

Dingsheng Wang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7216682/dingsheng-wang-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

333
papers

30,355
citations

96
h-index

165
g-index

367
ext. papers

40,905
ext. citations

12.6
avg, IF

7.89
L-index

#	Paper	IF	Citations
333	Engineering Dual Single-Atom Sites on 2D Ultrathin N-doped Carbon Nanosheets Attaining Ultra-Low Temperature Zn-Air Battery.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	31
332	Strain Relaxation in Metal Alloy Catalysts Steers the Product Selectivity of Electrocatalytic CO Reduction.. <i>ACS Nano</i> , 2022 ,	16.7	11
331	Engineering the Local Atomic Environments of Indium Single-Atom Catalysts for Efficient Electrochemical Production of Hydrogen Peroxide.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	8
330	Regulating the tip effect on single-atom and cluster catalysts: forming reversible oxygen species with high efficiency in chlorine evolution reaction.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	9
329	MOF Encapsulating N-Heterocyclic Carbene-Ligated Copper Single-Atom Site Catalyst towards Efficient Methane Electrosynthesis. <i>Angewandte Chemie</i> , 2022 , 134, e202114450	3.6	
328	P-d orbital hybridization induced by monodispersed Ga site on Pt3Mn nanocatalyst boosts ethanol electrooxidation.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	15
327	Atom-level interfacial synergy of single-atom site catalysts for electrocatalysis. <i>Journal of Energy Chemistry</i> , 2022 , 65, 103-115	12	10
326	Al Dopants Induced Mg Vacancies Stabilizing Single-Atom Cu Catalyst for Efficient Free-Radical Hydrophosphinylation of Alkenes.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	4
325	Low-dimensional material supported single-atom catalysts for electrochemical CO ₂ reduction. <i>SmartMat</i> , 2022 , 3, 84-110	22.8	4
324	Single-Atom Fe Catalysts for Fenton-Like Reactions: Roles of Different N Species.. <i>Advanced Materials</i> , 2022 , e2110653	24	18
323	Complementary Operando Spectroscopy identification of in-situ generated metastable charge-asymmetry Cu-CuN clusters for CO reduction to ethanol.. <i>Nature Communications</i> , 2022 , 13, 1322 ^{17.4}	17.4	9
322	Synthetic strategies for MOF-based single-atom catalysts for photo- and electro-catalytic CO reduction.. <i>IScience</i> , 2022 , 25, 104177	6.1	5
321	2D materials modulating layered double hydroxides for electrocatalytic water splitting. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1380-1398	11.3	2
320	Boosting Electrochemical Styrene Transformation via Tandem Water Oxidation over Single-Atom Cr /CoSe Catalyst.. <i>Advanced Materials</i> , 2022 , e2200302	24	2
319	Reversely trapping atoms from a perovskite surface for high-performance and durable fuel cell cathodes. <i>Nature Catalysis</i> , 2022 , 5, 300-310	36.5	14
318	Thermal Atomization of Platinum Nanoparticles into Single Atoms: An Effective Strategy for Engineering High-Performance Nanozymes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18643-18651	16.4	26
317	Isolated Single-Atom Ni-N Catalytic Site in Hollow Porous Carbon Capsules for Efficient Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2021 , 21, 9691-9698	11.5	27

316	Atomic-level insights into the steric hindrance effect of single-atom Pd catalyst to boost the synthesis of dimethyl carbonate. <i>Applied Catalysis B: Environmental</i> , 2021 , 120922	21.8	2
315	MOF Encapsulating N-Heterocyclic Carbene-Ligated Copper Single-Atom Site Catalyst towards Efficient Methane Electrosynthesis. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	18
314	Striding the threshold of an atom era of organic synthesis by single-atom catalysis. <i>Chem</i> , 2021 ,	16.2	16
313	Theory-oriented screening and discovery of advanced energy transformation materials in electrocatalysis 2021 , 100013-100013		75
312	Decreasing the coordinated N atoms in a single-atom Cu catalyst to achieve selective transfer hydrogenation of alkynes. <i>Chemical Science</i> , 2021 , 12, 14599-14605	9.4	4
311	Bringing catalytic order out of chaos with nitrogen-doped ordered mesoporous carbon. <i>Matter</i> , 2021 , 4, 3161-3194	12.7	26
310	Synergistic Modulation of the Separation of Photo-Generated Carriers via Engineering of Dual Atomic Sites for Promoting Photocatalytic Performance. <i>Advanced Materials</i> , 2021 , e2105904	24	26
309	Atomic Evolution of Metal-Organic Frameworks into Co ^{III} Coupling Vacancies by Cooperative Cascade Protection Strategy for Promoting Triiodide Reduction. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6147-6156	3.8	5
308	A fundamental comprehension and recent progress in advanced Pt-based ORR nanocatalysts. <i>SmartMat</i> , 2021 , 2, 56-75	22.8	43
307	High-Loading Single-Atomic-Site Silver Catalysts with an Ag ₁ Co ₂ N ₁ Structure Showing Superior Performance for Epoxidation of Styrene. <i>ACS Catalysis</i> , 2021 , 11, 4946-4954	13.1	13
306	Stable, Efficient, Copper Coordination Polymer-Derived Heterostructured Catalyst for Oxygen Evolution under pH-Universal Conditions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 25461-25471	9.5	0
305	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
304	Transforming cobalt hydroxide nanowires into single atom site catalysts. <i>Nano Energy</i> , 2021 , 83, 105799	17.1	8
303	A Supported Pd ₂ Dual-Atom Site Catalyst for Efficient Electrochemical CO ₂ Reduction. <i>Angewandte Chemie</i> , 2021 , 133, 13500-13505	3.6	3
302	Single-atom site catalysts supported on two-dimensional materials for energy applications. <i>Chinese Chemical Letters</i> , 2021 , 32, 3771-3771	8.1	5
301	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
300	Matching the kinetics of natural enzymes with a single-atom iron nanozyme. <i>Nature Catalysis</i> , 2021 , 4, 407-417	36.5	134
299	A heterogeneous iridium single-atom-site catalyst for highly regioselective carbenoid O-H bond insertion. <i>Nature Catalysis</i> , 2021 , 4, 523-531	36.5	28

