

# Yonghua Du

## List of Publications by Year in descending order

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197  
papers

20,576  
citations

8172

76  
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11047

137  
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198  
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198  
docs citations

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times ranked

21059  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical and structural origin of lattice oxygen oxidation in Co <sup>2+</sup> /Zn oxyhydroxide oxygen evolution electrocatalysts. <i>Nature Energy</i> , 2019, 4, 329-338.	19.8	977
2	High phase-purity 1T <sup>±</sup> -MoS <sub>2</sub> - and 1T <sup>±</sup> -MoSe <sub>2</sub> -layered crystals. <i>Nature Chemistry</i> , 2018, 10, 638-643.	6.6	757
3	Iron-facilitated dynamic active-site generation on spinel CoAl <sub>2</sub> O <sub>4</sub> with self-termination of surface reconstruction for water oxidation. <i>Nature Catalysis</i> , 2019, 2, 763-772.	16.1	678
4	<i>In Situ</i> Raman Spectroscopy of Copper and Copper Oxide Surfaces during Electrochemical Oxygen Evolution Reaction: Identification of Cu <sup>III</sup> Oxides as Catalytically Active Species. <i>ACS Catalysis</i> , 2016, 6, 2473-2481.	5.5	592
5	Defect Engineering of Oxygen-Deficient Manganese Oxide to Achieve High-Performing Aqueous Zinc Ion Battery. <i>Advanced Energy Materials</i> , 2019, 9, 1803815.	10.2	504
6	Single-Atomic Cu with Multiple Oxygen Vacancies on Ceria for Electrocatalytic CO <sub>2</sub> Reduction to CH <sub>4</sub> . <i>ACS Catalysis</i> , 2018, 8, 7113-7119.	5.5	486
7	Necklace-like Multishelled Hollow Spinel Oxides with Oxygen Vacancies for Efficient Water Electrolysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 13644-13653.	6.6	430
8	A Graphene-Supported Single-Atom FeN <sub>5</sub> Catalytic Site for Efficient Electrochemical CO <sub>2</sub> Reduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14871-14876.	7.2	410
9	Silica-Ceria sandwiched Ni core-shell catalyst for low temperature dry reforming of biogas: Coke resistance and mechanistic insights. <i>Applied Catalysis B: Environmental</i> , 2018, 230, 220-236.	10.8	370
10	Preparation of High-Percentage 1T-Phase Transition Metal Dichalcogenide Nanodots for Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018, 30, 1705509.	11.1	341
11	Enlarged Co <sup>2+</sup> /O Covalency in Octahedral Sites Leading to Highly Efficient Spinel Oxides for Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2018, 30, e1802912.	11.1	338
12	Post-synthesis modification of a metal-organic framework to construct a bifunctional photocatalyst for hydrogen production. <i>Energy and Environmental Science</i> , 2013, 6, 3229.	15.6	336
13	Metal Atom-Doped Co <sub>3</sub> O <sub>4</sub> Hierarchical Nanoplates for Electrocatalytic Oxygen Evolution. <i>Advanced Materials</i> , 2020, 32, e2002235.	11.1	332
14	Unique P <sub>1</sub> /Co <sub>1</sub> /N Surface Bonding States Constructed on g-C <sub>3</sub> N <sub>4</sub> Nanosheets for Drastically Enhanced Photocatalytic Activity of H <sub>2</sub> Evolution. <i>Advanced Functional Materials</i> , 2017, 27, 1604328.	7.8	329
15	A Flexible Microwave Shield with Tunable Frequency-Transmission and Electromagnetic Compatibility. <i>Advanced Functional Materials</i> , 2019, 29, 1900163.	7.8	299
16	Copper Single Atoms Anchored in Porous Nitrogen-Doped Carbon as Efficient pH-Universal Catalysts for the Nitrogen Reduction Reaction. <i>ACS Catalysis</i> , 2019, 9, 10166-10173.	5.5	284
17	Covalency competition dominates the water oxidation structure-activity relationship on spinel oxides. <i>Nature Catalysis</i> , 2020, 3, 554-563.	16.1	284
18	Bimetallic Ni-Cu catalyst supported on CeO <sub>2</sub> for high-temperature water-gas shift reaction: Methane suppression via enhanced CO adsorption. <i>Journal of Catalysis</i> , 2014, 314, 32-46.	3.1	268

