

Li Rong Zheng

List of Publications by Year in Descending Order

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

353
papers

29,294
citations

88
h-index

163
g-index

366
ext. papers

38,007
ext. citations

12.2
avg, IF

7.57
L-index

#	Paper	IF	Citations
353	Deeply self-reconstructing CoFe(H ₃ O)(PO ₄) ₂ to low-crystalline Fe _{0.5} Co _{0.5} OOH with Fe ³⁺ and Fe ³⁺ motifs for oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2022 , 304, 120986	21.8	8
352	Spatial porosity design of Fe-N-C catalysts for high power density PEM fuel cells and detection of water saturation of the catalyst layer by a microwave method. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 7764-7772	13	4
351	Oxygen vacancy content drives self-reduction and anti-thermal quenching. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 4317-4326	7.1	0
350	Platinum nanoclusters by atomic layer deposition on three dimensional TiO ₂ nanotube array for efficient hydrogen evolution. <i>Materials Today Energy</i> , 2022 , 101042	7	0
349	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
348	Rational design of ultrahigh loading metal single-atoms (Co, Ni, Mo) anchored on in-situ pre-crosslinked guar gum derived N-doped carbon aerogel for efficient overall water splitting. <i>Chemical Engineering Journal</i> , 2021 , 410, 128359	14.7	18
347	Electrochemical Construction of Low-Crystalline CoOOH Nanosheets with Short-Range Ordered Grains to Improve Oxygen Evolution Activity. <i>ACS Catalysis</i> , 2021 , 11, 6104-6112	13.1	26
346	Defect-Induced Self-Reduction and Anti-Thermal Quenching in NaZn(PO ₃) ₃ :Mn ²⁺ Red Phosphor. <i>Advanced Optical Materials</i> , 2021 , 9, 2100870	8.1	15
345	Engineering local coordination environment of atomically dispersed platinum catalyst via lattice distortion of support for efficient hydrogen evolution reaction. <i>Materials Today Energy</i> , 2021 , 20, 100653	7	9
344	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
343	Self-assembled iron-containing mordenite monolith for carbon dioxide sieving. <i>Science</i> , 2021 , 373, 315-320	39.3	45
342	3D N-doped ordered mesoporous carbon supported single-atom Fe-N-C catalysts with superior performance for oxygen reduction reaction and zinc-air battery. <i>Applied Catalysis B: Environmental</i> , 2021 , 280, 119411	21.8	127
341	Anomalous self-optimization of sulfate ions for boosted oxygen evolution reaction. <i>Science Bulletin</i> , 2021 , 66, 553-561	10.6	13
340	Operando X-ray spectroscopy visualizing the chameleon-like structural reconstruction on an oxygen evolution electrocatalyst. <i>Energy and Environmental Science</i> , 2021 , 14, 906-915	35.4	37
339	Unraveling the real active sites of an amorphous silica/alumina-supported nickel catalyst for highly efficient ethylene oligomerization. <i>Catalysis Science and Technology</i> , 2021 , 11, 1510-1518	5.5	7
338	Coordination Number Regulation of Molybdenum Single-Atom Nanozyme Peroxidase-like Specificity. <i>CheM</i> , 2021 , 7, 436-449	16.2	62
337	Engineering defect-rich Fe-doped NiO coupled Ni cluster nanotube arrays with excellent oxygen evolution activity. <i>Applied Catalysis B: Environmental</i> , 2021 , 285, 119809	21.8	45

