

Dingsheng Wang

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333
papers

30,355
citations

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h-index

165
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367
ext. papers

40,905
ext. citations

12.6
avg, IF

7.89
L-index

#	Paper	IF	Citations
333	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
332	Core-Shell ZIF-8@ZIF-67-Derived CoP Nanoparticle-Embedded N-Doped Carbon Nanotube Hollow Polyhedron for Efficient Overall Water Splitting. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2610-2618	16.4	1073
331	Single-Atom Catalysts: Synthetic Strategies and Electrochemical Applications. <i>Joule</i> , 2018 , 2, 1242-1264	27.8	1046
330	Bimetallic nanocrystals: liquid-phase synthesis and catalytic applications. <i>Advanced Materials</i> , 2011 , 23, 1044-60	24	901
329	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
328	Green chemistry for nanoparticle synthesis. <i>Chemical Society Reviews</i> , 2015 , 44, 5778-92	58.5	625
327	Defect Effects on TiO Nanosheets: Stabilizing Single Atomic Site Au and Promoting Catalytic Properties. <i>Advanced Materials</i> , 2018 , 30, 1705369	24	474
326	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. <i>Nature Nanotechnology</i> , 2018 , 13, 856-861	28.7	471
325	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
324	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
323	Synthesis and catalytic properties of bimetallic nanomaterials with various architectures. <i>Nano Today</i> , 2012 , 7, 448-466	17.9	405
322	Chemical Synthesis of Single Atomic Site Catalysts. <i>Chemical Reviews</i> , 2020 , 120, 11900-11955	68.1	368
321	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
320	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
319	Metal organic frameworks derived single atom catalysts for electrocatalytic energy conversion. <i>Nano Research</i> , 2019 , 12, 2067-2080	10	320
318	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
317	Single Tungsten Atoms Supported on MOF-Derived N-Doped Carbon for Robust Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018 , 30, e1800396	24	302

316	Shape-dependent catalytic activity of silver nanoparticles for the oxidation of styrene. <i>Chemistry - an Asian Journal</i> , 2006 , 1, 888-93	4.5	302
315	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
314	Modulating the local coordination environment of single-atom catalysts for enhanced catalytic performance. <i>Nano Research</i> , 2020 , 13, 1842-1855	10	297
313	Syntheses of water-soluble octahedral, truncated octahedral, and cubic Pt-Ni nanocrystals and their structure-activity study in model hydrogenation reactions. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8975-81	16.4	295
312	Defect engineering in earth-abundant electrocatalysts for CO ₂ and N ₂ reduction. <i>Energy and Environmental Science</i> , 2019 , 12, 1730-1750	35.4	293
311	A versatile bottom-up assembly approach to colloidal spheres from nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6650-3	16.4	287
310	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
309	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
308	One-pot protocol for Au-based hybrid magnetic nanostructures via a noble-metal-induced reduction process. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6280-1	16.4	260
307	Electronic structure and d-band center control engineering over M-doped CoP (M = Ni, Mn, Fe) hollow polyhedron frames for boosting hydrogen production. <i>Nano Energy</i> , 2019 , 56, 411-419	17.1	252
306	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
305	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
304	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
303	Surface structure effects in nanocrystal MnO ₂ and Ag/MnO ₂ catalytic oxidation of CO. <i>Journal of Catalysis</i> , 2006 , 237, 426-430	7.3	221
302	Ag, Ag ₂ S, and Ag ₂ Se nanocrystals: synthesis, assembly, and construction of mesoporous structures. <i>Journal of the American Chemical Society</i> , 2008 , 130, 4016-22	16.4	216
301	Engineering unsymmetrically coordinated Cu-SN single atom sites with enhanced oxygen reduction activity. <i>Nature Communications</i> , 2020 , 11, 3049	17.4	210
300	Single-atom Rh/N-doped carbon electrocatalyst for formic acid oxidation. <i>Nature Nanotechnology</i> , 2020 , 15, 390-397	28.7	208
299	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