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19	Tailoring the Co 3d-O 2p Covalency in LaCoO <sub>3</sub> by Fe Substitution To Promote Oxygen Evolution Reaction. Chemistry of Materials, 2017, 29, 10534-10541.	3.2	254
20	Exceptionally active iridium evolved from a pseudo-cubic perovskite for oxygen evolution in acid. Nature Communications, 2019, 10, 572.	5.8	254
21	Lithiation-induced amorphization of Pd <sub>3</sub> P <sub>2</sub> S <sub>8</sub> for highly efficient hydrogen evolution. Nature Catalysis, 2018, 1, 460-468.	16.1	247
22	Spatially separating redox centers on 2D carbon nitride with cobalt single atom for photocatalytic H <sub>2</sub> O <sub>2</sub> production. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6376-6382.	3.3	245
23	Electronic and Defective Engineering of Electrospun CaMnO <sub>3</sub> Nanotubes for Enhanced Oxygen Electrocatalysis in Rechargeable Zinc-Air Batteries. Advanced Energy Materials, 2018, 8, 1800612.	10.2	234
24	Activating and Optimizing Activity of CoS <sub>2</sub> for Hydrogen Evolution Reaction through the Synergic Effect of N Dopants and S Vacancies. ACS Energy Letters, 2017, 2, 1022-1028.	8.8	229
25	Shifting Oxygen Charge Towards Octahedral Metal: A Way to Promote Water Oxidation on Cobalt Spinel Oxides. Angewandte Chemie - International Edition, 2019, 58, 6042-6047.	7.2	226
26	Engineering Sulfur Defects, Atomic Thickness, and Porous Structures into Cobalt Sulfide Nanosheets for Efficient Electrocatalytic Alkaline Hydrogen Evolution. ACS Catalysis, 2018, 8, 8077-8083.	5.5	219
27	Nitrogen-doped cobalt phosphate@nanocarbon hybrids for efficient electrocatalytic oxygen reduction. Energy and Environmental Science, 2016, 9, 2563-2570.	15.6	216
28	Mastering Surface Reconstruction of Metastable Spinel Oxides for Better Water Oxidation. Advanced Materials, 2019, 31, e1807898.	11.1	215
29	A Highly Efficient Oxygen Evolution Catalyst Consisting of Interconnected Nickel-Iron Layered Double Hydroxide and Carbon Nanodomains. Advanced Materials, 2018, 30, 1705106.	11.1	209
30	Boosting Electrochemical CO <sub>2</sub> Reduction on Metal-Organic Frameworks via Ligand Doping. Angewandte Chemie - International Edition, 2019, 58, 4041-4045.	7.2	199
31	In Situ Electrochemical Conversion of an Ultrathin Tannin Nickel Iron Complex Film as an Efficient Oxygen Evolution Reaction Electrocatalyst. Angewandte Chemie - International Edition, 2019, 58, 3769-3773.	7.2	188
32	Auophilic Interactions in the Self-Assembly of Gold Nanoclusters into Nanoribbons with Enhanced Luminescence. Angewandte Chemie - International Edition, 2019, 58, 8139-8144.	7.2	185
33	Self-assembled iron-containing mordenite monolith for carbon dioxide sieving. Science, 2021, 373, 315-320.	6.0	179
34	Understanding the Nature of Ammonia Treatment to Synthesize Oxygen Vacancy-Enriched Transition Metal Oxides. Chem, 2019, 5, 376-389.	5.8	171
35	Improved Reversibility of Fe <sup>3+</sup> /Fe <sup>4+</sup> Redox Couple in Sodium Super Ion Conductor Type Na <sub>3</sub> Fe <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> for Sodium-Ion Batteries. Advanced Materials, 2017, 29, 1605694.	11.1	169
36	Ligand-Exchange-Induced Amorphization of Pd Nanomaterials for Highly Efficient Electrocatalytic Hydrogen Evolution Reaction. Advanced Materials, 2020, 32, e1902964.	11.1	164

