

# Xiao-Dong Wen

## List of Publications by Citations

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369  
papers

23,075  
citations

77  
h-index

145  
g-index

391  
ext. papers

29,043  
ext. citations

9.5  
avg, IF

7.17  
L-index

#	Paper	IF	Citations
369	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> , <b>2018</b> , 140, 2610-2618	16.4	1073
368	Single-Atom Catalysts: Synthetic Strategies and Electrochemical Applications. <i>Joule</i> , <b>2018</b> , 2, 1242-1264	27.8	1046
367	Nearly Monodisperse Cu <sub>2</sub> O and CuO Nanospheres: Preparation and Applications for Sensitive Gas Sensors. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 867-871	9.6	966
366	Low-temperature hydrogen production from water and methanol using Pt/EMoC catalysts. <i>Nature</i> , <b>2017</b> , 544, 80-83	50.4	748
365	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> , <b>2018</b> , 140, 4218-4221	16.4	634
364	ZnSe semiconductor hollow microspheres. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 3027-30	16.4	560
363	Defect Effects on TiO Nanosheets: Stabilizing Single Atomic Site Au and Promoting Catalytic Properties. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705369	24	474
362	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 856-861	28.7	471
361	Hollow N-Doped Carbon Spheres with Isolated Cobalt Single Atomic Sites: Superior Electrocatalysts for Oxygen Reduction. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 17269-17272	16.4	444
360	Enhanced oxygen reduction with single-atomic-site iron catalysts for a zinc-air battery and hydrogen-air fuel cell. <i>Nature Communications</i> , <b>2018</b> , 9, 5422	17.4	431
359	Atomic-layered Au clusters on EMoC as catalysts for the low-temperature water-gas shift reaction. <i>Science</i> , <b>2017</b> , 357, 389-393	33.3	377
358	Fe Isolated Single Atoms on S, N Codoped Carbon by Copolymer Pyrolysis Strategy for Highly Efficient Oxygen Reduction Reaction. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800588	24	338
357	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO. <i>Nature Chemistry</i> , <b>2019</b> , 11, 222-228	17.6	337
356	Atomic site electrocatalysts for water splitting, oxygen reduction and selective oxidation. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 2215-2264	58.5	309
355	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> , <b>2018</b> , 57, 8614-8618	16.4	305
354	Single Tungsten Atoms Supported on MOF-Derived N-Doped Carbon for Robust Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800396	24	302
353	Rational Design of Single Molybdenum Atoms Anchored on N-Doped Carbon for Effective Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 16086-16090	16.4	299

352	MXene (TiC) Vacancy-Confined Single-Atom Catalyst for Efficient Functionalization of CO. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 4086-4093	16.4	277
351	A Molecular Surface Functionalization Approach to Tuning Nanoparticle Electrocatalysts for Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8120-5	16.4	272
350	Surface active sites on Co <sub>3</sub> O <sub>4</sub> nanobelt and nanocube model catalysts for CO oxidation. <i>Nano Research</i> , <b>2010</b> , 3, 363-368	10	240
349	Highly Tunable Selectivity for Syngas-Derived Alkenes over Zinc and Sodium-Modulated Fe <sub>5</sub> C <sub>2</sub> Catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 9902-7	16.4	228
348	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> , <b>2018</b> , 115, 12692-12697	11.5	222
347	Atomically Dispersed Pd on Nanodiamond/Graphene Hybrid for Selective Hydrogenation of Acetylene. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 13142-13146	16.4	222
346	Single-atom Rh/N-doped carbon electrocatalyst for formic acid oxidation. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 390-397	28.7	208
345	Alumina-Supported CoFe Alloy Catalysts Derived from Layered-Double-Hydroxide Nanosheets for Efficient Photothermal CO Hydrogenation to Hydrocarbons. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704663	24	208
344	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general host-guest strategy. <i>Nature Chemistry</i> , <b>2020</b> , 12, 764-772	17.6	207
343	A Polymer Encapsulation Strategy to Synthesize Porous Nitrogen-Doped Carbon-Nanosphere-Supported Metal Isolated-Single-Atomic-Site Catalysts. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706508	24	203
342	Electronic structure engineering to boost oxygen reduction activity by controlling the coordination of the central metal. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2348-2352	35.4	203
341	Constructing NiCo/FeO Heteroparticles within MOF-74 for Efficient Oxygen Evolution Reactions. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 15336-15341	16.4	193
340	New materials graphyne, graphdiyne, graphone, and graphane: review of properties, synthesis, and application in nanotechnology. <i>Nanotechnology, Science and Applications</i> , <b>2014</b> , 7, 1-29	3.9	184
339	Cation vacancy stabilization of single-atomic-site Pt/Ni(OH) catalyst for diboration of alkynes and alkenes. <i>Nature Communications</i> , <b>2018</b> , 9, 1002	17.4	179
338	A highly CO-tolerant atomically dispersed Pt catalyst for chemoselective hydrogenation. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 354-361	28.7	175
337	Regulating the coordination structure of single-atom Fe-NC catalytic sites for benzene oxidation. <i>Nature Communications</i> , <b>2019</b> , 10, 4290	17.4	173
336	Nanocrystalline intermetallics and alloys. <i>Nano Research</i> , <b>2010</b> , 3, 574-580	10	172
335	Carbon nitride supported Fe cluster catalysts with superior performance for alkene epoxidation. <i>Nature Communications</i> , <b>2018</b> , 9, 2353	17.4	162

