

Li Rong Zheng

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

353
papers

29,294
citations

88
h-index

163
g-index

366
ext. papers

38,007
ext. citations

12.2
avg, IF

7.57
L-index

#	Paper	IF	Citations
353	Homogeneously dispersed multimetal oxygen-evolving catalysts. <i>Science</i> , 2016 , 352, 333-7	33.3	1459
352	Single Cobalt Atoms with Precise N-Coordination as Superior Oxygen Reduction Reaction Catalysts. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10800-5	16.4	1397
351	Isolated Single Iron Atoms Anchored on N-Doped Porous Carbon as an Efficient Electrocatalyst for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6937-6941	16.4	1138
350	Design of Single-Atom Co-N Catalytic Site: A Robust Electrocatalyst for CO Reduction with Nearly 100% CO Selectivity and Remarkable Stability. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4218-4221	16.4	634
349	Fe ₁ N ₁ C electrocatalyst with dense active sites and efficient mass transport for high-performance proton exchange membrane fuel cells. <i>Nature Catalysis</i> , 2019 , 2, 259-268	36.5	580
348	Functionalized Nano-MoS with Peroxidase Catalytic and Near-Infrared Photothermal Activities for Safe and Synergetic Wound Antibacterial Applications. <i>ACS Nano</i> , 2016 , 10, 11000-11011	16.7	572
347	A Voltage-Boosting Strategy Enabling a Low-Frequency, Flexible Electromagnetic Wave Absorption Device. <i>Advanced Materials</i> , 2018 , 30, e1706343	24	503
346	Defect Effects on TiO Nanosheets: Stabilizing Single Atomic Site Au and Promoting Catalytic Properties. <i>Advanced Materials</i> , 2018 , 30, 1705369	24	474
345	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. <i>Nature Nanotechnology</i> , 2018 , 13, 856-861	28.7	471
344	Hollow N-Doped Carbon Spheres with Isolated Cobalt Single Atomic Sites: Superior Electrocatalysts for Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17269-17272	16.4	444
343	Enhanced oxygen reduction with single-atomic-site iron catalysts for a zinc-air battery and hydrogen-air fuel cell. <i>Nature Communications</i> , 2018 , 9, 5422	17.4	431
342	Uncoordinated Amine Groups of Metal-Organic Frameworks to Anchor Single Ru Sites as Chemoselective Catalysts toward the Hydrogenation of Quinoline. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9419-9422	16.4	389
341	Doping-Enhanced Short-Range Order of Perovskite Nanocrystals for Near-Unity Violet Luminescence Quantum Yield. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9942-9951	16.4	380
340	Metal-Organic-Framework-Derived Fe-N/C Electrocatalyst with Five-Coordinated Fe-N _x Sites for Advanced Oxygen Reduction in Acid Media. <i>ACS Catalysis</i> , 2017 , 7, 1655-1663	13.1	359
339	Layered-Double-Hydroxide Nanosheets as Efficient Visible-Light-Driven Photocatalysts for Dinitrogen Fixation. <i>Advanced Materials</i> , 2017 , 29, 1703828	24	342
338	Fe Isolated Single Atoms on S, N Codoped Carbon by Copolymer Pyrolysis Strategy for Highly Efficient Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2018 , 30, e1800588	24	338
337	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO. <i>Nature Chemistry</i> , 2019 , 11, 222-228	17.6	337