298	Machine learning: The trends of developing high-efficiency single-atom materials. <i>Chem Catalysis</i> , 2021 , 1, 24-26		2
297	Atomically Dispersed Pt-NC Sites Enabling Efficient and Selective Electrocatalytic C-C Bond Cleavage in Lignin Models under Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9429-9439	16.4	43
296	Low-Temperature Synthesis of Single Palladium Atoms Supported on Defective Hexagonal Boron Nitride Nanosheet for Chemoselective Hydrogenation of Cinnamaldehyde. <i>ACS Nano</i> , 2021 , 15, 10175-10184	16.7	22
295	Electronic structure regulations of single-atom site catalysts and their effects on the electrocatalytic performances. <i>Applied Physics Reviews</i> , 2021 , 8, 021321	17.3	9
294	Fabricating polyoxometalates-stabilized single-atom site catalysts in confined space with enhanced activity for alkynes diboration. <i>Nature Communications</i> , 2021 , 12, 4205	17.4	21
293	The Electronic Metal-Support Interaction Directing the Design of Single Atomic Site Catalysts: Achieving High Efficiency Towards Hydrogen Evolution. <i>Angewandte Chemie</i> , 2021 , 133, 19233-19239	3.6	16
292	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
291	Enhanced luminescence through interface energy transfer in hierarchical heterogeneous nanocomposites and application in white LEDs. <i>Journal of Colloid and Interface Science</i> , 2021 , 583, 204-213	8.3	1
290	Single-Atom Materials: Small Structures Determine Macroproperties. <i>Small Structures</i> , 2021 , 2, 2000051	8.7	147
289	Atomically dispersed NiRu interface sites for high-efficiency pH-universal electrocatalysis of hydrogen evolution. <i>Nano Energy</i> , 2021 , 80, 105467	17.1	44
288	Silver Single-Atom Catalyst for Efficient Electrochemical CO Reduction Synthesized from Thermal Transformation and Surface Reconstruction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6170-6178	16.4	98
287	Porous Fe ₂ O ₃ nanoparticle decorated with atomically dispersed platinum: Study on atomic site structural change and gas sensor activity evolution. <i>Nano Research</i> , 2021 , 14, 1435-1442	10	17
286	How to select effective electrocatalysts: Nano or single atom?. <i>Nano Select</i> , 2021 , 2, 492-511	3.1	42
285	Silver Single-Atom Catalyst for Efficient Electrochemical CO ₂ Reduction Synthesized from Thermal Transformation and Surface Reconstruction. <i>Angewandte Chemie</i> , 2021 , 133, 6235-6241	3.6	10
284	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
283	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
282	Surface-structure tailoring of ultrafine PtCu nanowires for enhanced electrooxidation of alcohols. <i>Science China Materials</i> , 2021 , 64, 601-610	7.1	7
281	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

280	Cobalt single atom site catalysts with ultrahigh metal loading for enhanced aerobic oxidation of ethylbenzene. <i>Nano Research</i> , 2021 , 14, 2418	10	99
279	One-step synthesis of single-site vanadium substitution in 1T-WS monolayers for enhanced hydrogen evolution catalysis. <i>Nature Communications</i> , 2021 , 12, 709	17.4	42
278	A general strategy to prepare atomically dispersed biomimetic catalysts based on host-guest chemistry. <i>Chemical Communications</i> , 2021 , 57, 1895-1898	5.8	1
277	Single-Atom Materials: Small Structures Determine Macroproperties. <i>Small Structures</i> , 2021 , 2, 2170006	8.7	4
276	Notched-Polyoxometalate Strategy to Fabricate Atomically Dispersed Ru Catalysts for Biomass Conversion. <i>ACS Catalysis</i> , 2021 , 11, 2669-2675	13.1	13
275	Construction of Dual-Active-Site Copper Catalyst Containing both Cu ²⁺ N and Cu ⁺ N Sites. <i>Small</i> , 2021 , 17, e2006834	11	14
274	Pd single-atom monolithic catalyst: Functional 3D structure and unique chemical selectivity in hydrogenation reaction. <i>Science China Materials</i> , 2021 , 64, 1919-1929	7.1	35
273	Oxygen Reduction Reaction: Mn ²⁺ N ₄ Oxygen Reduction Electrocatalyst: Operando Investigation of Active Sites and High Performance in Zinc-Air Battery (Adv. Energy Mater. 6/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170025	21.8	
272	An Adjacent Atomic Platinum Site Enables Single-Atom Iron with High Oxygen Reduction Reaction Performance. <i>Angewandte Chemie</i> , 2021 , 133, 19411-19420	3.6	11
271	Rational Design of Single-Atom Site Electrocatalysts: From Theoretical Understandings to Practical Applications. <i>Advanced Materials</i> , 2021 , 33, e2008151	24	60
270	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
269	Anion-exchange-mediated internal electric field for boosting photogenerated carrier separation and utilization. <i>Nature Communications</i> , 2021 , 12, 4952	17.4	12
268	Synthesis, Structures of 2D Coordination Layers Metal-Organic Frameworks with Highly Selective CO ₂ Uptake. <i>Chinese Journal of Chemistry</i> , 2021 , 39, 2789-2794	4.9	0
267	Tunable Selectivity for Electrochemical CO ₂ Reduction by Bimetallic Cu ²⁺ N Catalysts: Elucidating the Roles of Cu and Sn. <i>ACS Catalysis</i> , 2021 , 11, 11103-11108	13.1	23
266	Polyoxometalate-Based Metal-Organic Framework as Molecular Sieve for Highly Selective Semi-Hydrogenation of Acetylene on Isolated Single Pd Atom Sites. <i>Angewandte Chemie</i> , 2021 , 133, 22696-22702	3.6	12
265	Lewis Acid Site-Promoted Single-Atomic Cu Catalyzes Electrochemical CO Methanation. <i>Nano Letters</i> , 2021 , 21, 7325-7331	11.5	38
264	Polyoxometalate-Based Metal-Organic Framework as Molecular Sieve for Highly Selective Semi-Hydrogenation of Acetylene on Isolated Single Pd Atom Sites. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22522-22528	16.4	27
263	Construction of Pd-Zn dual sites to enhance the performance for ethanol electro-oxidation reaction. <i>Nature Communications</i> , 2021 , 12, 5273	17.4	20