- 336 Highly durable Cu₂N active sites towards efficient oxygen reduction for zinc-air battery: Carbon matrix effect, reaction mechanism and pathways. *Journal of Alloys and Compounds*, **2021**, 857, 158321 5.7 6
- 335 Self-supported bifunctional electrocatalysts with Ni nanoparticles encapsulated in vertical N-doped carbon nanotube for efficient overall water splitting. *Chemical Engineering Journal*, **2021**, 413, 127531 14.7 14
- 334 Direct synthesis of 1T-phase MoS₂ nanosheets with abundant sulfur-vacancies through (CH₃)₄N⁺ cation-intercalation for the hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2021**, 9, 13996-14005 13.4 5
- 333 A rational design of an efficient counter electrode with the Co/Co₁P₁N₃ atomic interface for promoting catalytic performance. *Materials Chemistry Frontiers*, **2021**, 5, 3085-3092 7.8 5
- 332 N-Induced Electron Transfer Effect on Low-Temperature Activation of Nitrogen for Ammonia Synthesis over Co-Based Catalysts. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 1529-1539 8.3 7
- 331 Quasi-double-star nickel and iron active sites for high-efficiency carbon dioxide electroreduction. *Energy and Environmental Science*, **2021**, 14, 4847-4857 35.4 6
- 330 A low-valent cobalt oxide co-catalyst to boost photocatalytic water oxidation via enhanced hole-capturing ability. *Journal of Materials Chemistry A*, **2021**, 9, 14786-14792 13 9
- 329 Coordinately unsaturated O₂Cu₂ sites promote the reactivity of Pt/TiO₂ catalysts in the solvent-free oxidation of n-octanol. *Catalysis Science and Technology*, **2021**, 11, 4898-4910 5.5 4
- 328 Air atmospheric photocatalytic oxidation by ultrathin C,N-TiO₂ nanosheets. *Green Chemistry*, **2021**, 23, 1165-1170 10 5
- 327 The study of surface species and structures of oxide-derived copper catalysts for electrochemical CO reduction.. *Chemical Science*, **2021**, 12, 5938-5943 9.4 7
- 326 Monomeric vanadium oxide: a very efficient species for promoting aerobic oxidative dehydrogenation of N-heterocycles. *New Journal of Chemistry*, **2021**, 45, 431-437 3.6 0
- 325 Atomically Dispersed Fe₂S₂ Heteroatom (N, S) Bridge Sites Anchored on Carbon Nanosheets for Promoting Oxygen Reduction Reaction. *ACS Energy Letters*, **2021**, 6, 379-386 20.1 49
- 324 Mitigating the P₂D₂ transition and Na⁺/vacancy ordering in Na₂/3Ni₁/3Mn₂/3O₂ by anion/cation dual-doping for fast and stable Na⁺ insertion/extraction. *Journal of Materials Chemistry A*, **2021**, 9, 10803-10819 13.1 9
- 323 A novel Fe/N/C electrocatalyst prepared from a carbon-supported iron(ii) complex of macrocyclic ligands for oxygen reduction reaction.. *RSC Advances*, **2021**, 11, 8437-8443 3.7 1
- 322 Identifying the Activity Origin of a Cobalt Single-Atom Catalyst for Hydrogen Evolution Using Supervised Learning. *Advanced Functional Materials*, **2021**, 31, 2100547 15.6 33
- 321 Construction of Dual-Active-Site Copper Catalyst Containing both Cu₂N and Cu₂N Sites. *Small*, **2021**, 17, e2006834 11 14
- 320 Sustainable production of benzene from lignin. *Nature Communications*, **2021**, 12, 4534 17.4 19
- 319 Two Types of Single-Atom FeN₄ and FeN₅ Electrocatalytic Active Centers on N-Doped Carbon Driving High Performance of the SA-Fe-NC Oxygen Reduction Reaction Catalyst. *Chemistry of Materials*, **2021**, 33, 5542-5554 9.6 10

318	Electrocatalytic upcycling of polyethylene terephthalate to commodity chemicals and H fuel. <i>Nature Communications</i> , 2021 , 12, 4679	17.4	41
317	Hydrogen Passivation of M-N-C (M = Fe, Co) Catalysts for Storage Stability and ORR Activity Improvements. <i>Advanced Materials</i> , 2021 , 33, e2103600	24	22
316	Interfacial Bifunctional Effect Promoted Non-Noble Cu/FeyMgOx Catalysts for Selective Hydrogenation of Acetylene. <i>ACS Catalysis</i> , 2021 , 11, 11117-11128	13.1	2
315	Hydrothermally modified nanosheet ZSM-5 with MnOx nanoparticles and its high MTP performance. <i>Microporous and Mesoporous Materials</i> , 2021 , 326, 111374	5.3	2
314	Dual active site tandem catalysis of metal hydroxyl oxides and single atoms for boosting oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120451	21.8	13
313	Copper single-atom catalysts with photothermal performance and enhanced nanozyme activity for bacteria-infected wound therapy. <i>Bioactive Materials</i> , 2021 , 6, 4389-4401	16.7	45
312	Integration of single Co atoms and Ru nanoclusters boosts the cathodic performance of nitrogen-doped 3D graphene in lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10747-10757	13	13
311	Propelling polysulfide redox conversion by d-band modulation for high sulfur loading and low temperature lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18526-18536	13	8
310	Photocatalytic carbon dioxide reduction coupled with benzylamine oxidation over Zn-Bi ₂ WO ₆ microflowers. <i>Green Chemistry</i> , 2021 , 23, 2913-2917	10	5
309	Constructing single Cu ₃ sites for CO ₂ electrochemical reduction over a wide potential range. <i>Green Chemistry</i> , 2021 , 23, 5461-5466	10	5
308	N-Bridged Co ₂ Ni: new bimetallic sites for promoting electrochemical CO ₂ reduction. <i>Energy and Environmental Science</i> , 2021 , 14, 3019-3028	35.4	38
307	Silica nanoparticles alleviate mercury toxicity via immobilization and inactivation of Hg(II) in soybean (<i>Glycine max</i>). <i>Environmental Science: Nano</i> , 2020 , 7, 1807-1817	7.1	24
306	Electrocatalytically Active Fe-(O-C) Single-Atom Sites for Efficient Reduction of Nitrogen to Ammonia. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13423-13429	16.4	71
305	Removing the barrier to water dissociation on single-atom Pt sites decorated with a CoP mesoporous nanosheet array to achieve improved hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11246-11254	13	22
304	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
303	Single Atoms Anchored on Cobalt-Based Catalysts Derived from Hydrogels Containing Phthalocyanine toward the Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 8338-8347	8.3	7
302	Improved photocatalytic performance of metal-organic frameworks for CO conversion by ligand modification. <i>Chemical Communications</i> , 2020 , 56, 7637-7640	5.8	11
301	Electrocatalytically Active Fe-(O-C) ₂ Single-Atom Sites for Efficient Reduction of Nitrogen to Ammonia. <i>Angewandte Chemie</i> , 2020 , 132, 13525-13531	3.6	14