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37	Enhanced Catalysis of the Electrochemical Oxygen Evolution Reaction by Iron(III) Ions Adsorbed on Amorphous Cobalt Oxide. <i>ACS Catalysis</i> , 2018, 8, 807-814.	5.5	163
38	Crystal Phase and Architecture Engineering of Lotusâ€‘Thalamusâ€‘Shaped Ptâ€‘Ni Anisotropic Superstructures for Highly Efficient Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018, 30, e1801741.	11.1	163
39	Cobalt Boron Imidazolate Framework Derived Cobalt Nanoparticles Encapsulated in B/N Codoped Nanocarbon as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>Advanced Functional Materials</i> , 2018, 28, 1801136.	7.8	155
40	Single-Atom Coated Separator for Robust Lithiumâ€‘Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 25147-25154.	4.0	152
41	Tuning of lattice oxygen reactivity and scaling relation to construct better oxygen evolution electrocatalyst. <i>Nature Communications</i> , 2021, 12, 3992.	5.8	151
42	Phosphonate-Based Metalâ€‘Organic Framework Derived Coâ€‘Pâ€‘C Hybrid as an Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2017, 7, 6000-6007.	5.5	149
43	Atomic engineering of high-density isolated Co atoms on graphene with proximal-atom controlled reaction selectivity. <i>Nature Communications</i> , 2018, 9, 3197.	5.8	146
44	Linkage Effect in the Heterogenization of Cobalt Complexes by Doped Graphene for Electrocatalytic CO <sub>2</sub> Reduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13532-13539.	7.2	143
45	Superexchange Effects on Oxygen Reduction Activity of Edgeâ€‘Sharing [Co <sub>x</sub> Mn <sub>1-x</sub> O <sub>6</sub> ] Octahedra in Spinel Oxide. <i>Advanced Materials</i> , 2018, 30, 1705407.	11.1	142
46	Enhanced Electrocatalytic Hydrogen Evolution Activity in Single-Atom Pt-Decorated VS <sub>2</sub> Nanosheets. <i>ACS Nano</i> , 2020, 14, 5600-5608.	7.3	135
47	Dielectric Polarization in Inverse Spinelâ€‘Structured Mg <sub>2</sub> TiO <sub>4</sub> Coating to Suppress Oxygen Evolution of Liâ€‘Rich Cathode Materials. <i>Advanced Materials</i> , 2020, 32, e2000496.	11.1	134
48	Enhanced oxygen evolution reaction by Co-O-C bonds in rationally designed Co <sub>3</sub> O <sub>4</sub> /graphene nanocomposites. <i>Nano Energy</i> , 2017, 33, 445-452.	8.2	131
49	High-performance NaFePO <sub>4</sub> formed by aqueous ion-exchange and its mechanism for advanced sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4882-4892.	5.2	129
50	Engineering Local and Global Structures of Single Co Atoms for a Superior Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2020, 10, 5862-5870.	5.5	126
51	XAFCA: a new XAFS beamline for catalysis research. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 839-843.	1.0	125
52	Lowering Charge Transfer Barrier of LiMn <sub>2</sub> O <sub>4</sub> via Nickel Surface Doping To Enhance Li <sup>+</sup> Intercalation Kinetics at Subzero Temperatures. <i>Journal of the American Chemical Society</i> , 2019, 141, 14038-14042.	6.6	125
53	Constructing an Adaptive Heterojunction as a Highly Active Catalyst for the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2020, 32, e2001292.	11.1	122
54	Materializing efficient methanol oxidation via electron delocalization in nickel hydroxide nanoribbon. <i>Nature Communications</i> , 2020, 11, 4647.	5.8	117