262	Creating High Regioselectivity by Electronic Metal-Support Interaction of a Single-Atomic-Site Catalyst. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15453-15461	16.4	23
261	Phosphorus Induced Electron Localization of Single Iron Sites for Boosted CO ₂ Electroreduction Reaction. <i>Angewandte Chemie</i> , 2021 , 133, 23806	3.6	11
260	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
259	Electronics and coordination engineering of atomic cobalt trapped by oxygen-driven defects for efficient cathode in solar cells. <i>Nano Energy</i> , 2021 , 89, 106365	17.1	9
258	Carbon-Supported Single-Atom Catalysts for Formic Acid Oxidation and Oxygen Reduction Reactions. <i>Small</i> , 2021 , 17, e2004500	11	19
257	Atomically dispersed nonmagnetic electron traps improve oxygen reduction activity of perovskite oxides. <i>Energy and Environmental Science</i> , 2021 , 14, 1016-1028	35.4	28
256	Non-carbon-supported single-atom site catalysts for electrocatalysis. <i>Energy and Environmental Science</i> , 2021 , 14, 2809-2858	35.4	66
255	The atomic-level regulation of single-atom site catalysts for the electrochemical CO reduction reaction. <i>Chemical Science</i> , 2021 , 12, 4201-4215	9.4	29
254	Tandem catalyzing the hydrodeoxygenation of 5-hydroxymethylfurfural over a NiFe intermetallic supported Pt single-atom site catalyst. <i>Chemical Science</i> , 2021 , 12, 4139-4146	9.4	11
253	Ru ₁ Co _n Single-Atom Alloy for Enhancing Fischer-Tropsch Synthesis. <i>ACS Catalysis</i> , 2021 , 11, 1886-1896	13.1	16
252	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
251	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
250	Surface Hexagonal PtSn Intermetallic on Pt Nanoparticles for Selective Propane Dehydrogenation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25903-25909	9.5	23
249	Engineering of Electronic States on Co O Ultrathin Nanosheets by Cation Substitution and Anion Vacancies for Oxygen Evolution Reaction. <i>Small</i> , 2020 , 16, e2001571	11	49
248	Challenges and opportunities for manganese oxides in low-temperature selective catalytic reduction of NO _x with NH ₃ : H ₂ O resistance ability. <i>Journal of Solid State Chemistry</i> , 2020 , 289, 121464	3.3	20
247	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
246	Single atomic site catalysts: synthesis, characterization, and applications. <i>Chemical Communications</i> , 2020 , 56, 7687-7697	5.8	26
245	Engineering unsymmetrically coordinated Cu-SN single atom sites with enhanced oxygen reduction activity. <i>Nature Communications</i> , 2020 , 11, 3049	17.4	210

244	Atomic Thickness Catalysts: Synthesis and Applications. <i>Small Methods</i> , 2020 , 4, 2000248	12.8	21
243	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
242	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
241	Rare-Earth Single Erbium Atoms for Enhanced Photocatalytic CO ₂ Reduction. <i>Angewandte Chemie</i> , 2020 , 132, 10738-10744	3.6	31
240	Rare-Earth Single Erbium Atoms for Enhanced Photocatalytic CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10651-10657	16.4	148
239	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
238	Facet engineering in metal organic frameworks to improve their electrochemical activity for water oxidation. <i>Chemical Communications</i> , 2020 , 56, 4316-4319	5.8	14
237	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
236	Single-atom Rh/N-doped carbon electrocatalyst for formic acid oxidation. <i>Nature Nanotechnology</i> , 2020 , 15, 390-397	28.7	208
235	Chemical Synthesis of Single Atomic Site Catalysts. <i>Chemical Reviews</i> , 2020 , 120, 11900-11955	68.1	368
234	Modulating the local coordination environment of single-atom catalysts for enhanced catalytic performance. <i>Nano Research</i> , 2020 , 13, 1842-1855	10	297
233	Single atom alloy: An emerging atomic site material for catalytic applications. <i>Nano Today</i> , 2020 , 34, 100917	17	44
232	MOF derived high-density atomic platinum heterogeneous catalyst for C-H bond activation. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1158-1163	7.8	4
231	Single-Atom Au ₁ Site for Acetylene Hydrochlorination Reaction. <i>ACS Catalysis</i> , 2020 , 10, 1865-1870	13.1	41
230	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
229	Design aktiver atomarer Zentren für HER-Elektrokatalysatoren. <i>Angewandte Chemie</i> , 2020 , 132, 20978-20988	9	9
228	Single-atom catalysis enables long-life, high-energy lithium-sulfur batteries. <i>Nano Research</i> , 2020 , 13, 1856-1866	10	161
227	Adsorption Site Regulation to Guide Atomic Design of Ni-Ga Catalysts for Acetylene Semi-Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11647-11652	16.4	40