300	NiMn-Cl Layered Double Hydroxide/Carbon Nanotube Networks for High-Performance Chloride Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4559-4568	6.1	11
299	Carbon black-supported FM ₁ N ₁ (FM = Fe, Co, and Ni) single-atom catalysts synthesized by the self-catalysis of oxygen-coordinated ferrous metal atoms. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13166-13172	13.1	12
298	Atomically Dispersed Fe-N Modified with Precisely Located S for Highly Efficient Oxygen Reduction. <i>Nano-Micro Letters</i> , 2020 , 12, 116	19.5	38
297	Engineering unsymmetrically coordinated Cu-SN single atom sites with enhanced oxygen reduction activity. <i>Nature Communications</i> , 2020 , 11, 3049	17.4	210
296	Dopamine polymer derived isolated single-atom site metals/N-doped porous carbon for benzene oxidation. <i>Chemical Communications</i> , 2020 , 56, 8916-8919	5.8	8
295	Creation of CuOx/ZSM-5 zeolite complex: healing defect sites and boosting acidic stability and catalytic activity. <i>Catalysis Science and Technology</i> , 2020 , 10, 4981-4989	5.5	1
294	High-performance, long lifetime chloride ion battery using a NiFe ₂ layered double hydroxide cathode. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12548-12555	13	12
293	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
292	Highly Efficient Electroreduction of CO to C2+ Alcohols on Heterogeneous Dual Active Sites. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16459-16464	16.4	61
291	CO controls the oriented growth of metal-organic framework with highly accessible active sites. <i>Nature Communications</i> , 2020 , 11, 1431	17.4	26
290	Fabricating Pd isolated single atom sites on C3N4/rGO for heterogenization of homogeneous catalysis. <i>Nano Research</i> , 2020 , 13, 947-951	10	41
289	NiFe saponite as a new anode material for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6539-6545	13	3
288	Potential-Dependent Phase Transition and Mo-Enriched Surface Reconstruction of FeCoOOH in a Heterostructured Co-Mo2C Precatalyst Enable Water Oxidation. <i>ACS Catalysis</i> , 2020 , 10, 4411-4419	13.1	88
287	Fabrication of NH2-MIL-125 nanocrystals for high performance photocatalytic oxidation. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 2823-2830	5.8	18
286	Immobilization of mercury by nano-elemental selenium and the underlying mechanisms in hydroponic-cultured garlic plant. <i>Environmental Science: Nano</i> , 2020 , 7, 1115-1125	7.1	12
285	A new concept analogous to homogeneous catalysis to construct in-situ regenerative electrodes for long-term oxygen evolution reaction. <i>Nano Energy</i> , 2020 , 76, 105115	17.1	9
284	Laser Irradiation in Liquid to Release Cobalt Single-Atom Sites for Efficient Electrocatalytic N2 Reduction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6079-6086	6.1	9
283	Proton transport enabled by a field-induced metallic state in a semiconductor heterostructure. <i>Science</i> , 2020 , 369, 184-188	33.3	22