- 334 Selective synthesis and characterization of CdSe nanorods and fractal nanocrystals. *Inorganic Chemistry*, **2002**, 41, 5249-54 5.1 160
- 333 Confined Pyrolysis within Metal-Organic Frameworks To Form Uniform Ru Clusters for Efficient Oxidation of Alcohols. *Journal of the American Chemical Society*, **2017**, 139, 9795-9798 16.4 157
- 332 Oxide-Modified Nickel Photocatalysts for the Production of Hydrocarbons in Visible Light. *Angewandte Chemie - International Edition*, **2016**, 55, 4215-9 16.4 157
- 331 NiFe (Oxy) Hydroxides Derived from NiFe Disulfides as an Efficient Oxygen Evolution Catalyst for Rechargeable Zn-Air Batteries: The Effect of Surface S Residues. *Advanced Materials*, **2018**, 30, e1800757<sup>24</sup> 153
- 330 A new molybdenum nitride catalyst with rhombohedral MoS<sub>2</sub> structure for hydrogenation applications. *Journal of the American Chemical Society*, **2015**, 137, 4815-22 16.4 148
- 329 Discovering Partially Charged Single-Atom Pt for Enhanced Anti-Markovnikov Alkene Hydrosilylation. *Journal of the American Chemical Society*, **2018**, 140, 7407-7410 16.4 147
- 328 Functionalization of Hollow Nanomaterials for Catalytic Applications: Nanoreactor Construction. *Advanced Materials*, **2019**, 31, e1800426 24 147
- 327 Accelerating water dissociation kinetics by isolating cobalt atoms into ruthenium lattice. *Nature Communications*, **2018**, 9, 4958 17.4 147
- 326 A photochromic composite with enhanced carrier separation for the photocatalytic activation of benzylic C-H bonds in toluene. *Nature Catalysis*, **2018**, 1, 704-710 36.5 144
- 325 Strain Engineering to Enhance the Electrooxidation Performance of Atomic-Layer Pt on Intermetallic PtGa. *Journal of the American Chemical Society*, **2018**, 140, 2773-2776 16.4 141
- 324 High-throughput theoretical optimization of the hydrogen evolution reaction on MXenes by transition metal modification. *Journal of Materials Chemistry A*, **2018**, 6, 4271-4278 13 140
- 323 Quantitative Study of Charge Carrier Dynamics in Well-Defined WO<sub>3</sub> Nanowires and Nanosheets: Insight into the Crystal Facet Effect in Photocatalysis. *Journal of the American Chemical Society*, **2018**, 140, 9078-9082 16.4 137
- 322 Highly branched Pt/Ni nanocrystals enclosed by stepped surface for methanol oxidation. *Chemical Science*, **2012**, 3, 1925 9.4 136
- 321 Solvothermal synthesis of lithium iron phosphate nanoplates. *Journal of Materials Chemistry*, **2011**, 21, 9994 136
- 320 Hydrogen Evolution Reaction on Hybrid Catalysts of Vertical MoS<sub>2</sub> Nanosheets and Hydrogenated Graphene. *ACS Catalysis*, **2018**, 8, 1828-1836 13.1 135
- 319 Synergistically Interactive Pyridinic-N-MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. *Angewandte Chemie - International Edition*, **2020**, 59, 8982-8990 16.4 134
- 318 A cocoon silk chemistry strategy to ultrathin N-doped carbon nanosheet with metal single-site catalysts. *Nature Communications*, **2018**, 9, 3861 17.4 132
- 317 Benzene under high pressure: a story of molecular crystals transforming to saturated networks, with a possible intermediate metallic phase. *Journal of the American Chemical Society*, **2011**, 133, 9023-35<sup>16.4</sup> 125