226	Enhanced Visible-Light Photoactivities of Perovskite-Type LaFeO ₃ Nanocrystals by Simultaneously Doping Er ³⁺ and Coupling MgO for CO ₂ Reduction. <i>ChemCatChem</i> , 2020 , 12, 623-630	5.2	7
225	Synergistically Interactive Pyridinic-N/MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. <i>Angewandte Chemie</i> , 2020 , 132, 9067-9075	3.6	24
224	Designing Atomic Active Centers for Hydrogen Evolution Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20794-20812	16.4	136
223	Co-MOF as an electron donor for promoting visible-light photoactivities of g-C ₃ N ₄ nanosheets for CO ₂ reduction. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 514-523	11.3	47
222	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
221	Identifying the Types and Characterization of the Active Sites on M-X-C Single-Atom Catalysts. <i>ChemPhysChem</i> , 2020 , 21, 2486-2496	3.2	6
220	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
219	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
218	Discovery of main group single Sb/Ni active sites for CO ₂ electroreduction to formate with high efficiency. <i>Energy and Environmental Science</i> , 2020 , 13, 2856-2863	35.4	113
217	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
216	Synthetic strategies of supported atomic clusters for heterogeneous catalysis. <i>Nature Communications</i> , 2020 , 11, 5884	17.4	74
215	A general bottom-up synthesis of CuO-based trimetallic oxide mesocrystal superstructures for efficient catalytic production of trichlorosilane. <i>Nano Research</i> , 2020 , 13, 2819-2827	10	10
214	Downstream Processing Strategies for Lignin-First Biorefinery. <i>ChemSusChem</i> , 2020 , 13, 5199-5212	8.3	25
213	Single-atom site catalysts for environmental catalysis. <i>Nano Research</i> , 2020 , 13, 3165-3182	10	134
212	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
211	Electronic Metal-Support Interaction of Single-Atom Catalysts and Applications in Electrocatalysis. <i>Advanced Materials</i> , 2020 , 32, e2003300	24	191
210	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
209	Design of a Single-Atom Indium-N Interface for Efficient Electroreduction of CO ₂ to Formate. <i>Angewandte Chemie</i> , 2020 , 132, 22651-22655	3.6	12

208	Interface Engineering of Partially Phosphidated Co@Co-P@NPCNTs for Highly Enhanced Electrochemical Overall Water Splitting. <i>Small</i> , 2020 , 16, e2002124	11	29
207	The synthetic strategies for single atomic site catalysts based on metal-organic frameworks. <i>Nanoscale</i> , 2020 , 12, 20580-20589	7.7	5
206	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
205	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
204	Engineering the Atomic Interface with Single Platinum Atoms for Enhanced Photocatalytic Hydrogen Production. <i>Angewandte Chemie</i> , 2020 , 132, 1311-1317	3.6	21
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	Adsorption Site Regulation to Guide Atomic Design of Ni ₂ C Catalysts for Acetylene Semi-Hydrogenation. <i>Angewandte Chemie</i> , 2020 , 132, 11744-11749	3.6	11
201	Promoting electrocatalytic methanol oxidation of platinum nanoparticles by cerium modification. <i>Nano Energy</i> , 2020 , 73, 104784	17.1	26
200	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
199	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
198	Isolated Iron Single-Atomic Site-Catalyzed Chemoselective Transfer Hydrogenation of Nitroarenes to Arylamines. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33819-33824	9.5	42
197	Regulating the coordination structure of single-atom Fe-NC catalytic sites for benzene oxidation. <i>Nature Communications</i> , 2019 , 10, 4290	17.4	173
196	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
195	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
194	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
193	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
192	Modulating the photoelectrons of g-C ₃ N ₄ via coupling MgTi ₂ O ₅ as appropriate platform for visible-light-driven photocatalytic solar energy conversion. <i>Nano Research</i> , 2019 , 12, 1931-1936	10	25
191	High-Concentration Single Atomic Pt Sites on Hollow Cu _x S for Selective O ₂ Reduction to H ₂ O ₂ in Acid Solution. <i>Chem</i> , 2019 , 5, 2099-2110	16.2	152

190	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
189	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
188	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
187	Structure regulation of noble-metal-based nanomaterials at an atomic level. <i>Nano Today</i> , 2019 , 26, 164-175	17.9	24
186	Metal organic frameworks derived single atom catalysts for electrocatalytic energy conversion. <i>Nano Research</i> , 2019 , 12, 2067-2080	10	320
185	Single-atomic-site cobalt stabilized on nitrogen and phosphorus co-doped carbon for selective oxidation of primary alcohols. <i>Nanoscale Horizons</i> , 2019 , 4, 902-906	10.8	16
184	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
183	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
182	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</i> , 2019 , 131, 4315-4319	3.6	12
181	Luminescent material with functionalized graphitic carbon nitride as a photovoltaic booster in DSSCs: Enhanced charge separation and transfer. <i>Journal of Materials Research</i> , 2019 , 34, 616-625	2.5	4
180	Constructing radially oriented macroporous spheres with central cavities as ultrastable lithium-ion battery anodes. <i>Energy Storage Materials</i> , 2019 , 17, 242-252	19.4	13
179	Functionalization of Hollow Nanomaterials for Catalytic Applications: Nanoreactor Construction. <i>Advanced Materials</i> , 2019 , 31, e1800426	24	147
178	Metal-organic frameworks-derived nitrogen-doped carbon supported nanostructured PtNi catalyst for enhanced hydrosilylation of 1-octene. <i>Nano Research</i> , 2019 , 12, 2584-2588	10	18
177	Strain Regulation to Optimize the Acidic Water Oxidation Performance of Atomic-Layer IrO ₂ . <i>Advanced Materials</i> , 2019 , 31, e1903616	24	65
176	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
175	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
174	Three-dimensional open nano-netcage electrocatalysts for efficient pH-universal overall water splitting. <i>Nature Communications</i> , 2019 , 10, 4875	17.4	119
173	PdAg bimetallic electrocatalyst for highly selective reduction of CO ₂ with low COOH* formation energy and facile CO desorption. <i>Nano Research</i> , 2019 , 12, 2866-2871	10	38

