

Wenxing Chen

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232
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20,857
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74
h-index

142
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244
ext. papers

27,918
ext. citations

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L-index

#	Paper	IF	Citations
232	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
231	General synthesis and definitive structural identification of MN ₄ C ₄ single-atom catalysts with tunable electrocatalytic activities. <i>Nature Catalysis</i> , 2018 , 1, 63-72	36.5	968
230	Ionic Exchange of Metal-Organic Frameworks to Access Single Nickel Sites for Efficient Electroreduction of CO. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8078-8081	16.4	825
229	Design of N-Coordinated Dual-Metal Sites: A Stable and Active Pt-Free Catalyst for Acidic Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17281-17284	16.4	815
228	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
227	Regulation of Coordination Number over Single Co Sites: Triggering the Efficient Electroreduction of CO. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1944-1948	16.4	607
226	Direct transformation of bulk copper into copper single sites via emitting and trapping of atoms. <i>Nature Catalysis</i> , 2018 , 1, 781-786	36.5	492
225	Defect Effects on TiO Nanosheets: Stabilizing Single Atomic Site Au and Promoting Catalytic Properties. <i>Advanced Materials</i> , 2018 , 30, 1705369	24	474
224	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. <i>Nature Nanotechnology</i> , 2018 , 13, 856-861	28.7	471
223	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
222	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
221	Engineering the electronic structure of single atom Ru sites via compressive strain boosts acidic water oxidation electrocatalysis. <i>Nature Catalysis</i> , 2019 , 2, 304-313	36.5	420
220	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
219	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
218	Single Tungsten Atoms Supported on MOF-Derived N-Doped Carbon for Robust Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018 , 30, e1800396	24	302
217	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
216	Bismuth Single Atoms Resulting from Transformation of Metal-Organic Frameworks and Their Use as Electrocatalysts for CO Reduction. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16569-16573	16.4	267

215	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. <i>Nature Catalysis</i> , 2019 , 2, 495-503	36.5	258
214	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
213	Isolated Single-Atom Pd Sites in Intermetallic Nanostructures: High Catalytic Selectivity for Semihydrogenation of Alkynes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7294-7301	16.4	238
212	Tuning defects in oxides at room temperature by lithium reduction. <i>Nature Communications</i> , 2018 , 9, 1302	17.4	225
211	Single-atomic cobalt sites embedded in hierarchically ordered porous nitrogen-doped carbon as a superior bifunctional electrocatalyst. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12692-12697	11.5	222
210	Engineering unsymmetrically coordinated Cu-SN single atom sites with enhanced oxygen reduction activity. <i>Nature Communications</i> , 2020 , 11, 3049	17.4	210
209	Boosting Oxygen Reduction Catalysis with Fe _N 4 Sites Decorated Porous Carbons toward Fuel Cells. <i>ACS Catalysis</i> , 2019 , 9, 2158-2163	13.1	209
208	Single-atom Rh/N-doped carbon electrocatalyst for formic acid oxidation. <i>Nature Nanotechnology</i> , 2020 , 15, 390-397	28.7	208
207	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general host-guest strategy. <i>Nature Chemistry</i> , 2020 , 12, 764-772	17.6	207
206	In Situ Thermal Atomization To Convert Supported Nickel Nanoparticles into Surface-Bound Nickel Single-Atom Catalysts. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14095-14100	16.4	206
205	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
204	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
203	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
202	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
201	Solid-Diffusion Synthesis of Single-Atom Catalysts Directly from Bulk Metal for Efficient CO ₂ Reduction. <i>Joule</i> , 2019 , 3, 584-594	27.8	186
200	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
199	Design of ultrathin Pt-Mo-Ni nanowire catalysts for ethanol electrooxidation. <i>Science Advances</i> , 2017 , 3, e1603068	14.3	181
198	Atomic-Level Modulation of Electronic Density at Cobalt Single-Atom Sites Derived from Metal-Organic Frameworks: Enhanced Oxygen Reduction Performance. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3212-3221	16.4	180