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55	2D carbide nanomeshes and their assembling into 3D microflowers for efficient water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 678-685.	10.8	116
56	Fluorine-tuned single-atom catalysts with dense surface Ni-N4 sites on ultrathin carbon nanosheets for efficient CO <sub>2</sub> electroreduction. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119591.	10.8	116
57	Amorphizing noble metal chalcogenide catalysts at the single-layer limit towards hydrogen production. <i>Nature Catalysis</i> , 2022, 5, 212-221.	16.1	113
58	Phase-Selective Epitaxial Growth of Heterophase Nanostructures on Unconventional 2H-Pd Nanoparticles. <i>Journal of the American Chemical Society</i> , 2020, 142, 18971-18980.	6.6	111
59	Activation of the MoSe <sub>2</sub> basal plane and Se-edge by B doping for enhanced hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 510-515.	5.2	110
60	Atomically-precise dopant-controlled single cluster catalysis for electrochemical nitrogen reduction. <i>Nature Communications</i> , 2020, 11, 4389.	5.8	110
61	Intercalation-Activated Layered MoO <sub>3</sub> Nanobelts as Biodegradable Nanozymes for Tumor-Specific Photo-Enhanced Catalytic Therapy. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	109
62	A Graphene-Supported Single-Atom FeN <sub>5</sub> Catalytic Site for Efficient Electrochemical CO <sub>2</sub> Reduction. <i>Angewandte Chemie</i> , 2019, 131, 15013-15018.	1.6	107
63	Antiferromagnetic Inverse Spinel Oxide LiCoVO <sub>4</sub> with Spin-Polarized Channels for Water Oxidation. <i>Advanced Materials</i> , 2020, 32, e1907976.	11.1	106
64	Mo-Terminated Edge Reconstructions in Nanoporous Molybdenum Disulfide Film. <i>Nano Letters</i> , 2018, 18, 482-490.	4.5	105
65	Ultra-high surface area graphitic Fe-N-C nanospheres with single-atom iron sites as highly efficient non-precious metal bifunctional catalysts towards oxygen redox reactions. <i>Journal of Catalysis</i> , 2018, 368, 279-290.	3.1	105
66	Preparation of 1T <sup>x</sup> -Phase ReS <sub>2</sub> Se <sub>2</sub> (1-x) (0 ≤ x ≤ 1) Nanodots for Highly Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2018, 140, 8563-8568.	6.6	104
67	Disruption of Putrescine Biosynthesis in <i>Shewanella oneidensis</i> Enhances Biofilm Cohesiveness and Performance in Cr(VI) Immobilization. <i>Applied and Environmental Microbiology</i> , 2014, 80, 1498-1506.	1.4	101
68	β-Al <sub>2</sub> O <sub>3</sub> sheet-stabilized isolate Co <sup>2+</sup> for catalytic propane dehydrogenation. <i>Journal of Catalysis</i> , 2020, 381, 482-492.	3.1	98
69	Identification of Facet-Governing Reactivity in Hematite for Oxygen Evolution. <i>Advanced Materials</i> , 2018, 30, e1804341.	11.1	96
70	Activating Layered Metal Oxide Nanomaterials via Structural Engineering as Biodegradable Nanoagents for Photothermal Cancer Therapy. <i>Small</i> , 2021, 17, e2007486.	5.2	94
71	Sandwich structure stabilized atomic Fe catalyst for highly efficient Fenton-like reaction at all pH values. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119551.	10.8	93
72	Identifying the Origin and Contribution of Surface Storage in TiO <sub>2</sub> (B) Nanotube Electrode by In Situ Dynamic Valence State Monitoring. <i>Advanced Materials</i> , 2018, 30, e1802200.	11.1	90