316	A General Strategy for Fabricating Isolated Single Metal Atomic Site Catalysts in Y Zeolite. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 9305-9311	16.4	124
315	Flexible SnS nanobelts: Facile synthesis, formation mechanism and application in Li-ion batteries. <i>Nano Research</i> , <b>2013</b> , 6, 55-64	10	122
314	Site-selective photoinduced cleavage and profiling of DNA by chiral semiconductor nanoparticles. <i>Nature Chemistry</i> , <b>2018</b> , 10, 821-830	17.6	120
313	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> , <b>2018</b> , 140, 11161-11164	16.4	120
312	Three-dimensional open nano-netcage electrocatalysts for efficient pH-universal overall water splitting. <i>Nature Communications</i> , <b>2019</b> , 10, 4875	17.4	119
311	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> , <b>2018</b> , 57, 11262-11266	16.4	119
310	Anchoring Cu species over nanodiamond-graphene for semi-hydrogenation of acetylene. <i>Nature Communications</i> , <b>2019</b> , 10, 4431	17.4	118
309	Mn <sub>3</sub> O <sub>4</sub> Nanocrystals: Facile Synthesis, Controlled Assembly, and Application. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 4232-4236	9.6	112
308	Ultralong Single-Crystalline Ag <sub>2</sub> S Nanowires: Promising Candidates for Photoswitches and Room-Temperature Oxygen Sensors. <i>Advanced Materials</i> , <b>2008</b> , 20, 2628-2632	24	109
307	A stable low-temperature H <sub>2</sub> -production catalyst by crowding Pt on $\beta$ -MoC. <i>Nature</i> , <b>2021</b> , 589, 396-401	50.4	109
306	Size and shape control of LiFePO <sub>4</sub> nanocrystals for better lithium ion battery cathode materials. <i>Nano Research</i> , <b>2013</b> , 6, 469-477	10	108
305	Controlled synthesis of wurtzite CuInS <sub>2</sub> nanocrystals and their side-by-side nanorod assemblies. <i>CrystEngComm</i> , <b>2011</b> , 13, 4039	3.3	94
304	Solvent Tunes the Selectivity of Hydrogenation Reaction over $\beta$ -MoC Catalyst. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 14481-14489	16.4	93
303	High-Indexed PtNi Alloy Tetrahedral Nanoframes Evolved through Preferential CO Etching. <i>Nano Letters</i> , <b>2017</b> , 17, 2204-2210	11.5	92
302	Tin-Assisted Fully Exposed Platinum Clusters Stabilized on Defect-Rich Graphene for Dehydrogenation Reaction. <i>ACS Catalysis</i> , <b>2019</b> , 9, 5998-6005	13.1	92
301	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> , <b>2019</b> , 58, 4271-4275	16.4	92
300	Co-Based Catalysts Derived from Layered-Double-Hydroxide Nanosheets for the Photothermal Production of Light Olefins. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800527	24	92
299	Stress-induced phase transformation and optical coupling of silver nanoparticle superlattices into mechanically stable nanowires. <i>Nature Communications</i> , <b>2014</b> , 5, 4179	17.4	90

298	Fluorescence Resonant Energy Transfer Biosensor Based on Upconversion-Luminescent Nanoparticles. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 6208-6211	3.6	88
297	Single-Site Au Catalyst for Silane Oxidation with Water. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704720	24	84
296	Porphyrin-like Fe-N <sub>4</sub> sites with sulfur adjustment on hierarchical porous carbon for different rate-determining steps in oxygen reduction reaction. <i>Nano Research</i> , <b>2018</b> , 11, 6260-6269	10	83
295	Chelating N-Heterocyclic Carbene Ligands Enable Tuning of Electrocatalytic CO Reduction to Formate and Carbon Monoxide: Surface Organometallic Chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 4981-4985	16.4	81
294	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> , <b>2018</b> , 28, 1802167	15.6	78
293	Tuning Gold Nanoparticles with Chelating Ligands for Highly Efficient Electrocatalytic CO Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 12675-12679	16.4	78
292	MOF-Confined Sub-2 nm Atomically Ordered Intermetallic PdZn Nanoparticles as High-Performance Catalysts for Selective Hydrogenation of Acetylene. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801878	24	77
291	Room-Temperature Soft Magnetic Iron Oxide Nanocrystals: Synthesis, Characterization, and Size-Dependent Magnetic Properties. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 5029-5034	9.6	75
290	One-Pot Pyrolysis to N-Doped Graphene with High-Density Pt Single Atomic Sites as Heterogeneous Catalyst for Alkene Hydrosilylation. <i>ACS Catalysis</i> , <b>2018</b> , 8, 10004-10011	13.1	75
289	Shockwave generates dislocation loops in bcc iron. <i>Nature Communications</i> , <b>2018</b> , 9, 4880	17.4	74
288	Reductive Transformation of Layered-Double-Hydroxide Nanosheets to Fe-Based Heterostructures for Efficient Visible-Light Photocatalytic Hydrogenation of CO. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803127	24	70
287	When Density Functional Approximations Meet Iron Oxides. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 5132-5144	6.4	69
286	Impact of the Coordination Environment on Atomically Dispersed Pt Catalysts for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , <b>2020</b> , 10, 907-913	13.1	68
285	Shape control of CoO and LiCoO <sub>2</sub> nanocrystals. <i>Nano Research</i> , <b>2010</b> , 3, 1-7	10	67
284	Rational Design of Single Molybdenum Atoms Anchored on N-Doped Carbon for Effective Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 16302-16306	3.6	66
283	Bi <sub>2</sub> S <sub>3</sub> nanotubes: Facile synthesis and growth mechanism. <i>Nano Research</i> , <b>2009</b> , 2, 130-134	10	66
282	Selective Synthesis and Magnetic Properties of $\delta$ -MnSe and MnSe <sub>2</sub> Uniform Microcrystals. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 9261-9265	3.4	65
281	ZnSe Semiconductor Hollow Microspheres. <i>Angewandte Chemie</i> , <b>2003</b> , 115, 3135-3138	3.6	64