197	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
196	Regulation of Coordination Number over Single Co Sites: Triggering the Efficient Electroreduction of CO ₂ . <i>Angewandte Chemie</i> , 2018 , 130, 1962-1966	3.6	176
195	Atomically Dispersed Copper-Platinum Dual Sites Alloyed with Palladium Nanorings Catalyze the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16047-16051	16.4	164
194	Carbon nitride supported Fe cluster catalysts with superior performance for alkene epoxidation. <i>Nature Communications</i> , 2018 , 9, 2353	17.4	162
193	Directly transforming copper (I) oxide bulk into isolated single-atom copper sites catalyst through gas-transport approach. <i>Nature Communications</i> , 2019 , 10, 3734	17.4	159
192	Atomically dispersed Au ¹ catalyst towards efficient electrochemical synthesis of ammonia. <i>Science Bulletin</i> , 2018 , 63, 1246-1253	10.6	158
191	Confined Pyrolysis within Metal-Organic Frameworks To Form Uniform Ru Clusters for Efficient Oxidation of Alcohols. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9795-9798	16.4	157
190	Regulating the coordination environment of Co single atoms for achieving efficient electrocatalytic activity in CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2019 , 240, 234-240	21.8	154
189	High-Concentration Single Atomic Pt Sites on Hollow Cu _x for Selective O ₂ Reduction to H ₂ O ₂ in Acid Solution. <i>Chem</i> , 2019 , 5, 2099-2110	16.2	152
188	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
187	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
186	Accelerating water dissociation kinetics by isolating cobalt atoms into ruthenium lattice. <i>Nature Communications</i> , 2018 , 9, 4958	17.4	147
185	Atomic interface effect of a single atom copper catalyst for enhanced oxygen reduction reactions. <i>Energy and Environmental Science</i> , 2019 , 12, 3508-3514	35.4	146
184	A general synthesis approach for amorphous noble metal nanosheets. <i>Nature Communications</i> , 2019 , 10, 4855	17.4	145
183	Efficient and Robust Hydrogen Evolution: Phosphorus Nitride Imide Nanotubes as Supports for Anchoring Single Ruthenium Sites. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9495-9500	16.4	140
182	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
181	Matching the kinetics of natural enzymes with a single-atom iron nanozyme. <i>Nature Catalysis</i> , 2021 , 4, 407-417	36.5	134
180	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

179	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
178	In Situ Phosphatizing of Triphenylphosphine Encapsulated within Metal-Organic Frameworks to Design Atomic Co-PN Interfacial Structure for Promoting Catalytic Performance. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8431-8439	16.4	123
177	Hierarchical Fe-doped NiO x nanotubes assembled from ultrathin nanosheets containing trivalent nickel for oxygen evolution reaction. <i>Nano Energy</i> , 2017 , 38, 167-174	17.1	122
176	A single-atom Fe-N catalytic site mimicking bifunctional antioxidative enzymes for oxidative stress cytoprotection. <i>Chemical Communications</i> , 2018 , 55, 159-162	5.8	120
175	Temperature-Controlled Selectivity of Hydrogenation and Hydrodeoxygenation in the Conversion of Biomass Molecule by the Ru/mpg-CN Catalyst. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11161-11164	16.4	120
174	Ordered Porous Nitrogen-Doped Carbon Matrix with Atomically Dispersed Cobalt Sites as an Efficient Catalyst for Dehydrogenation and Transfer Hydrogenation of N-Heterocycles. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11262-11266	16.4	119
173	Discovery of main group single SbN ₄ active sites for CO ₂ electroreduction to formate with high efficiency. <i>Energy and Environmental Science</i> , 2020 , 13, 2856-2863	35.4	113
172	Atomically Dispersed Ru on Ultrathin Pd Nanoribbons. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13850-13853	16.4	105
171	Design of a Single-Atom Indium -N Interface for Efficient Electroreduction of CO to Formate. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22465-22469	16.4	102
170	Engineering of Coordination Environment and Multiscale Structure in Single-Site Copper Catalyst for Superior Electrocatalytic Oxygen Reduction. <i>Nano Letters</i> , 2020 , 20, 6206-6214	11.5	99
169	Atomically Dispersed Ruthenium Species Inside Metal-Organic Frameworks: Combining the High Activity of Atomic Sites and the Molecular Sieving Effect of MOFs. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4271-4275	16.4	92
168	Mesoporous Nitrogen-Doped Carbon-Nanosphere-Supported Isolated Single-Atom Pd Catalyst for Highly Efficient Semihydrogenation of Acetylene. <i>Advanced Materials</i> , 2019 , 31, e1901024	24	84
167	Single-Site Au Catalyst for Silane Oxidation with Water. <i>Advanced Materials</i> , 2018 , 30, 1704720	24	84
166	Porphyrin-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
165	Isolated Ni Atoms Dispersed on Ru Nanosheets: High-Performance Electrocatalysts toward Hydrogen Oxidation Reaction. <i>Nano Letters</i> , 2020 , 20, 3442-3448	11.5	80
164	Catalytic degradation of recalcitrant pollutants by Fenton-like process using polyacrylonitrile-supported iron (II) phthalocyanine nanofibers: Intermediates and pathway. <i>Water Research</i> , 2016 , 93, 296-305	12.5	78
163	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
162	Gram-Scale Synthesis of High-Loading Single-Atomic-Site Fe Catalysts for Effective Epoxidation of Styrene. <i>Advanced Materials</i> , 2020 , 32, e2000896	24	78