172	Single-atom electrocatalysis: a new approach to in vivo electrochemical biosensing. <i>Science China Chemistry</i> , 2019 , 62, 1720-1724	7.9	32
171	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
170	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
169	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
168	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
167	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
166	Porous organic cage stabilised palladium nanoparticles: efficient heterogeneous catalysts for carbonylation reaction of aryl halides. <i>Chemical Communications</i> , 2018 , 54, 2796-2799	5.8	48
165	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
164	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
163	Revealing the Active Species for Aerobic Alcohol Oxidation by Using Uniform Supported Palladium Catalysts. <i>Angewandte Chemie</i> , 2018 , 130, 4732-4736	3.6	15
162	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
161	PtAl truncated octahedron nanocrystals for improved formic acid electrooxidation. <i>Chemical Communications</i> , 2018 , 54, 3951-3954	5.8	9
160	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
159	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
158	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
157	Defect Effects on TiO Nanosheets: Stabilizing Single Atomic Site Au and Promoting Catalytic Properties. <i>Advanced Materials</i> , 2018 , 30, 1705369	24	474
156	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
155	Porphyrin-like Fe-N4 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

154	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
153	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
152	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. <i>Nature Nanotechnology</i> , 2018 , 13, 856-861	28.7	471
151	Single-Atom Catalysts: Synthetic Strategies and Electrochemical Applications. <i>Joule</i> , 2018 , 2, 1242-1264	27.8	1046
150	A Bimetallic Zn/Fe Polyphthalocyanine-Derived Single-Atom Fe-N ₄ Catalytic Site: A Superior Trifunctional Catalyst for Overall Water Splitting and Zn-Air Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 8750-8754	3.6	40
149	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
148	BaWO ₄ :Ln ³⁺ Nanocrystals: Controllable Synthesis, Theoretical Investigation on the Substitution Site, and Bright Upconversion Luminescence as a Sensor for Glucose Detection. <i>ACS Applied Nano Materials</i> , 2018 , 1, 4762-4770	5.6	8
147	Two-dimensional SnO ₂ /graphene heterostructures for highly reversible electrochemical lithium storage. <i>Science China Materials</i> , 2018 , 61, 1527-1535	7.1	35
146	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
145	Carbon nitride supported Fe cluster catalysts with superior performance for alkene epoxidation. <i>Nature Communications</i> , 2018 , 9, 2353	17.4	162
144	Single Tungsten Atoms Supported on MOF-Derived N-Doped Carbon for Robust Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018 , 30, e1800396	24	302
143	Single-Site Au Catalyst for Silane Oxidation with Water. <i>Advanced Materials</i> , 2018 , 30, 1704720	24	84
142	Ultrathin Pt ₂ N Nanowires: High-Performance Catalysts for Electrooxidation of Methanol and Formic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 77-81	8.3	41
141	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
140	Accelerating water dissociation kinetics by isolating cobalt atoms into ruthenium lattice. <i>Nature Communications</i> , 2018 , 9, 4958	17.4	147
139	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
138	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
137	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

136	A cocoon silk chemistry strategy to ultrathin N-doped carbon nanosheet with metal single-site catalytic. <i>Nature Communications</i> , 2018 , 9, 3861	17.4	132
135	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
134	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
133	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
132	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
131	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
130	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
129	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
128	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
127	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
126	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
125	Innenrücktitelbild: Isolated Single Iron Atoms Anchored on N-Doped Porous Carbon as an Efficient Electrocatalyst for the Oxygen Reduction Reaction (Angew. Chem. 24/2017). <i>Angewandte Chemie</i> , 2017 , 129, 7107-7107	3.6	5
124	An efficient, controllable and facile two-step synthesis strategy: Fe ₃ O ₄ @RGO composites with various Fe ₃ O ₄ nanoparticles and their supercapacitance properties. <i>Nano Research</i> , 2017 , 10, 3303-3313	10	24
123	Preparation and electrochemical characterization of ultrathin WO ₃ /C nanosheets as anode materials in lithium ion batteries. <i>Nano Research</i> , 2017 , 10, 1903-1911	10	29
122	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
121	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
120	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
119	Design of ultrathin Pt-Mo-Ni nanowire catalysts for ethanol electrooxidation. <i>Science Advances</i> , 2017 , 3, e1603068	14.3	181