336	A Single-Atom Nanozyme for Wound Disinfection Applications. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4911-4916	16.4	335
335	Active Site Dependent Reaction Mechanism over Ru/CeO ₂ Catalyst toward CO ₂ Methanation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6298-305	16.4	322
334	A Bimetallic Zn/Fe Polyphthalocyanine-Derived Single-Atom Fe-N Catalytic Site: A Superior Trifunctional Catalyst for Overall Water Splitting and Zn-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8614-8618	16.4	305
333	Rational Design of Single Molybdenum Atoms Anchored on N-Doped Carbon for Effective Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16086-16090	16.4	299
332	Introduction of amino groups into acid-resistant MOFs for enhanced U(VI) sorption. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 525-534	13	293
331	Defect Engineering in Two Common Types of Dielectric Materials for Electromagnetic Absorption Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1901236	15.6	285
330	MXene (TiC) Vacancy-Confined Single-Atom Catalyst for Efficient Functionalization of CO. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4086-4093	16.4	277
329	Activating cobalt(II) oxide nanorods for efficient electrocatalysis by strain engineering. <i>Nature Communications</i> , 2017 , 8, 1509	17.4	276
328	Cobalt Covalent Doping in MoS ₂ to Induce Bifunctionality of Overall Water Splitting. <i>Advanced Materials</i> , 2018 , 30, e1801450	24	273
327	Boosting oxygen evolution of single-atomic ruthenium through electronic coupling with cobalt-iron layered double hydroxides. <i>Nature Communications</i> , 2019 , 10, 1711	17.4	271
326	Single-Atom to Single-Atom Grafting of Pt ₁ onto Fe ₂ N ₄ Center: Pt ₁ @Fe ₂ N ₄ C Multifunctional Electrocatalyst with Significantly Enhanced Properties. <i>Advanced Energy Materials</i> , 2018 , 8, 1701345	21.8	255
325	Isolated Single Iron Atoms Anchored on N-Doped Porous Carbon as an Efficient Electrocatalyst for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2017 , 129, 7041-7045	3.6	241
324	Preparation of High-Percentage 1T-Phase Transition Metal Dichalcogenide Nanodots for Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018 , 30, 1705509	24	234
323	Regulating the Coordination Environment of MOF-Templated Single-Atom Nickel Electrocatalysts for Boosting CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2705-2709	16.4	227
322	The Solid-Phase Synthesis of an Fe-N-C Electrocatalyst for High-Power Proton-Exchange Membrane Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1204-1208	16.4	227
321	Atomically Dispersed Fe/N-Doped Hierarchical Carbon Architectures Derived from a Metal-Organic Framework Composite for Extremely Efficient Electrocatalysis. <i>ACS Energy Letters</i> , 2017 , 2, 504-511	20.1	223
320	Local atomic structure modulations activate metal oxide as electrocatalyst for hydrogen evolution in acidic water. <i>Nature Communications</i> , 2015 , 6, 8064	17.4	214
319	Enhanced Photocatalytic Removal of Uranium(VI) from Aqueous Solution by Magnetic TiO ₂ /FeO and Its Graphene Composite. <i>Environmental Science & Technology</i> , 2017 , 51, 5666-5674	10.3	211

318	Engineering unsymmetrically coordinated Cu-SN single atom sites with enhanced oxygen reduction activity. <i>Nature Communications</i> , 2020 , 11, 3049	17.4	210
317	A Polymer Encapsulation Strategy to Synthesize Porous Nitrogen-Doped Carbon-Nanosphere-Supported Metal Isolated-Single-Atomic-Site Catalysts. <i>Advanced Materials</i> , 2018 , 30, e1706508	24	203
316	Electronic structure engineering to boost oxygen reduction activity by controlling the coordination of the central metal. <i>Energy and Environmental Science</i> , 2018 , 11, 2348-2352	35.4	203
315	Engineering the Atomic Interface with Single Platinum Atoms for Enhanced Photocatalytic Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1295-1301	16.4	197
314	Metal (Hydr)oxides@Polymer Core-Shell Strategy to Metal Single-Atom Materials. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10976-10979	16.4	193
313	Constructing NiCo/FeO Heteroparticles within MOF-74 for Efficient Oxygen Evolution Reactions. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15336-15341	16.4	193
312	NiFe Hydroxide Lattice Tensile Strain: Enhancement of Adsorption of Oxygenated Intermediates for Efficient Water Oxidation Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 736-740	16.4	188
311	A general route via formamide condensation to prepare atomically dispersed metal/nitrogen/carbon electrocatalysts for energy technologies. <i>Energy and Environmental Science</i> , 2019 , 12, 1317-1325	35.4	181
310	Cation vacancy stabilization of single-atomic-site Pt/Ni(OH) catalyst for diboration of alkynes and alkenes. <i>Nature Communications</i> , 2018 , 9, 1002	17.4	179
309	Interaction mechanism of uranium(VI) with three-dimensional graphene oxide-chitosan composite: Insights from batch experiments, IR, XPS, and EXAFS spectroscopy. <i>Chemical Engineering Journal</i> , 2017 , 328, 1066-1074	14.7	176
308	Thermal Emitting Strategy to Synthesize Atomically Dispersed Pt Metal Sites from Bulk Pt Metal. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4505-4509	16.4	174
307	Regulating the coordination structure of single-atom Fe-NC catalytic sites for benzene oxidation. <i>Nature Communications</i> , 2019 , 10, 4290	17.4	173
306	Black Phosphorus Quantum Dot/Ti3C2 MXene Nanosheet Composites for Efficient Electrochemical Lithium/Sodium-Ion Storage. <i>Advanced Energy Materials</i> , 2018 , 8, 1801514	21.8	170
305	Pd Single-Atom Catalysts on Nitrogen-Doped Graphene for the Highly Selective Photothermal Hydrogenation of Acetylene to Ethylene. <i>Advanced Materials</i> , 2019 , 31, e1900509	24	164
304	Rational Design of Fe/N/C Hybrid for Enhanced Nitrogen Reduction Electrocatalysis under Ambient Conditions in Aqueous Solution. <i>ACS Catalysis</i> , 2019 , 9, 336-344	13.1	164
303	Unidirectional suppression of hydrogen oxidation on oxidized platinum clusters. <i>Nature Communications</i> , 2013 , 4, 2500	17.4	162
302	Highly active, stable oxidized platinum clusters as electrocatalysts for the hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2017 , 10, 2450-2458	35.4	160
301	Carbon dioxide electroreduction to C products over copper-cuprous oxide derived from electrosynthesized copper complex. <i>Nature Communications</i> , 2019 , 10, 3851	17.4	159