298	Sophisticated construction of Au islands on Pt-Ni: an ideal trimetallic nanoframe catalyst. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11594-7	16.4	206
297	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
296	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
295	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
294	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
293	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
292	Electronic Metal-Support Interaction of Single-Atom Catalysts and Applications in Electrocatalysis. <i>Advanced Materials</i> , 2020 , 32, e2003300	24	191
291	Single-crystalline octahedral Au-Ag nanoframes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18165-8	16.4	184
290	Design of ultrathin Pt-Mo-Ni nanowire catalysts for ethanol electrooxidation. <i>Science Advances</i> , 2017 , 3, e1603068	14.3	181
289	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
288	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
287	Regulating the coordination structure of single-atom Fe-NC catalytic sites for benzene oxidation. <i>Nature Communications</i> , 2019 , 10, 4290	17.4	173
286	Nanocrystalline intermetallics and alloys. <i>Nano Research</i> , 2010 , 3, 574-580	10	172
285	Magnetic tuning of upconversion luminescence in lanthanide-doped bifunctional nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4366-9	16.4	166
284	Carbon nitride supported Fe cluster catalysts with superior performance for alkene epoxidation. <i>Nature Communications</i> , 2018 , 9, 2353	17.4	162
283	Single-atom catalysis enables long-life, high-energy lithium-sulfur batteries. <i>Nano Research</i> , 2020 , 13, 1856-1866	10	161
282	A strategy for designing a concave Pt-Ni alloy through controllable chemical etching. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12524-8	16.4	161
281	Nanocrystals: Solution-based synthesis and applications as nanocatalysts. <i>Nano Research</i> , 2009 , 2, 30-46	10	159

280	Nanocrystals from solutions: catalysts. <i>Chemical Society Reviews</i> , 2014 , 43, 2112-24	58.5	158
279	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
278	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
277	Platinum-nickel frame within metal-organic framework fabricated in situ for hydrogen enrichment and molecular sieving. <i>Nature Communications</i> , 2015 , 6, 8248	17.4	152
276	Highly Active and Selective Catalysis of Bimetallic Rh ₃ Ni ₁ Nanoparticles in the Hydrogenation of Nitroarenes. <i>ACS Catalysis</i> , 2013 , 3, 608-612	13.1	151
275	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
274	Rare-Earth Single Erbium Atoms for Enhanced Photocatalytic CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10651-10657	16.4	148
273	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
272	Functionalization of Hollow Nanomaterials for Catalytic Applications: Nanoreactor Construction. <i>Advanced Materials</i> , 2019 , 31, e1800426	24	147
271	Single-Atom Materials: Small Structures Determine Macroproperties. <i>Small Structures</i> , 2021 , 2, 2000051	8.7	147
270	Accelerating water dissociation kinetics by isolating cobalt atoms into ruthenium lattice. <i>Nature Communications</i> , 2018 , 9, 4958	17.4	147
269	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
268	A photochromic composite with enhanced carrier separation for the photocatalytic activation of benzylic C-H bonds in toluene. <i>Nature Catalysis</i> , 2018 , 1, 704-710	36.5	144
267	Strain Engineering to Enhance the Electrooxidation Performance of Atomic-Layer Pt on Intermetallic PtGa. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2773-2776	16.4	141
266	Photoinduction of Cu Single Atoms Decorated on UiO-66-NH for Enhanced Photocatalytic Reduction of CO to Liquid Fuels. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19339-19345	16.4	138
265	Quantitative Study of Charge Carrier Dynamics in Well-Defined WO Nanowires and Nanosheets: Insight into the Crystal Facet Effect in Photocatalysis. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9078-9082	16.4	137
264	Highly branched PtNi nanocrystals enclosed by stepped surface for methanol oxidation. <i>Chemical Science</i> , 2012 , 3, 1925	9.4	136
263	NiO nanorings and their unexpected catalytic property for CO oxidation. <i>Nanotechnology</i> , 2006 , 17, 979-83	8.1	136