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73	Spatial Imaging and Speciation of Lead in the Accumulator Plant <i>Sedum alfredii</i> by Microscopically Focused Synchrotron X-ray Investigation. <i>Environmental Science &amp; Technology</i> , 2010, 44, 5920-5926.	4.6	89
74	An electron deficiency strategy for enhancing hydrogen evolution on CoP nano-electrocatalysts. <i>Nano Energy</i> , 2018, 50, 273-280.	8.2	89
75	High-temperature water-gas shift reaction over Ni/xK/CeO <sub>2</sub> catalysts: Suppression of methanation via formation of bridging carbonyls. <i>Journal of Catalysis</i> , 2015, 329, 130-143.	3.1	87
76	Mechanism of removal of arsenic by bead cellulose loaded with iron oxyhydroxide (Î²-FeOOH): EXAFS study. <i>Journal of Colloid and Interface Science</i> , 2007, 314, 427-433.	5.0	86
77	Highly Efficient Multifunctional Co-N-C Electrocatalysts with Synergistic Effects of Co-N Moieties and Co Metallic Nanoparticles Encapsulated in a N-Doped Carbon Matrix for Water-Splitting and Oxygen Redox Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 39809-39819.	4.0	80
78	One-Pot Synthesis of Fe(III)-Polydopamine Complex Nanospheres: Morphological Evolution, Mechanism, and Application of the Carbonized Hybrid Nanospheres in Catalysis and Zn-Air Battery. <i>Langmuir</i> , 2016, 32, 9265-9275.	1.6	78
79	Tuning the Electronic Structure of NiO via Li Doping for the Fast Oxygen Evolution Reaction. <i>Chemistry of Materials</i> , 2019, 31, 419-428.	3.2	78
80	Strain stabilized nickel hydroxide nanoribbons for efficient water splitting. <i>Energy and Environmental Science</i> , 2020, 13, 229-237.	15.6	78
81	Incorporation of Cl into sequentially deposited lead halide perovskite films for highly efficient mesoporous solar cells. <i>Nanoscale</i> , 2014, 6, 13854-13860.	2.8	76
82	Highly efficient rutile TiO <sub>2</sub> photocatalysts with single Cu(II) and Fe(III) surface catalytic sites. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3127-3138.	5.2	73
83	Stimulated Electrocatalytic Hydrogen Evolution Activity of MOF-Derived MoS <sub>2</sub> Basal Domains via Charge Injection through Surface Functionalization and Heteroatom Doping. <i>Advanced Science</i> , 2019, 6, 1900140.	5.6	73
84	Polyoxometalate immobilized in MIL-101(Cr) as an efficient catalyst for water oxidation. <i>Applied Catalysis A: General</i> , 2016, 521, 83-89.	2.2	70
85	Unleashing the Power and Energy of LiFePO <sub>4</sub> -Based Redox Flow Lithium Battery with a Bifunctional Redox Mediator. <i>Journal of the American Chemical Society</i> , 2017, 139, 6286-6289.	6.6	70
86	Shifting Oxygen Charge Towards Octahedral Metal: A Way to Promote Water Oxidation on Cobalt Spinel Oxides. <i>Angewandte Chemie</i> , 2019, 131, 6103-6108.	1.6	69
87	Identifying Influential Parameters of Octahedrally Coordinated Cations in Spinel ZnMn <sub>x</sub> Co <sub>2-x</sub> O <sub>4</sub> Oxides for the Oxidation Reaction. <i>ACS Catalysis</i> , 2018, 8, 8568-8577.	5.5	68
88	Immediate hydroxylation of arenes to phenols via V-containing all-silica ZSM-22 zeolite triggered non-radical mechanism. <i>Nature Communications</i> , 2018, 9, 2931.	5.8	66
89	Metal-Oxygen Hybridization Determined Activity in Spinel-Based Oxygen Evolution Catalysts: A Case Study of ZnFe <sub>2</sub> Cr <sub>x</sub> O <sub>4</sub> . <i>Chemistry of Materials</i> , 2018, 30, 6839-6848.	3.2	65
90	Evoking ordered vacancies in metallic nanostructures toward a vacated Barlow packing for high-performance hydrogen evolution. <i>Science Advances</i> , 2021, 7, .	4.7	64