300	Functionalized MoS Nanovehicle with Near-Infrared Laser-Mediated Nitric Oxide Release and Photothermal Activities for Advanced Bacteria-Infected Wound Therapy. <i>Small</i> , 2018 , 14, e1802290	11	158
299	Well-Dispersed Nickel- and Zinc-Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2019 , 31, e1807771	24	149
298	Controlling N-doping type in carbon to boost single-atom site Cu catalyzed transfer hydrogenation of quinoline. <i>Nano Research</i> , 2020 , 13, 3082-3087	10	149
297	Hydrogen Evolution Reaction in Alkaline Media: Alpha- or Beta-Nickel Hydroxide on the Surface of Platinum?. <i>ACS Energy Letters</i> , 2018 , 3, 237-244	20.1	148
296	TiO ₂ -Modified Ni Nanocatalyst with Tunable Metal-Support Interaction for Water-Gas Shift Reaction. <i>ACS Catalysis</i> , 2017 , 7, 7600-7609	13.1	147
295	Efficient U(VI) Reduction and Sequestration by TiCT MXene. <i>Environmental Science & Technology</i> , 2018 , 52, 10748-10756	10.3	147
294	Discovering Partially Charged Single-Atom Pt for Enhanced Anti-Markovnikov Alkene Hydrosilylation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7407-7410	16.4	147
293	Manganese acting as a high-performance heterogeneous electrocatalyst in carbon dioxide reduction. <i>Nature Communications</i> , 2019 , 10, 2980	17.4	144
292	Rational Design of Holey 2D Nonlayered Transition Metal Carbide/Nitride Heterostructure Nanosheets for Highly Efficient Water Oxidation. <i>Advanced Energy Materials</i> , 2019 , 9, 1803768	21.8	143
291	Interface confined hydrogen evolution reaction in zero valent metal nanoparticles-intercalated molybdenum disulfide. <i>Nature Communications</i> , 2017 , 8, 14548	17.4	139
290	Insights into the effects of surface/bulk defects on photocatalytic hydrogen evolution over TiO ₂ with exposed {001} facets. <i>Applied Catalysis B: Environmental</i> , 2018 , 220, 126-136	21.8	138
289	Engineering Isolated Mn-NC Atomic Interface Sites for Efficient Bifunctional Oxygen Reduction and Evolution Reaction. <i>Nano Letters</i> , 2020 , 20, 5443-5450	11.5	135
288	Unraveling sorption of lead in aqueous solutions by chemically modified biochar derived from coconut fiber: A microscopic and spectroscopic investigation. <i>Science of the Total Environment</i> , 2017 , 576, 766-774	10.2	134
287	A cocoon silk chemistry strategy to ultrathin N-doped carbon nanosheet with metal single-site catalysts. <i>Nature Communications</i> , 2018 , 9, 3861	17.4	132
286	Insights into Interfacial Synergistic Catalysis over Ni@TiO Catalyst toward Water-Gas Shift Reaction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11241-11251	16.4	129
285	Isolated Fe and Co dual active sites on nitrogen-doped carbon for a highly efficient oxygen reduction reaction. <i>Chemical Communications</i> , 2018 , 54, 4274-4277	5.8	128
284	3D N-doped ordered mesoporous carbon supported single-atom Fe-N-C catalysts with superior performance for oxygen reduction reaction and zinc-air battery. <i>Applied Catalysis B: Environmental</i> , 2021 , 280, 119411	21.8	127
283	A General Strategy for Fabricating Isolated Single Metal Atomic Site Catalysts in Y Zeolite. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9305-9311	16.4	124