161	Single-Atom Co-N Electrocatalyst Enabling Four-Electron Oxygen Reduction with Enhanced Hydrogen Peroxide Tolerance for Selective Sensing. <i>Journal of the American Chemical Society</i> , 2020 , 142, 16861-16867	16.4	77
160	MOF-Confined Sub-2 nm Atomically Ordered Intermetallic PdZn Nanoparticles as High-Performance Catalysts for Selective Hydrogenation of Acetylene. <i>Advanced Materials</i> , 2018 , 30, e1801878	24	77
159	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
158	Solvothermal synthesis of ternary Cu ₂ MoS ₄ nanosheets: structural characterization at the atomic level. <i>Small</i> , 2014 , 10, 4637-44	11	74
157	Hydrodeoxygenation of water-insoluble bio-oil to alkanes using a highly dispersed Pd-Mo catalyst. <i>Nature Communications</i> , 2017 , 8, 591	17.4	69
156	Rational Design of Single Molybdenum Atoms Anchored on N-Doped Carbon for Effective Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2017 , 129, 16302-16306	3.6	66
155	Two-Step Carbothermal Welding To Access Atomically Dispersed Pd on Three-Dimensional Zirconia Nanonet for Direct Indole Synthesis. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10590-10594	16.4	66
154	Rational Control of the Selectivity of a Ruthenium Catalyst for Hydrogenation of 4-Nitrostyrene by Strain Regulation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11971-11975	16.4	65
153	Atomically dispersed Fe atoms anchored on COF-derived N-doped carbon nanospheres as efficient multi-functional catalysts. <i>Chemical Science</i> , 2019 , 11, 786-790	9.4	64
152	Coordination structure dominated performance of single-atomic Pt catalyst for anti-Markovnikov hydroboration of alkenes. <i>Science China Materials</i> , 2020 , 63, 972-981	7.1	62
151	Revealing the Active Species for Aerobic Alcohol Oxidation by Using Uniform Supported Palladium Catalysts. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4642-4646	16.4	62
150	Isolating contiguous Pt atoms and forming Pt-Zn intermetallic nanoparticles to regulate selectivity in 4-nitrophenylacetylene hydrogenation. <i>Nature Communications</i> , 2019 , 10, 3787	17.4	60
149	Engineering a metal-organic framework derived Mn-N-C S atomic interface for highly efficient oxygen reduction reaction. <i>Chemical Science</i> , 2020 , 11, 5994-5999	9.4	59
148	Single-atom Ni-N provides a robust cellular NO sensor. <i>Nature Communications</i> , 2020 , 11, 3188	17.4	59
147	Single-atom Fe with Fe ₁ N ₃ structure showing superior performances for both hydrogenation and transfer hydrogenation of nitrobenzene. <i>Science China Materials</i> , 2021 , 64, 642-650	7.1	59
146	Efficient Plasmonic Au/CdSe Nanodumbbell for Photoelectrochemical Hydrogen Generation beyond Visible Region. <i>Advanced Energy Materials</i> , 2019 , 9, 1803889	21.8	56
145	Cactus-like NiCo ₂ S ₄ @NiFe LDH hollow spheres as an effective oxygen bifunctional electrocatalyst in alkaline solution. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119869	21.8	54
144	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