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91	Intrinsic Ferromagnetism in the Diluted Magnetic Semiconductor $\text{CoTiO}_3$ . Physical Review Letters, 2016, 117, 227202.	2.9	63
92	Redox Targeting-Based Vanadium Redox-Flow Battery. ACS Energy Letters, 2019, 4, 3028-3035.	8.8	63
93	Approaching the Lithiation Limit of $\text{MoS}_2$ While Maintaining Its Layered Crystalline Structure to Improve Lithium Storage. Angewandte Chemie - International Edition, 2019, 58, 3521-3526.	7.2	62
94	Hybrid MOF-808-Tb nanospheres for highly sensitive and selective detection of acetone vapor and $\text{Fe}^{3+}$ in aqueous solution. Chemical Communications, 2019, 55, 4727-4730.	2.2	61
95	Highly active N,S co-doped hierarchical porous carbon nanospheres from green and template-free method for super capacitors and oxygen reduction reaction. Electrochimica Acta, 2019, 318, 272-280.	2.6	60
96	Revealing the Dominant Chemistry for Oxygen Reduction Reaction on Small Oxide Nanoparticles. ACS Catalysis, 2018, 8, 673-677.	5.5	58
97	$\text{FeOOH}$ : An Earth-Abundant High-Capacity Negative Electrode Material for Sodium-Ion Batteries. Chemistry of Materials, 2015, 27, 5340-5348.	3.2	57
98	Metal-organic framework immobilized cobalt oxide nanoparticles for efficient photocatalytic water oxidation. Journal of Materials Chemistry A, 2015, 3, 20607-20613.	5.2	57
99	Encapsulating porous $\text{SnO}_2$ into a hybrid nanocarbon matrix for long lifetime Li storage. Journal of Materials Chemistry A, 2017, 5, 25609-25617.	5.2	57
100	Superior Lithium Storage Properties of $\text{FeOOH}$ . Advanced Energy Materials, 2015, 5, 1401517.	10.2	56
101	Supported $\text{H}_4\text{SiW}_{12}\text{O}_{40}/\text{Al}_2\text{O}_3$ solid acid catalysts for dehydration of glycerol to acrolein: Evolution of catalyst structure and performance with calcination temperature. Applied Catalysis A: General, 2015, 489, 32-41.	2.2	56
102	Molecular-level design of Fe-N-C catalysts derived from Fe-dual pyridine coordination complexes for highly efficient oxygen reduction. Journal of Catalysis, 2019, 372, 245-257.	3.1	56
103	Zero-Valent Palladium Single-Atoms Catalysts Confined in Black Phosphorus for Efficient Semi-Hydrogenation. Advanced Materials, 2021, 33, e2008471.	11.1	55
104	Transition-Metal-Doped $\text{MnO}_2$ Nanorods as Bifunctional Catalysts for Efficient Oxygen Reduction and Evolution Reactions. ChemistrySelect, 2018, 3, 2613-2622.	0.7	54
105	Degree of Geometric Tilting Determines the Activity of $\text{FeO}_6$ Octahedra for Water Oxidation. Chemistry of Materials, 2018, 30, 4313-4320.	3.2	54
106	Interfacial Lattice-Strain-Driven Generation of Oxygen Vacancies in an Aerobic-Annealed $\text{TiO}_2$ (B) Electrode. Advanced Materials, 2019, 31, e1906156.	11.1	53
107	Intrinsically Conductive Perovskite Oxides with Enhanced Stability and Electrocatalytic Activity for Oxygen Reduction Reactions. ACS Catalysis, 2016, 6, 7865-7871.	5.5	51
108	Optimizing interfacial electronic coupling with metal oxide to activate inert polyaniline for superior electrocatalytic hydrogen generation. , 2019, 1, 77-84.		50