- 282 Confined small-sized cobalt catalysts stimulate carbon-chain growth reversely by modifying ASF law of Fischer-Tropsch synthesis. *Nature Communications*, **2018**, 9, 3250 17.4 124
- 281 Ordered Porous Nitrogen-Doped Carbon Matrix with Atomically Dispersed Cobalt Sites as an Efficient Catalyst for Dehydrogenation and Transfer Hydrogenation of N-Heterocycles. *Angewandte Chemie - International Edition*, **2018**, 57, 11262-11266 16.4 119
- 280 Relationship between Iron Carbide Phases ($\gamma\text{-Fe}_2\text{C}$, Fe_7C_3 , and $\delta\text{-Fe}_5\text{C}_2$) and Catalytic Performances of Fe/SiO₂ Fischer-Tropsch Catalysts. *ACS Catalysis*, **2018**, 8, 3304-3316 13.1 116
- 279 Ni₂P(O)/Fe₂P(O) Interface Can Boost Oxygen Evolution Electrocatalysis. *ACS Energy Letters*, **2017**, 2, 2257-2263 20.1 116
- 278 Rare Earth Single-Atom Catalysts for Nitrogen and Carbon Dioxide Reduction. *ACS Nano*, **2020**, 14, 1093-1101 16.9 109
- 277 Origin of the different phytotoxicity and biotransformation of cerium and lanthanum oxide nanoparticles in cucumber. *Nanotoxicology*, **2015**, 9, 262-70 5.3 102
- 276 X-ray-activated long persistent phosphors featuring strong UVC afterglow emissions. *Light: Science and Applications*, **2018**, 7, 88 16.7 97
- 275 A Mn-N single-atom catalyst embedded in graphitic carbon nitride for efficient CO electroreduction. *Nature Communications*, **2020**, 11, 4341 17.4 96
- 274 Effective Removal of Anionic Re(VII) by Surface-Modified TiCT MXene Nanocomposites: Implications for Tc(VII) Sequestration. *Environmental Science & Technology*, **2019**, 53, 3739-3747 10.3 94
- 273 Preparation of Fe_NC catalysts with FeN_x (x = 1, 3, 4) active sites and comparison of their activities for the oxygen reduction reaction and performances in proton exchange membrane fuel cells. *Journal of Materials Chemistry A*, **2019**, 7, 26147-26153 13 94
- 272 Tuning Metal Catalyst with Metal-C₃N₄ Interaction for Efficient CO₂ Electroreduction. *ACS Catalysis*, **2018**, 8, 11035-11041 13.1 94
- 271 Study of the Active Sites in Porous Nickel Oxide Nanosheets by Manganese Modulation for Enhanced Oxygen Evolution Catalysis. *ACS Energy Letters*, **2018**, 3, 2150-2158 20.1 93
- 270 Species-specific toxicity of ceria nanoparticles to Lactuca plants. *Nanotoxicology*, **2015**, 9, 1-8 5.3 91
- 269 MIL-125-NH@TiO Core-Shell Particles Produced by a Post-Solvothermal Route for High-Performance Photocatalytic H₂ Production. *ACS Applied Materials & Interfaces*, **2018**, 10, 16418-16423 9.5 91
- 268 Electrochemical etching of $\gamma\text{-Co(OH)}_2$ for improvement of oxygen evolution reaction. *Journal of Materials Chemistry A*, **2016**, 4, 9578-9584 13 91
- 267 Mo activated multimetal oxygen-evolving catalysts. *Chemical Science*, **2017**, 8, 3484-3488 9.4 88
- 266 Potential-Dependent Phase Transition and Mo-Enriched Surface Reconstruction of $\gamma\text{-CoOOH}$ in a Heterostructured Co-Mo₂C Precatalyst Enable Water Oxidation. *ACS Catalysis*, **2020**, 10, 4411-4419 13.1 88
- 265 A three-dimensional hierarchically porous Mo₂C architecture: salt-template synthesis of a robust electrocatalyst and anode material towards the hydrogen evolution reaction and lithium storage. *Journal of Materials Chemistry A*, **2017**, 5, 20228-20238 13 87