280	Atomically dispersed Fe atoms anchored on COF-derived N-doped carbon nanospheres as efficient multi-functional catalysts. <i>Chemical Science</i> , <b>2019</b> , 11, 786-790	9.4	64
279	Machine-Learning Prediction of CO Adsorption in Thiolated, Ag-Alloyed Au Nanoclusters. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 17508-17514	16.4	63
278	Convenient fabrication of BiOBr ultrathin nanosheets with rich oxygen vacancies for photocatalytic selective oxidation of secondary amines. <i>Nano Research</i> , <b>2019</b> , 12, 1625-1630	10	62
277	Revealing the Active Species for Aerobic Alcohol Oxidation by Using Uniform Supported Palladium Catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 4642-4646	16.4	62
276	Isolating contiguous Pt atoms and forming Pt-Zn intermetallic nanoparticles to regulate selectivity in 4-nitrophenylacetylene hydrogenation. <i>Nature Communications</i> , <b>2019</b> , 10, 3787	17.4	60
275	Synthesis of uniform CoTe and NiTe semiconductor nanocluster wires through a novel coreduction method. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 2174-5	5.1	60
274	Atomically Dispersed Ni/EMoC Catalyst for Hydrogen Production from Methanol/Water. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 309-317	16.4	60
273	Luminescent Bis-(8-hydroxyquinoline) Cadmium Complex Nanorods. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 564-567	3.5	59
272	Mössbauer Spectroscopy of Iron Carbides: From Prediction to Experimental Confirmation. <i>Scientific Reports</i> , <b>2016</b> , 6, 26184	4.9	58
271	Hydrothermal synthesis of orthorhombic LiMnO <sub>2</sub> nano-particles and LiMnO <sub>2</sub> nanorods and comparison of their electrochemical performances. <i>Nano Research</i> , <b>2009</b> , 2, 923-930	10	55
270	Tuning Polarity of Cu-O Bond in Heterogeneous Cu Catalyst to Promote Additive-free Hydroboration of Alkynes. <i>Chem</i> , <b>2020</b> , 6, 725-737	16.2	53
269	Large-Scale Soft Colloidal Template Synthesis of 1.4 nm Thick CdSe Nanosheets. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 6993-6996	3.6	53
268	Inverse ZrO/Cu as a highly efficient methanol synthesis catalyst from CO hydrogenation. <i>Nature Communications</i> , <b>2020</b> , 11, 5767	17.4	51
267	Toward Bifunctional Overall Water Splitting Electrocatalyst: General Preparation of Transition Metal Phosphide Nanoparticles Decorated N-Doped Porous Carbon Spheres. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 44201-44208	9.5	51
266	Photo-Driven Syngas Conversion to Lower Olefins over Oxygen-Decorated Fe <sub>5</sub> C <sub>2</sub> Catalyst. <i>Chem</i> , <b>2018</b> , 4, 2917-2928	16.2	48
265	Supramolecular Porphyrin Cages Assembled at Molecular-Materials Interfaces for Electrocatalytic CO Reduction. <i>ACS Central Science</i> , <b>2017</b> , 3, 1032-1040	16.8	47
264	Low-temperature CH <sub>4</sub> Catalytic Combustion over Pd Catalyst Supported on Co <sub>3</sub> O <sub>4</sub> Nanocrystals with Well-Defined Crystal Planes. <i>ChemCatChem</i> , <b>2011</b> , 3, 868-874	5.2	47
263	Phase-transfer interface promoted corrosion from PtNi <sub>10</sub> nanooctahedra to Pt <sub>4</sub> Ni nanoframes. <i>Nano Research</i> , <b>2015</b> , 8, 140-155	10	46