118	Rational Control of the Selectivity of a Ruthenium Catalyst for Hydrogenation of 4-Nitrostyrene by Strain Regulation. <i>Angewandte Chemie</i> , 2017 , 129, 12133-12137	3.6	12
117	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
116	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
115	ZIF-derived porous carbon supported Pd nanoparticles within mesoporous silica shells: sintering- and leaching-resistant core-shell nanocatalysts. <i>Chemical Communications</i> , 2017 , 53, 9490-9493	5.8	41
114	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
113	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
112	Bimetallic PdCo catalyst for selective direct formylation of amines by carbon monoxide. <i>Nano Research</i> , 2017 , 10, 890-896	10	12
111	Understanding of the major reactions in solution synthesis of functional nanomaterials. <i>Science China Materials</i> , 2016 , 59, 938-996	7.1	75
110	Au/CuSiO ₃ nanotubes: High-performance robust catalysts for selective oxidation of ethanol to acetaldehyde. <i>Nano Research</i> , 2016 , 9, 2681-2686	10	17
109	Pd-dispersed CuS hetero-nanoplates for selective hydrogenation of phenylacetylene. <i>Nano Research</i> , 2016 , 9, 1209-1219	10	25
108	Free-standing palladium-nickel alloy wavy nanosheets. <i>Nano Research</i> , 2016 , 9, 2244-2250	10	36
107	A facile strategy for the synthesis of branched PtPdM (M = Co, Ni) trimetallic nanocrystals. <i>CrystEngComm</i> , 2016 , 18, 4023-4026	3.3	5
106	Interface-induced formation of onion-like alloy nanocrystals by defects engineering. <i>Nano Research</i> , 2016 , 9, 584-592	10	12
105	Ir-Cu nanoframes: one-pot synthesis and efficient electrocatalysts for oxygen evolution reaction. <i>Chemical Communications</i> , 2016 , 52, 3793-6	5.8	63
104	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
103	Nano PdAu Bimetallic Alloy as an Effective Catalyst for the Buchwald-Hartwig Reaction. <i>Chemistry - An Asian Journal</i> , 2016 , 11, 351-5	4.5	16
102	Platinum-Copper Nanoframes: One-Pot Synthesis and Enhanced Electrocatalytic Activity. <i>Chemistry - A European Journal</i> , 2016 , 22, 4960-5	4.8	23
101	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

100	Kinetically Controlling Surface Structure to Construct Defect-Rich Intermetallic Nanocrystals: Effective and Stable Catalysts. <i>Advanced Materials</i> , 2016 , 28, 2540-6	24	72
99	Pt-M (M = Cu, Fe, Zn, etc.) bimetallic nanomaterials with abundant surface defects and robust catalytic properties. <i>Chemical Communications</i> , 2016 , 52, 5985-8	5.8	46
98	Controllable synthesis of PtCu nanocrystals and their tunable catalytic properties. <i>CrystEngComm</i> , 2016 , 18, 3764-3767	3.3	6
97	Porous bimetallic Pt-Fe nanocatalysts for highly efficient hydrogenation of acetone. <i>Nano Research</i> , 2015 , 8, 2706-2713	10	38
96	Ultra-thin Cu ₂ S nanosheets: effective cocatalysts for photocatalytic hydrogen production. <i>Chemical Communications</i> , 2015 , 51, 13305-8	5.8	29
95	Ultrathin CuO nanorods: controllable synthesis and superior catalytic properties in styrene epoxidation. <i>Chemical Communications</i> , 2015 , 51, 8817-20	5.8	26
94	Heterogeneous catalysis for green chemistry based on nanocrystals. <i>National Science Review</i> , 2015 , 2, 150-166	10.8	50
93	Copper nanocrystal plane effect on stereoselectivity of catalytic deoxygenation of aromatic epoxides. <i>Journal of the American Chemical Society</i> , 2015 , 137, 3791-4	16.4	44
92	Room-Temperature Hydrogenation of Citral Catalyzed by PalladiumSilver Nanocrystals Supported on SnO ₂ . <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 2120-2124	2.3	4
91	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
90	Chemoselective hydrogenation of nitrobenzyl ethers to aminobenzyl ethers catalyzed by palladiumnickel bimetallic nanoparticles. <i>Tetrahedron</i> , 2015 , 71, 9240-9244	2.4	4
89	Seed-mediated synthesis of hexameric octahedral PtPdCu nanocrystals with high electrocatalytic performance. <i>Chemical Communications</i> , 2015 , 51, 15406-9	5.8	19
88	Highly chemoselective hydrogenation of active benzaldehydes to benzyl alcohols catalyzed by bimetallic nanoparticles. <i>Tetrahedron Letters</i> , 2015 , 56, 6460-6462	2	9
87	Heterogeneous selective hydrogenation of ethylene carbonate to methanol and ethylene glycol over a copper chromite nanocatalyst. <i>Chemical Communications</i> , 2015 , 51, 1252-4	5.8	38
86	Facile synthesis of Ag-doped ZnCdS nanocrystals and transformation into Ag-doped ZnCdS _{Se} nanocrystals with Se treatment. <i>RSC Advances</i> , 2015 , 5, 1083-1090	3.7	15
85	Synthesis of palladium and palladium sulfide nanocrystals via thermolysis of a Pdthiolate cluster. <i>Science China Materials</i> , 2015 , 58, 936-943	7.1	9
84	Silver Iodide Nanospheres Wrapped in Reduced Graphene Oxide for Enhanced Photocatalysis. <i>ChemCatChem</i> , 2015 , 7, 2918-2923	5.2	10
83	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