264	Au ₁ Co ₁ Fe ₁ Ni ₁ P ₁ Interfacial Site: Catalytic Active Center toward Low-Temperature Water Gas Shift Reaction. <i>ACS Catalysis</i> , 2019 , 9, 2707-2717	13.1	84
263	Porphyrim-like Fe-N ₄ sites with sulfur adjustment on hierarchical porous carbon for different rate-determining steps in oxygen reduction reaction. <i>Nano Research</i> , 2018 , 11, 6260-6269	10	83
262	Enhancing the Catalytic Activity of Co ₃ O ₄ for Li ₂ O ₂ Batteries through the Synergy of Surface/Interface/Doping Engineering. <i>ACS Catalysis</i> , 2018 , 8, 1955-1963	13.1	81
261	Active sites on hydrogen evolution photocatalyst. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 15258	13	81
260	Diesel soot elimination over potassium-promoted Co ₃ O ₄ nanowires monolithic catalysts under gravitation contact mode. <i>Applied Catalysis B: Environmental</i> , 2017 , 218, 32-45	21.8	79
259	Scale-Up Biomass Pathway to Cobalt Single-Site Catalysts Anchored on N-Doped Porous Carbon Nanobelt with Ultrahigh Surface Area. <i>Advanced Functional Materials</i> , 2018 , 28, 1802167	15.6	78
258	Effective removal of U(VI) and Eu(III) by carboxyl functionalized MXene nanosheets. <i>Journal of Hazardous Materials</i> , 2020 , 396, 122731	12.8	75
257	One-Pot Pyrolysis to N-Doped Graphene with High-Density Pt Single Atomic Sites as Heterogeneous Catalyst for Alkene Hydrosilylation. <i>ACS Catalysis</i> , 2018 , 8, 10004-10011	13.1	75
256	Where Does the Transformation of Precipitated Ceria Nanoparticles in Hydroponic Plants Take Place?. <i>Environmental Science & Technology</i> , 2015 , 49, 10667-74	10.3	74
255	Atomic Insights for Optimum and Excess Doping in Photocatalysis: A Case Study of Few-Layer Cu-ZnIn ₂ S ₄ . <i>Advanced Functional Materials</i> , 2019 , 29, 1807013	15.6	74
254	Transformation of ceria nanoparticles in cucumber plants is influenced by phosphate. <i>Environmental Pollution</i> , 2015 , 198, 8-14	9.3	73
253	Simultaneous elimination of cationic uranium(VI) and anionic rhenium(VII) by graphene oxide/poly(ethyleneimine) macrostructures: a batch, XPS, EXAFS, and DFT combined study. <i>Environmental Science: Nano</i> , 2018 , 5, 2077-2087	7.1	72
252	Ionic liquid accelerates the crystallization of Zr-based metal-organic frameworks. <i>Nature Communications</i> , 2017 , 8, 175	17.4	72
251	Xylem and Phloem Based Transport of CeO Nanoparticles in Hydroponic Cucumber Plants. <i>Environmental Science & Technology</i> , 2017 , 51, 5215-5221	10.3	71
250	Electrocatalytically Active Fe-(O-C) Single-Atom Sites for Efficient Reduction of Nitrogen to Ammonia. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13423-13429	16.4	71
249	Iridium-Triggered Phase Transition of MoS ₂ Nanosheets Boosts Overall Water Splitting in Alkaline Media. <i>ACS Energy Letters</i> , 2019 , 4, 368-374	20.1	71
248	Amorphous Vanadium Oxide/Molybdenum Oxide Hybrid with Three-Dimensional Ordered Hierarchically Porous Structure as a High-Performance Li-Ion Battery Anode. <i>Chemistry of Materials</i> , 2016 , 28, 4180-4190	9.6	68
247	CoO/CoP Heterostructured Nanosheets with an OB Interpenetrated Interface as a Bifunctional Electrocatalyst for Na ₂ O ₂ Battery. <i>ACS Catalysis</i> , 2018 , 8, 8953-8960	13.1	68