262	Oleylamine-Mediated Shape Evolution of Palladium Nanocrystals. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 6439-6443	6.43	46
261	Structure and energetics of hydrogen adsorption on Fe <sub>3</sub> O <sub>4</sub> (1 1 1). <i>Journal of Molecular Catalysis A</i> , <b>2009</b> , 302, 129-136		45
260	Preparation of monodisperse Se colloid spheres and Se nanowires using Na <sub>2</sub> SeSO <sub>3</sub> as precursor. <i>Nano Research</i> , <b>2008</b> , 1, 403-411	10	45
259	Regulating coordination number in atomically dispersed Pt species on defect-rich graphene for n-butane dehydrogenation reaction. <i>Nature Communications</i> , <b>2021</b> , 12, 2664	17.4	44
258	Promotion of the Inactive Iron Sulfide to an Efficient Hydrodesulfurization Catalyst. <i>ACS Catalysis</i> , <b>2017</b> , 7, 4805-4816	13.1	43
257	Coverage dependent water dissociative adsorption on Fe(110) from DFT computation. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 8811-21	3.6	43
256	A Versatile Bottom-up Assembly Approach to Colloidal Spheres from Nanocrystals. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 6770-6773	3.6	43
255	Pressure-Induced Phase Engineering of Gold Nanostructures. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 15783-15790	16.4	43
254	Isolated Iron Single-Atomic Site-Catalyzed Chemoselective Transfer Hydrogenation of Nitroarenes to Arylamines. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 33819-33824	9.5	42
253	Surface Activation of Transition Metal Nanoparticles for Heterogeneous Catalysis: What We Can Learn from Molecular Dynamics. <i>ACS Catalysis</i> , <b>2018</b> , 8, 3365-3375	13.1	42
252	Fabricating Pd isolated single atom sites on C <sub>3</sub> N <sub>4</sub> /rGO for heterogenization of homogeneous catalysis. <i>Nano Research</i> , <b>2020</b> , 13, 947-951	10	41
251	Ultrathin Pt <sub>2</sub> N Nanowires: High-Performance Catalysts for Electrooxidation of Methanol and Formic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 77-81	8.3	41
250	A Bimetallic Zn/Fe Polyphthalocyanine-Derived Single-Atom Fe-N <sub>4</sub> Catalytic Site: A Superior Trifunctional Catalyst for Overall Water Splitting and Zn-Air Batteries. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 8750-8754	3.6	40
249	Fe <sub>1</sub> N <sub>4</sub> D <sub>1</sub> site with axial FeD coordination for highly selective CO <sub>2</sub> reduction over a wide potential range. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 3430-3437	35.4	40
248	High Coverage Water Aggregation and Dissociation on Fe(100): A Computational Analysis. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 26139-26154	3.8	39
247	PdAg bimetallic electrocatalyst for highly selective reduction of CO <sub>2</sub> with low COOH* formation energy and facile CO desorption. <i>Nano Research</i> , <b>2019</b> , 12, 2866-2871	10	38
246	Enhanced Photocatalytic Properties of SnO <sub>2</sub> Nanocrystals with Decreased Size for ppb-level Acetaldehyde Decomposition. <i>ChemCatChem</i> , <b>2011</b> , 3, 371-377	5.2	38
245	Template-Free Synthesis and Characterization of Single-Phase Voided Poly(o-anisidine) and Polyaniline Colloidal Spheres. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 5773-5778	9.6	37



244	Two-dimensional SnO <sub>2</sub> /graphene heterostructures for highly reversible electrochemical lithium storage. <i>Science China Materials</i> , <b>2018</b> , 61, 1527-1535	7.1	35
243	Semiconductor noble metal hybrid nanomaterials with controlled structures. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 1587-1590	13	35
242	Pd nanocrystals with single-, double-, and triple-cavities: facile synthesis and tunable plasmonic properties. <i>Chemical Science</i> , <b>2011</b> , 2, 2392	9.4	35
241	A Seed-Based Diffusion Route to Monodisperse Intermetallic CuAu Nanocrystals. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 2979-2983	3.6	35
240	Surface structure and stability of MoS <sub>x</sub> model clusters. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 18491-94	3.4	35
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