143	Regulating the Catalytic Performance of Single-Atomic-Site Ir Catalyst for Biomass Conversion by Metal-Support Interactions. <i>ACS Catalysis</i> , 2019 , 9, 5223-5230	13.1	52
142	Negative Pressure Pyrolysis Induced Highly Accessible Single Sites Dispersed on 3D Graphene Frameworks for Enhanced Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20465-20469	16.4	50
141	Self-floating graphitic carbon nitride/zinc phthalocyanine nanofibers for photocatalytic degradation of contaminants. <i>Journal of Hazardous Materials</i> , 2016 , 317, 17-26	12.8	49
140	Graphitic Carbon Nitride from Burial to Re-emergence on Polyethylene Terephthalate Nanofibers as an Easily Recycled Photocatalyst for Degrading Antibiotics under Solar Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25962-25970	9.5	48
139	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
138	Single-Atom Au ₁ Site for Acetylene Hydrochlorination Reaction. <i>ACS Catalysis</i> , 2020 , 10, 1865-1870	13.1	41
137	Silk-Derived 2D Porous Carbon Nanosheets with Atomically-Dispersed Fe-N-C Sites for Highly Efficient Oxygen Reaction Catalysts. <i>Small</i> , 2019 , 15, e1804966	11	40
136	Electrodeposition of polypyrrole on carbon nanotube-coated cotton fabrics for all-solid flexible supercapacitor electrodes. <i>RSC Advances</i> , 2016 , 6, 13359-13364	3.7	40
135	Dual-atom Pt heterogeneous catalyst with excellent catalytic performances for the selective hydrogenation and epoxidation. <i>Nature Communications</i> , 2021 , 12, 3181	17.4	40
134	Simultaneous oxidative and reductive reactions in one system by atomic design. <i>Nature Catalysis</i> , 2021 , 4, 134-143	36.5	40
133	Atomically Dispersed Copper-Platinum Dual Sites Alloyed with Palladium Nanorings Catalyze the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2017 , 129, 16263-16267	3.6	39
132	N-Bridged Co ₂ Ni: new bimetallic sites for promoting electrochemical CO ₂ reduction. <i>Energy and Environmental Science</i> , 2021 , 14, 3019-3028	35.4	38
131	The consortium of heterogeneous cobalt phthalocyanine catalyst and bicarbonate ion as a novel platform for contaminants elimination based on peroxymonosulfate activation. <i>Journal of Hazardous Materials</i> , 2016 , 301, 214-21	12.8	36
130	Room-Temperature Synthesis of Single Iron Site by Electrofiltration for Photoreduction of CO into Tunable Syngas. <i>ACS Nano</i> , 2020 , 14, 6164-6172	16.7	36
129	Key role of activated carbon fibers in enhanced decomposition of pollutants using heterogeneous cobalt/peroxymonosulfate system. <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 1257-1265	3.5	35
128	In-situ polymerization induced atomically dispersed manganese sites as cocatalyst for CO ₂ photoreduction into synthesis gas. <i>Nano Energy</i> , 2020 , 76, 105059	17.1	35
127	Mn ₂ N ₄ Oxygen Reduction Electrocatalyst: Operando Investigation of Active Sites and High Performance in Zinc-Air Battery. <i>Advanced Energy Materials</i> , 2021 , 11, 2002753	21.8	34
126	Cation/Anion Exchange Reactions toward the Syntheses of Upgraded Nanostructures: Principles and Applications. <i>Matter</i> , 2020 , 2, 554-586	12.7	33

125	Construction of MnO Artificial Leaf with Atomic Thickness as Highly Stable Battery Anodes. <i>Advanced Materials</i> , 2020 , 32, e1906582	24	32
124	Mesoporous S doped Fe-N-C materials as highly active oxygen reduction reaction catalyst. <i>Chemical Communications</i> , 2018 , 54, 12073-12076	5.8	32
123	Self-assembly of ultrathin Cu ₂ MoS ₄ nanobelts for highly efficient visible light-driven degradation of methyl orange. <i>Nanoscale</i> , 2015 , 7, 17998-8003	7.7	31
122	Bimetallic Ru-Co Clusters Derived from a Confined Alloying Process within Zeolite-Imidazolate Frameworks for Efficient NH ₃ Decomposition and Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39450-39455	9.5	30
121	Highly Selective Photoreduction of CO with Suppressing H ₂ Evolution by Plasmonic Au/CdSe-Cu ₂ O Hierarchical Nanostructures under Visible Light. <i>Small</i> , 2020 , 16, e2000426	11	30
120	In Situ Thermal Atomization To Convert Supported Nickel Nanoparticles into Surface-Bound Nickel Single-Atom Catalysts. <i>Angewandte Chemie</i> , 2018 , 130, 14291-14296	3.6	30
119	Visible-light responsive electrospun nanofibers based on polyacrylonitrile-dispersed graphitic carbon nitride. <i>RSC Advances</i> , 2015 , 5, 86505-86512	3.7	27
118	Single iron atoms coordinated to g-CN on hierarchical porous N-doped carbon polyhedra as a high-performance electrocatalyst for the oxygen reduction reaction. <i>Chemical Communications</i> , 2020 , 56, 798-801	5.8	27
117	Integrating single-cobalt-site and electric field of boron nitride in dechlorination electrocatalysts by bioinspired design. <i>Nature Communications</i> , 2021 , 12, 303	17.4	27
116	Oxidative desulfurization of dibenzothiophene with molecular oxygen catalyzed by carbon fiber-supported iron phthalocyanine. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2014 , 111, 535-547	1.6	26
115	Promoting electrocatalytic methanol oxidation of platinum nanoparticles by cerium modification. <i>Nano Energy</i> , 2020 , 73, 104784	17.1	26
114	2D MOF induced accessible and exclusive Co single sites for an efficient O-silylation of alcohols with silanes. <i>Chemical Communications</i> , 2019 , 55, 6563-6566	5.8	25
113	Sub-nm ruthenium cluster as an efficient and robust catalyst for decomposition and synthesis of ammonia: Break the size shackles. <i>Nano Research</i> , 2018 , 11, 4774-4785	10	25
112	Evolution of Hollow CuInS Nanododecahedrons via Kirkendall Effect Driven by Cation Exchange for Efficient Solar Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27170-27177	9.5	23
111	The coupling of hemin with persistent free radicals induces a nonradical mechanism for oxidation of pollutants. <i>Chemical Communications</i> , 2016 , 52, 9566-9	5.8	23
110	Au@Hg _x Cd _{1-x} Te core@shell nanorods by sequential aqueous cation exchange for near-infrared photodetectors. <i>Nano Energy</i> , 2019 , 57, 57-65	17.1	23
109	Electrochemical conversion of bulk platinum into platinum single-atom sites for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10755-10760	13	23
108	Ordered Porous Nitrogen-Doped Carbon Matrix with Atomically Dispersed Cobalt Sites as an Efficient Catalyst for Dehydrogenation and Transfer Hydrogenation of N-Heterocycles. <i>Angewandte Chemie</i> , 2018 , 130, 11432-11436	3.6	23