- 246 The Role of Alkali Metal in MnO Catalyzed Ammonia-Selective Catalysis. *Angewandte Chemie - International Edition*, **2019**, 58, 6351-6356 16.4 65
- 245 Aqueous CO Reduction with High Efficiency Using FeCo(OH)-Supported Atomic Ir Electrocatalysts. *Angewandte Chemie - International Edition*, **2019**, 58, 4669-4673 16.4 65
- 244 1D/1D Hierarchical Nickel Sulfide/Phosphide Nanostructures for Electrocatalytic Water Oxidation. *ACS Energy Letters*, **2018**, 3, 2021-2029 20.1 65
- 243 Black Tungsten Nitride as a Metallic Photocatalyst for Overall Water Splitting Operable at up to 765 nm. *Angewandte Chemie - International Edition*, **2017**, 56, 7430-7434 16.4 64
- 242 Activating Layered Double Hydroxide with Multivacancies by Memory Effect for Energy-Efficient Hydrogen Production at Neutral pH. *ACS Energy Letters*, **2019**, 4, 1412-1418 20.1 64
- 241 Coordination structure dominated performance of single-atomic Pt catalyst for anti-Markovnikov hydroboration of alkenes. *Science China Materials*, **2020**, 63, 972-981 7.1 62
- 240 Coordination Number Regulation of Molybdenum Single-Atom Nanozyme Peroxidase-like Specificity. *CheM*, **2021**, 7, 436-449 16.2 62
- 239 Highly Efficient Electroreduction of CO to C₂+ Alcohols on Heterogeneous Dual Active Sites. *Angewandte Chemie - International Edition*, **2020**, 59, 16459-16464 16.4 61
- 238 LiSrCa(SiO):Eu: A Potential Temperature Sensor with Unique Optical Thermometric Properties. *ACS Applied Materials & Interfaces*, **2019**, 11, 9691-9695 9.5 61
- 237 Isolating contiguous Pt atoms and forming Pt-Zn intermetallic nanoparticles to regulate selectivity in 4-nitrophenylacetylene hydrogenation. *Nature Communications*, **2019**, 10, 3787 17.4 60
- 236 Molecular-Level Insight into Selective Catalytic Reduction of NO_x with NH₃ to N₂ over a Highly Efficient Bifunctional Va-MnO_x Catalyst at Low Temperature. *ACS Catalysis*, **2018**, 8, 4937-4949 13.1 59
- 235 Quasi free K cations confined in hollandite-type tunnels for catalytic solid (catalyst)-solid (reactant) oxidation reactions. *Applied Catalysis B: Environmental*, **2018**, 232, 108-116 21.8 59
- 234 Implications of mercury speciation in thiosulfate treated plants. *Environmental Science & Technology*, **2012**, 46, 5361-8 10.3 59
- 233 Revealing the Intrinsic Peroxidase-Like Catalytic Mechanism of Heterogeneous Single-Atom Co-MoS. *Nano-Micro Letters*, **2019**, 11, 102 19.5 59
- 232 Single Ni sites distributed on N-doped carbon for selective hydrogenation of acetylene. *Chemical Communications*, **2017**, 53, 11568-11571 5.8 58
- 231 Insights into the role of active site density in the fuel cell performance of Co-N-C catalysts. *Applied Catalysis B: Environmental*, **2019**, 256, 117849 21.8 58
- 230 Sequential Synthesis and Active-Site Coordination Principle of Precious Metal Single-Atom Catalysts for Oxygen Reduction Reaction and PEM Fuel Cells. *Advanced Energy Materials*, **2020**, 10, 2000689 21.8 55
- 229 Isolation of single Pt atoms in a silver cluster: forming highly efficient silver-based cocatalysts for photocatalytic hydrogen evolution. *Chemical Communications*, **2017**, 53, 9402-9405 5.8 55

