by in situ time-resolved spectroscopy. Rare Metals, 2020, 39, 607-609.	7.1	39
129	A thin-film silicon based photocathode with a hydrogen doped TiO ₂ protection layer for solar hydrogen evolution. Journal of Materials Chemistry A, 2016, 4, 16841-16848.	10.3	38
130	Study of the enhanced visible-light-sensitive photocatalytic activity of Cr ₂ O ₃ -loaded titanate nanosheets for Cr(VI) degradation and H ₂ generation. Catalysis Science and Technology, 2017, 7, 2283-2297.	4.1	38
131	Tuning the electron structure enables the NiZn alloy for CO ₂ electroreduction to formate. Journal of Energy Chemistry, 2021, 63, 625-632.	12.9	38
132	Anatase TiO ₂ single crystals with dominant {001} facets: Facile fabrication from Ti powders and enhanced photocatalytic activity. Applied Surface Science, 2013, 274, 117-123.	6.1	37
133	Formation and Evolution of the High-Surface-Energy Facets of Anatase TiO ₂ . Journal of Physical Chemistry C, 2015, 119, 6094-6100.	3.1	37
134	CoS ₂ needle arrays induced a local pseudo-acidic environment for alkaline hydrogen evolution. Nanoscale, 2021, 13, 13604-13609.	5.6	37
135	Defective TiO ₂ with oxygen vacancy and nanocluster modification for efficient visible light environment remediation. Catalysis Today, 2016, 264, 236-242.	4.4	36
136	Halide Re-Shelled Quantum Dot Inks for Infrared Photovoltaics. ACS Applied Materials & Interfaces, 2017, 9, 37536-37541.	8.0	35
137	Overcoating the Surface of Fe-Based Catalyst with ZnO and Nitrogen-Doped Carbon toward High Selectivity of Light Olefins in CO ₂ Hydrogenation. Industrial & Engineering Chemistry Research, 2019, 58, 4017-4023.	3.7	35
138	Solution evaporation processed high quality perovskite films. Science Bulletin, 2018, 63, 1591-1596.	9.0	34
139	Chemical Identification of Catalytically Active Sites on Oxygen-doped Carbon Nanosheet to Decipher the High Activity for Electro-synthesis Hydrogen Peroxide. Angewandte Chemie, 2021, 133, 16743-16750.	2.0	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.	20.2	34
141	Electric-field promoted C-C coupling over Cu nanoneedles for CO ₂ electroreduction to C ₂ products. Chinese Journal of Catalysis, 2022, 43, 519-525.	14.0	34
142	A facile strategy for enhancing FeCu bimetallic promotion for catalytic phenol oxidation. Catalysis Science and Technology, 2015, 5, 3159-3165.	4.1	33
143	Oxygen-Deficient Nanofiber WO ₃ /WO ₃ Homojunction Photoanodes Synthesized via a Novel Metal Self-Reducing Method. ACS Applied Materials & Interfaces, 2019, 11, 39951-39960.	8.0	32
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