82	Hydrogenation of (N,N-disubstituted aminomethyl)nitrobenzenes to (N,N-disubstituted aminomethyl)anilines catalyzed by palladiumnickel bimetallic nanoparticles. <i>RSC Advances</i> , 2015 , 5, 47125-47130	3.7	6
81	Phase-transfer interface promoted corrosion from PtNi10 nanoctahedra to Pt4Ni nanoframes. <i>Nano Research</i> , 2015 , 8, 140-155	10	46
80	Green chemistry for nanoparticle synthesis. <i>Chemical Society Reviews</i> , 2015 , 44, 5778-92	58.5	625
79	Nanocrystals from solutions: catalysts. <i>Chemical Society Reviews</i> , 2014 , 43, 2112-24	58.5	158
78	Ag/CeO2 nanospheres: Efficient catalysts for formaldehyde oxidation. <i>Applied Catalysis B: Environmental</i> , 2014 , 148-149, 36-43	21.8	53
77	Pd and Au@Pd nanodendrites: a one-pot synthesis and their superior catalytic properties. <i>Chemical Communications</i> , 2014 , 50, 6141-4	5.8	30
76	A used battery supported Ag catalyst for efficient oxidation of alcohols and carbon oxide. <i>RSC Advances</i> , 2014 , 4, 25384-25388	3.7	11
75	Bimetallic Pd-Cu nanocrystals and their tunable catalytic properties. <i>Chemical Communications</i> , 2014 , 50, 4588-91	5.8	66
74	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
73	Energy upconversion in lanthanide-doped core/porous-shell nanoparticles. <i>Inorganic Chemistry</i> , 2014 , 53, 3257-9	5.1	31
72	Fabrication of 1D nickel sulfide nanocrystals with high capacitances and remarkable durability. <i>RSC Advances</i> , 2014 , 4, 47513-47516	3.7	16
71	Hydroformylation of alkenes over rhodium supported on the metal-organic framework ZIF-8. <i>Nano Research</i> , 2014 , 7, 1364-1369	10	83
70	Hydrothermal Synthesis of Mn-Doped ZnSe Quantum Dots and Effects of Surface Overcoating on Their Optical Properties. <i>Science of Advanced Materials</i> , 2014 , 6, 2275-2280	2.3	6
69	Pd-Cu2O and Ag-Cu2O Hybrid Concave Nanomaterials for an Effective Synergistic Catalyst. <i>Angewandte Chemie</i> , 2013 , 125, 11255-11259	3.6	15
68	Systematic synthesis of ZnO nanostructures. <i>Chemistry - A European Journal</i> , 2013 , 19, 3735-40	4.8	19
67	Progress in organic reactions catalyzed by bimetallic nanomaterials. <i>Chinese Journal of Catalysis</i> , 2013 , 34, 1964-1974	11.3	34
66	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
65	Preparation of bimetallic nanocrystals by coreduction of mixed metal ions in a liquid-solid solution synthetic system according to the electronegativity of alloys. <i>CrystEngComm</i> , 2013 , 15, 4806	3.3	7

64	C/N-sensitized self-assembly of mesostructured TiO ₂ nanospheres with significantly enhanced photocatalytic activity. <i>New Journal of Chemistry</i> , 2013 , 37, 2582	3.6	10
63	Rhodium-nickel bimetallic nanocatalysts: high performance of room-temperature hydrogenation. <i>Chemical Communications</i> , 2013 , 49, 303-5	5.8	34
62	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
61	Semiconductor/ noble metal hybrid nanomaterials with controlled structures. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1587-1590	13	35
60	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
59	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
58	Interface-Mediated Synthesis of Transition-Metal (Mn, Co, and Ni) Hydroxide Nanoplates. <i>Crystal Growth and Design</i> , 2013 , 13, 1949-1954	3.5	9
57	Magnetic tuning of upconversion luminescence in lanthanide-doped bifunctional nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4366-9	16.4	166
56	Pt-Ni nanodendrites with high hydrogenation activity. <i>Chemical Communications</i> , 2013 , 49, 2903-5	5.8	91
55	Magnetic Tuning of Upconversion Luminescence in Lanthanide-Doped Bifunctional Nanocrystals. <i>Angewandte Chemie</i> , 2013 , 125, 4462-4465	3.6	20
54	One-pot protocol for bimetallic Pt/Cu hexapod concave nanocrystals with enhanced electrocatalytic activity. <i>Scientific Reports</i> , 2013 , 3, 1404	4.9	64
53	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
52	Palladium/tin bimetallic single-crystalline hollow nanospheres. <i>Chemical Communications</i> , 2012 , 48, 1683-5	5.8	19
51	A Strategy for Designing a Concave Pt/Ni Alloy through Controllable Chemical Etching. <i>Angewandte Chemie</i> , 2012 , 124, 12692-12696	3.6	37
50	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
49	Highly branched Pt/Ni nanocrystals enclosed by stepped surface for methanol oxidation. <i>Chemical Science</i> , 2012 , 3, 1925	9.4	136
48	Synthesis and catalytic properties of bimetallic nanomaterials with various architectures. <i>Nano Today</i> , 2012 , 7, 448-466	17.9	405
47	Single-crystalline octahedral Au-Ag nanoframes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18165-8	16.4	184