228	Organophosphoric acid-derived CoP quantum dots@S,N-codoped graphite carbon as a trifunctional electrocatalyst for overall water splitting and Zn-air batteries. <i>Nanoscale</i> , 2018 , 10, 14613-14626	7.7	55
227	Tuning Polarity of Cu-O Bond in Heterogeneous Cu Catalyst to Promote Additive-free Hydroboration of Alkynes. <i>Chem</i> , 2020 , 6, 725-737	16.2	53
226	Coordination mode engineering in stacked-nanosheet metal-organic frameworks to enhance catalytic reactivity and structural robustness. <i>Nature Communications</i> , 2019 , 10, 2779	17.4	52
225	One-step synthesis of ultrathin FeCo(OH) nanomeshes and their high electrocatalytic activity toward the oxygen evolution reaction. <i>Chemical Communications</i> , 2018 , 54, 4045-4048	5.8	52
224	Elucidating the mechanism of the structure-dependent enzymatic activity of Fe-N/C oxidase mimics. <i>Chemical Communications</i> , 2019 , 55, 5271-5274	5.8	51
223	Toward Bifunctional Overall Water Splitting Electrocatalyst: General Preparation of Transition Metal Phosphide Nanoparticles Decorated N-Doped Porous Carbon Spheres. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44201-44208	9.5	51
222	Sorption mechanisms of lead on silicon-rich biochar in aqueous solution: Spectroscopic investigation. <i>Science of the Total Environment</i> , 2019 , 672, 572-582	10.2	50
221	Atomically Dispersed FeHeteroatom (N, S) Bridge Sites Anchored on Carbon Nanosheets for Promoting Oxygen Reduction Reaction. <i>ACS Energy Letters</i> , 2021 , 6, 379-386	20.1	49
220	Fabrication of 2D metal-organic framework nanosheets with tailorable thickness using bio-based surfactants and their application in catalysis. <i>Green Chemistry</i> , 2019 , 21, 54-58	10	48
219	Enhanced catalytic performance for CO preferential oxidation over CuO catalysts supported on highly defective CeO2 nanocrystals. <i>Applied Surface Science</i> , 2017 , 422, 932-943	6.7	48
218	Insights on Active Sites of CaAl-Hydrotalcite as a High-Performance Solid Base Catalyst toward Aldol Condensation. <i>ACS Catalysis</i> , 2018 , 8, 656-664	13.1	48
217	Controlling Selective Doping and Energy Transfer between Transition Metal and Rare Earth Ions in Nanostructured Glassy Solids. <i>Advanced Optical Materials</i> , 2018 , 6, 1701407	8.1	47
216	Ultrathin Co3O4 Nanosheets with Edge-Enriched {111} Planes as Efficient Catalysts for Lithium-Oxygen Batteries. <i>ACS Catalysis</i> , 2019 , 9, 3773-3782	13.1	45
215	Nitrogen-Stabilized Low-Valent Ni Motifs for Efficient CO2 Electrocatalysis. <i>ACS Catalysis</i> , 2020 , 10, 1086-1093	13.1	45
214	Self-assembled iron-containing mordenite monolith for carbon dioxide sieving. <i>Science</i> , 2021 , 373, 315-320	33.3	45
213	Engineering defect-rich Fe-doped NiO coupled Ni cluster nanotube arrays with excellent oxygen evolution activity. <i>Applied Catalysis B: Environmental</i> , 2021 , 285, 119809	21.8	45
212	Copper single-atom catalysts with photothermal performance and enhanced nanozyme activity for bacteria-infected wound therapy. <i>Bioactive Materials</i> , 2021 , 6, 4389-4401	16.7	45
211	Twinned Tungsten Carbonitride Nanocrystals Boost Hydrogen Evolution Activity and Stability. <i>Small</i> , 2019 , 15, e1900248	11	44

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209	Fabricating Pd isolated single atom sites on C ₃ N ₄ /rGO for heterogenization of homogeneous catalysis. <i>Nano Research</i> , 2020 , 13, 947-951	10	41
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