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109	CO <sub>2</sub> hydrogenation to methanol on tungsten-doped Cu/CeO <sub>2</sub> catalysts. <i>Applied Catalysis B: Environmental</i> , 2022, 306, 121098.	10.8	50
110	Vanadium-embedded mesoporous carbon microspheres as effective catalysts for selective aerobic oxidation of 5-hydroxymethyl-2-furfural into 2, 5-diformylfuran. <i>Applied Catalysis A: General</i> , 2018, 568, 16-22.	2.2	46
111	Electrochemical oxidation of C <sub>3</sub> saturated alcohols on Co <sub>3</sub> O <sub>4</sub> in alkaline. <i>Electrochimica Acta</i> , 2017, 228, 183-194.	2.6	45
112	Mesoporous 3D/2D NiCoP/g-C <sub>3</sub> N <sub>4</sub> Heterostructure with Dual Co <sup>N</sup> and Ni <sup>N</sup> Bonding States for Boosting Photocatalytic H <sub>2</sub> Production Activity and Stability. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12934-12943.	3.2	45
113	Spatial imaging and speciation of Cu in rice ( <i>Oryza sativa</i> L.) roots using synchrotron-based X-ray microfluorescence and X-ray absorption spectroscopy. <i>Chemosphere</i> , 2017, 175, 356-364.	4.2	44
114	Fe <sub>2</sub> O <sub>3</sub> Nanoparticle/SWCNT Composite Electrode for Sensitive Electrocatalytic Oxidation of Hydroquinone. <i>Electrochimica Acta</i> , 2015, 180, 1059-1067.	2.6	43
115	Redox-targeted catalysis for vanadium redox-flow batteries. <i>Nano Energy</i> , 2018, 52, 292-299.	8.2	43
116	Rational Design and Synthesis of Hierarchical Porous Mn <sup>N</sup> C Nanoparticles with Atomically Dispersed Mn <sup>x</sup> Moieties for Highly Efficient Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9367-9376.	3.2	43
117	Grafting nanometer metal/oxide interface towards enhanced low-temperature acetylene semi-hydrogenation. <i>Nature Communications</i> , 2021, 12, 5770.	5.8	43
118	An ultrathin solid-state electrolyte film coated on LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> electrode surface for enhanced performance of lithium-ion batteries. <i>Energy Storage Materials</i> , 2022, 45, 1165-1174.	9.5	43
119	Spectroscopic Characterization and Mechanistic Studies on Visible Light Photoredox Carbon <sup>N</sup> Carbon Bond Formation by Bis(arylimino)acenaphthene Copper Photosensitizers. <i>ACS Catalysis</i> , 2018, 8, 11277-11286.	5.5	42
120	Facile synthesis of copper nanoparticles in glycerol at room temperature: formation mechanism. <i>RSC Advances</i> , 2015, 5, 24544-24549.	1.7	40
121	Oxygen Tuned Local Structure and Phase-Change Performance of Germanium Telluride. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 20185-20191.	4.0	40
122	Nitrogen-Doped Cobalt Phosphide for Enhanced Hydrogen Evolution Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 17359-17367.	4.0	40
123	Promoted Glycerol Oxidation Reaction in an Interface <sup>N</sup> Confined Hierarchically Structured Catalyst. <i>Advanced Materials</i> , 2019, 31, e1804763.	11.1	40
124	Hydrazone-based covalent organic frameworks for Lewis acid catalysis. <i>Dalton Transactions</i> , 2018, 47, 13824-13829.	1.6	39
125	Surface coupling of methyl radicals for efficient low-temperature oxidative coupling of methane. <i>Chinese Journal of Catalysis</i> , 2021, 42, 1117-1125.	6.9	39
126	Spinel Manganese Ferrites for Oxygen Electrocatalysis: Effect of Mn Valency and Occupation Site. <i>Electrocatalysis</i> , 2018, 9, 287-292.	1.5	38

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127	Unraveling the Formation of Amorphous MoS <sub>2</sub> Nanograins during the Electrochemical Delithiation Process. <i>Advanced Functional Materials</i> , 2019, 29, 1904843.	7.8	38
128	Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> as the Sole Solid Energy Storage Material for Redox Flow Sodium-Ion Battery. <i>Advanced Energy Materials</i> , 2019, 9, 1901188.	10.2	38
129	Origin of electronic structure dependent activity of spinel Zn <sub>Nix</sub> Co <sub>2-x</sub> O <sub>4</sub> oxides for complete methane oxidation. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117844.	10.8	35
130	Highly Selective Acetylene Semihydrogenation Catalyst with an Operation Window Exceeding 150 °C. <i>ACS Catalysis</i> , 2021, 11, 6073-6080.	5.5	33
131	Thickness-dependent twinning evolution and ferroelectric behavior of epitaxial BiFeO <sub>3</sub> thin films. <i>Physical Review B</i> , 2010, 82, .	1.1	32
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