46	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
45	Ultrathin Au-Ag bimetallic nanowires with Coulomb blockade effects. <i>Chemical Communications</i> , 2011 , 47, 5160-2	5.8	67
44	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
43	Bimetallic nanocrystals: liquid-phase synthesis and catalytic applications. <i>Advanced Materials</i> , 2011 , 23, 1044-60	24	901
42	Bimetallic Nanocrystals: Bimetallic Nanocrystals: Liquid-Phase Synthesis and Catalytic Applications (Adv. Mater. 9/2011). <i>Advanced Materials</i> , 2011 , 23, 1036-1036	24	9
41	Mesoporous Multicomponent Nanocomposite Colloidal Spheres: Ideal High-Temperature Stable Model Catalysts. <i>Angewandte Chemie</i> , 2011 , 123, 3809-3813	3.6	14
40	Mesoporous multicomponent nanocomposite colloidal spheres: ideal high-temperature stable model catalysts. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3725-9	16.4	93
39	Controllable synthesis of Cu-based nanocrystals in ODA solvent. <i>Chemical Communications</i> , 2011 , 47, 3604-6	5.8	41
38	Kinked gold nanowires and their SPR/SERS properties. <i>Chemical Communications</i> , 2011 , 47, 9909-11	5.8	33
37	High performance electrocatalyst: Pt-Cu hollow nanocrystals. <i>Chemical Communications</i> , 2011 , 47, 8094-6	5.8	123
36	General preparation for Pt-based alloy nanoporous nanoparticles as potential nanocatalysts. <i>Scientific Reports</i> , 2011 , 1, 37	4.9	106
35	Effective octadecylamine system for nanocrystal synthesis. <i>Inorganic Chemistry</i> , 2011 , 50, 5196-202	5.1	57
34	Directly assembling ligand-free ZnO nanocrystals into three-dimensional mesoporous structures by oriented attachment. <i>Inorganic Chemistry</i> , 2011 , 50, 5841-7	5.1	46
33	Synthesis of LiV ₃ O ₈ nanorods and shape-dependent electrochemical performance. <i>Journal of Materials Research</i> , 2011 , 26, 424-429	2.5	3
32	Synthesis of Luminescent Cubic Phase One-Dimensional CuI Nanostructures in Solution. <i>Crystal Growth and Design</i> , 2010 , 10, 3387-3390	3.5	22
31	Rare-earth oxide nanostructures: rules of rare-earth nitrate thermolysis in octadecylamine. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 925-31	4.5	12
30	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
29	Nanocrystalline intermetallics and alloys. <i>Nano Research</i> , 2010 , 3, 574-580	10	172

28	Shape control of CoO and LiCoO ₂ nanocrystals. <i>Nano Research</i> , 2010 , 3, 1-7	10	67
27	Nanocrystals: Solution-based synthesis and applications as nanocatalysts. <i>Nano Research</i> , 2009 , 2, 30-46	10	159
26	Bi ₂ S ₃ nanotubes: Facile synthesis and growth mechanism. <i>Nano Research</i> , 2009 , 2, 130-134	10	66
25	Hydrothermal synthesis of orthorhombic LiMnO ₂ nano-particles and LiMnO ₂ nanorods and comparison of their electrochemical performances. <i>Nano Research</i> , 2009 , 2, 923-930	10	55
24	Growth and assembly of monodisperse Ag nanoparticles by exchanging the organic capping ligands. <i>Journal of Materials Research</i> , 2009 , 24, 352-356	2.5	9
23	General synthesis of I-III-VI ₂ ternary semiconductor nanocrystals. <i>Chemical Communications</i> , 2008 , 2556-8	8.8	118
22	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
21	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
20	Template-Free Synthesis and Characterization of Single-Phase Voided Poly(o-anisidine) and Polyaniline Colloidal Spheres. <i>Chemistry of Materials</i> , 2007 , 19, 5773-5778	9.6	37
19	A versatile bottom-up assembly approach to colloidal spheres from nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6650-3	16.4	287
18	A Versatile Bottom-up Assembly Approach to Colloidal Spheres from Nanocrystals. <i>Angewandte Chemie</i> , 2007 , 119, 6770-6773	3.6	43
17	Shape-dependent catalytic activity of CuO/MgO nanocatalysts. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3602-6	1.3	5
16	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
15	NiO nanorings and their unexpected catalytic property for CO oxidation. <i>Nanotechnology</i> , 2006 , 17, 979-83	8.4	136
14	Preparation of nearly monodisperse nanoscale inorganic pigments. <i>Chemistry - an Asian Journal</i> , 2006 , 1, 91-4	4.5	11
13	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
12	Atomically dispersed Ni anchored on polymer-derived mesh-like N-doped carbon nanofibers as an efficient CO ₂ electrocatalytic reduction catalyst. <i>Nano Research</i> , 1	10	2
11	Superiority of Dual-Atom Catalysts in Electrocatalysis: One Step Further Than Single-Atom Catalysts. <i>Advanced Energy Materials</i> , 2103564	21.8	21

10	pπ Orbital Hybridization Induced by a Monodispersed Ga Site on a Pt 3 Mn Nanocatalyst Boosts Ethanol Electrooxidation. <i>Angewandte Chemie</i> ,	3.6	2
9	Bi/Zn dual single-atom catalysts for electroreduction of CO ₂ to syngas. <i>ChemCatChem</i> ,	5.2	3
8	Rare-earth single atom based luminescent composite nanomaterials: Tunable full-color single phosphor and applications in WLEDs. <i>Nano Research</i> ,1	10	3
7	Heterogeneous Single Atom Environmental Catalysis: Fundamentals, Applications, and Opportunities. <i>Advanced Functional Materials</i> ,2108381	15.6	8
6	Single-atom catalysts: stimulating electrochemical CO ₂ reduction reaction in the industrial era. <i>Journal of Materials Chemistry A</i> ,	13	0
5	Revealing the surface atomic arrangement of noble metal alkane dehydrogenation catalysts by a stepwise reduction-oxidation approach. <i>Nano Research</i> ,1	10	4
4	Design concept for electrocatalysts. <i>Nano Research</i> ,1	10	121
3	Regulations of active moiety in single atom catalysts for electrochemical hydrogen evolution reaction. <i>Nano Research</i> ,1	10	24
2	Emerging low-nuclearity supported metal catalysts with atomic level precision for efficient heterogeneous catalysis. <i>Nano Research</i> ,	10	22
1	Recent Progress in Thermal Conversion of CO ₂ via Single-Atom Site Catalysis. <i>Small Structures</i> ,	8.7	3