262	Designing Atomic Active Centers for Hydrogen Evolution Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20794-20812	16.4	136
261	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
260	Single-atom site catalysts for environmental catalysis. <i>Nano Research</i> , 2020 , 13, 3165-3182	10	134
259	Matching the kinetics of natural enzymes with a single-atom iron nanozyme. <i>Nature Catalysis</i> , 2021 , 4, 407-417	36.5	134
258	Synergistically Interactive Pyridinic-N-MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8982-8990	16.4	134
257	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
256	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
255	High performance electrocatalyst: Pt-Cu hollow nanocrystals. <i>Chemical Communications</i> , 2011 , 47, 8094-8098	6.8	123
254	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
253	Design concept for electrocatalysts. <i>Nano Research</i> , 1	10	121
252	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
251	Three-dimensional open nano-netcage electrocatalysts for efficient pH-universal overall water splitting. <i>Nature Communications</i> , 2019 , 10, 4875	17.4	119
250	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
249	General synthesis of I-III-VI ₂ ternary semiconductor nanocrystals. <i>Chemical Communications</i> , 2008 , 2556-2558	3.8	118
248	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
247	Ultralong Single-Crystalline Ag ₂ S Nanowires: Promising Candidates for Photoswitches and Room-Temperature Oxygen Sensors. <i>Advanced Materials</i> , 2008 , 20, 2628-2632	24	109
246	General preparation for Pt-based alloy nanoporous nanoparticles as potential nanocatalysts. <i>Scientific Reports</i> , 2011 , 1, 37	4.9	106
245	Intermetallic Ni _x My (M = Ga and Sn) Nanocrystals: A Non-precious Metal Catalyst for Semi-Hydrogenation of Alkynes. <i>Advanced Materials</i> , 2016 , 28, 4747-54	24	104

244	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
243	Pt-M (M = Cu, Co, Ni, Fe) nanocrystals: from small nanoparticles to wormlike nanowires by oriented attachment. <i>Chemistry - A European Journal</i> , 2013 , 19, 233-9	4.8	100
242	Monodispersed Pd-Ni nanoparticles: composition control synthesis and catalytic properties in the Miyaura-Suzuki reaction. <i>Inorganic Chemistry</i> , 2011 , 50, 2046-8	5.1	99
241	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
240	Cobalt single atom site catalysts with ultrahigh metal loading for enhanced aerobic oxidation of ethylbenzene. <i>Nano Research</i> , 2021 , 14, 2418	10	99
239	Room Temperature Activation of Oxygen by Monodispersed Metal Nanoparticles: Oxidative Dehydrogenative Coupling of Anilines for Azobenzene Syntheses. <i>ACS Catalysis</i> , 2013 , 3, 478-486	13.1	98
238	Silver Single-Atom Catalyst for Efficient Electrochemical CO Reduction Synthesized from Thermal Transformation and Surface Reconstruction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6170-6176	16.4	98
237	Mesoporous multicomponent nanocomposite colloidal spheres: ideal high-temperature stable model catalysts. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3725-9	16.4	93
236	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
235	Pt-Ni nanodendrites with high hydrogenation activity. <i>Chemical Communications</i> , 2013 , 49, 2903-5	5.8	91
234	Defect-dominated shape recovery of nanocrystals: a new strategy for trimetallic catalysts. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12220-3	16.4	88
233	In situ embedding Co ₉ S ₈ into nitrogen and sulfur codoped hollow porous carbon as a bifunctional electrocatalyst for oxygen reduction and hydrogen evolution reactions. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 186-193	21.8	87
232	Atomic-scale engineering of chemical-vapor-deposition-grown 2D transition metal dichalcogenides for electrocatalysis. <i>Energy and Environmental Science</i> , 2020 , 13, 1593-1616	35.4	86
231	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
230	Single-Site Au Catalyst for Silane Oxidation with Water. <i>Advanced Materials</i> , 2018 , 30, 1704720	24	84
229	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
228	Hydroformylation of alkenes over rhodium supported on the metal-organic framework ZIF-8. <i>Nano Research</i> , 2014 , 7, 1364-1369	10	83
227	Regulating the coordination structure of metal single atoms for efficient electrocatalytic CO ₂ reduction. <i>Energy and Environmental Science</i> , 2020 , 13, 4609-4624	35.4	82