107	Atomic-Level Modulation of Electronic Density at Cobalt Single-Atom Sites Derived from Metal-Organic Frameworks: Enhanced Oxygen Reduction Performance. <i>Angewandte Chemie</i> , 2021 , 133, 3249-3258	3.6	22
106	Identification of Fenton-like active Cu sites by heteroatom modulation of electronic density.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	22
105	Efficient and Robust Hydrogen Evolution: Phosphorus Nitride Imide Nanotubes as Supports for Anchoring Single Ruthenium Sites. <i>Angewandte Chemie</i> , 2018 , 130, 9639-9644	3.6	21
104	Engineering the Atomic Interface with Single Platinum Atoms for Enhanced Photocatalytic Hydrogen Production. <i>Angewandte Chemie</i> , 2020 , 132, 1311-1317	3.6	21
103	Single copper sites dispersed on hierarchically porous carbon for improving oxygen reduction reaction towards zinc-air battery. <i>Nano Research</i> , 2021 , 14, 998-1003	10	21
102	Interfacial peroxidase-like catalytic activity of surface-immobilized cobalt phthalocyanine on multiwall carbon nanotubes. <i>RSC Advances</i> , 2015 , 5, 9374-9380	3.7	20
101	In Situ Implanting of Single Tungsten Sites into Defective UiO-66(Zr) by Solvent-Free Route for Efficient Oxidative Desulfurization at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20318-20324	16.4	19
100	Simultaneous diffusion of cation and anion to access N, S co-coordinated Bi-sites for enhanced CO ₂ electroreduction. <i>Nano Research</i> , 2021 , 14, 2790-2796	10	19
99	Raman scattering of single crystal Cu ₂ MoS ₄ nanosheet. <i>AIP Advances</i> , 2015 , 5, 037141	1.5	18
98	Semiconductor Nanocrystal Engineering by Applying Thiol- and Solvent-Coordinated Cation Exchange Kinetics. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4852-4857	16.4	18
97	Colored TiO ₂ composites embedded on fabrics as photocatalysts: Decontamination of formaldehyde and deactivation of bacteria in water and air. <i>Chemical Engineering Journal</i> , 2019 , 375, 121949	14.7	17
96	Cube-like Cu ₂ MoS ₄ photocatalysts for visible light-driven degradation of methyl orange. <i>AIP Advances</i> , 2015 , 5, 077130	1.5	17
95	Facile synthesis of CoNi nanoparticles embedded in nitrogen-carbon frameworks for highly efficient electrocatalytic oxygen evolution. <i>Chemical Communications</i> , 2017 , 53, 12177-12180	5.8	16
94	Free Channel Formation around Graphitic Carbon Nitride Embedded in Porous Polyethylene Terephthalate Nanofibers with Excellent Reusability for Eliminating Antibiotics under Solar Irradiation. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 11151-11160	3.9	16
93	Single-atom Sn-Zn pairs in CuO catalyst promote dimethyldichlorosilane synthesis. <i>National Science Review</i> , 2020 , 7, 600-608	10.8	16
92	Dynamic evolution of isolated RuBeP atomic interface sites for promoting the electrochemical hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22607-22612	13	16
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