226	An Adjacent Atomic Platinum Site Enables Single-Atom Iron with High Oxygen Reduction Reaction Performance. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19262-19271	16.4	81
225	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
224	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
223	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
222	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
221	An efficient multifunctional hybrid electrocatalyst: NiP nanoparticles on MOF-derived Co,N-doped porous carbon polyhedrons for oxygen reduction and water splitting. <i>Chemical Communications</i> , 2018 , 54, 12101-12104	5.8	77
220	Understanding of the major reactions in solution synthesis of functional nanomaterials. <i>Science China Materials</i> , 2016 , 59, 938-996	7.1	75
219	Theory-oriented screening and discovery of advanced energy transformation materials in electrocatalysis 2021 , 100013-100013		75
218	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
217	Synthetic strategies of supported atomic clusters for heterogeneous catalysis. <i>Nature Communications</i> , 2020 , 11, 5884	17.4	74
216	Kinetically Controlling Surface Structure to Construct Defect-Rich Intermetallic Nanocrystals: Effective and Stable Catalysts. <i>Advanced Materials</i> , 2016 , 28, 2540-6	24	72
215	A MnO ₂ -based catalyst with H ₂ O resistance for NH ₃ -SCR: Study of catalytic activity and reactants-H ₂ O competitive adsorption. <i>Applied Catalysis B: Environmental</i> , 2020 , 270, 118860	21.8	67
214	Ultrathin Au-Ag bimetallic nanowires with Coulomb blockade effects. <i>Chemical Communications</i> , 2011 , 47, 5160-2	5.8	67
213	Shape control of CoO and LiCoO ₂ nanocrystals. <i>Nano Research</i> , 2010 , 3, 1-7	10	67
212	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
211	Bimetallic Pd-Cu nanocrystals and their tunable catalytic properties. <i>Chemical Communications</i> , 2014 , 50, 4588-91	5.8	66
210	Bamboo-Like Nitrogen-Doped Carbon Nanotubes with Co Nanoparticles Encapsulated at the Tips: Uniform and Large-Scale Synthesis and High-Performance Electrocatalysts for Oxygen Reduction. <i>Chemistry - A European Journal</i> , 2015 , 21, 14022-9	4.8	66
209	Bi ₂ S ₃ nanotubes: Facile synthesis and growth mechanism. <i>Nano Research</i> , 2009 , 2, 130-134	10	66

208	Non-carbon-supported single-atom site catalysts for electrocatalysis. <i>Energy and Environmental Science</i> , 2021 , 14, 2809-2858	35.4	66
207	Strain Regulation to Optimize the Acidic Water Oxidation Performance of Atomic-Layer IrO. <i>Advanced Materials</i> , 2019 , 31, e1903616	24	65
206	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
205	One-pot protocol for bimetallic Pt/Cu hexapod concave nanocrystals with enhanced electrocatalytic activity. <i>Scientific Reports</i> , 2013 , 3, 1404	4.9	64
204	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
203	The Electronic Metal-Support Interaction Directing the Design of Single Atomic Site Catalysts: Achieving High Efficiency Towards Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19085-19091	16.4	64
202	Ir-Cu nanoframes: one-pot synthesis and efficient electrocatalysts for oxygen evolution reaction. <i>Chemical Communications</i> , 2016 , 52, 3793-6	5.8	63
201	Convenient fabrication of BiOBr ultrathin nanosheets with rich oxygen vacancies for photocatalytic selective oxidation of secondary amines. <i>Nano Research</i> , 2019 , 12, 1625-1630	10	62
200	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
199	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
198	Carbon nanotube-encapsulated cobalt for oxygen reduction: integration of space confinement and N-doping. <i>Chemical Communications</i> , 2019 , 55, 14801-14804	5.8	62
197	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
196	Rational Design of Single-Atom Site Electrocatalysts: From Theoretical Understandings to Practical Applications. <i>Advanced Materials</i> , 2021 , 33, e2008151	24	60
195	Phosphorus Induced Electron Localization of Single Iron Sites for Boosted CO Electroreduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23614-23618	16.4	60
194	Pd-Cu(2)O and Ag-Cu(2)O hybrid concave nanomaterials for an effective synergistic catalyst. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11049-53	16.4	59
193	Single-atom Fe with Fe1N3 structure showing superior performances for both hydrogenation and transfer hydrogenation of nitrobenzene. <i>Science China Materials</i> , 2021 , 64, 642-650	7.1	59
192	Effective octadecylamine system for nanocrystal synthesis. <i>Inorganic Chemistry</i> , 2011 , 50, 5196-202	5.1	57
191	Hydrothermal synthesis of orthorhombic LiMnO2 nano-particles and LiMnO2 nanorods and comparison of their electrochemical performances. <i>Nano Research</i> , 2009 , 2, 923-930	10	55

190	A Supported Pd Dual-Atom Site Catalyst for Efficient Electrochemical CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13388-13393	16.4	54
189	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
188	Ag/CeO ₂ nanospheres: Efficient catalysts for formaldehyde oxidation. <i>Applied Catalysis B: Environmental</i> , 2014 , 148-149, 36-43	21.8	53
187	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
186	Preparation of hexagonal ultrathin WO ₃ nano-ribbons and their electrochemical performance as an anode material in lithium ion batteries. <i>Nano Research</i> , 2016 , 9, 435-441	10	51
185	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
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