282	Multi-shelled CuO microboxes for carbon dioxide reduction to ethylene. <i>Nano Research</i> , 2020 , 13, 768-774	16.2	31
281	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
280	Rare Earth Single-Atom Catalysts for Nitrogen and Carbon Dioxide Reduction. <i>ACS Nano</i> , 2020 , 14, 1093-1101	16.1	109
279	Sequential Synthesis and Active-Site Coordination Principle of Precious Metal Single-Atom Catalysts for Oxygen Reduction Reaction and PEM Fuel Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2000689	21.8	55
278	Charge redistribution within platinum-nitrogen coordination structure to boost hydrogen evolution. <i>Nano Energy</i> , 2020 , 73, 104739	17.1	27
277	Interstitial oxygen defect induced mechanoluminescence in KCa(PO ₃) ₃ Mn ²⁺ . <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6587-6594	7.1	10
276	Delocalized electron effect on single metal sites in ultrathin conjugated microporous polymer nanosheets for boosting CO cycloaddition. <i>Science Advances</i> , 2020 , 6, eaaz4824	14.3	38
275	Construction of tetrahedral CoO vacancies for activating the high oxygen evolution activity of CoO porous nanosheet arrays. <i>Nanoscale</i> , 2020 , 12, 11079-11087	7.7	20
274	Oxygen-Reconstituted Active Species of Single-Atom Cu Catalysts for Oxygen Reduction Reaction. <i>Research</i> , 2020 , 2020, 7593023	7.8	8
273	Atomically dispersed ruthenium sites on whisker-like secondary microstructure of porous carbon host toward highly efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3203-3210	13	14
272	Ultralong-Life Chloride Ion Batteries Achieved by the Synergistic Contribution of Intralayer Metals in Layered Double Hydroxides. <i>Advanced Functional Materials</i> , 2020 , 30, 1907448	15.6	15
271	A sacrificial Zn strategy enables anchoring of metal single atoms on the exposed surface of holey 2D molybdenum carbide nanosheets for efficient electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3071-3082	13	38
270	Regulating the Coordination Environment of MOF-Templated Single-Atom Nickel Electrocatalysts for Boosting CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2705-2709	16.4	227
269	Nitrogen-Stabilized Low-Valent Ni Motifs for Efficient CO ₂ Electrocatalysis. <i>ACS Catalysis</i> , 2020 , 10, 1086-1093	16.1	45
268	Iron-regulated NiPS for enhanced oxygen evolution efficiency. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23580-23589	13	8
267	Dynamic evolution of isolated RuBeP atomic interface sites for promoting the electrochemical hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22607-22612	13	16
266	BiOCl nanosheets with periodic nanochannels for high-efficiency photooxidation. <i>Nano Energy</i> , 2020 , 78, 105340	17.1	21
265	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

264	Improved catalytic performance of Co-MOF-74 by nanostructure construction. <i>Green Chemistry</i> , 2020 , 22, 5995-6000	10	12
263	Hierarchically macro-meso-microporous metal-organic framework for photocatalytic oxidation. <i>Chemical Communications</i> , 2020 , 56, 10754-10757	5.8	6
262	Copper Isolated Sites on N-Doped Carbon Nanoframes for Efficient Oxygen Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14030-14038	8.3	15
261	A Mn-N single-atom catalyst embedded in graphitic carbon nitride for efficient CO electroreduction. <i>Nature Communications</i> , 2020 , 11, 4341	17.4	96
260	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
259	Effective removal of U(VI) and Eu(III) by carboxyl functionalized MXene nanosheets. <i>Journal of Hazardous Materials</i> , 2020 , 396, 122731	12.8	75
258	Boron-doped CuO nanobundles for electroreduction of carbon dioxide to ethylene. <i>Green Chemistry</i> , 2020 , 22, 2750-2754	10	14
257	Physically Adsorbed Metal Ions in Porous Supports as Electrocatalysts for Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2020 , 30, 1909889	15.6	23
256	Carbon dioxide electroreduction to C products over copper-cuprous oxide derived from electrosynthesized copper complex. <i>Nature Communications</i> , 2019 , 10, 3851	17.4	159
255	Synchrotron X-ray Absorption Spectroscopy Study of Local Structure in Al-Doped BiFeO Powders. <i>Nanoscale Research Letters</i> , 2019 , 14, 137	5	16
254	Regulating the coordination structure of single-atom Fe-NC catalytic sites for benzene oxidation. <i>Nature Communications</i> , 2019 , 10, 4290	17.4	173
253	Plant species-dependent transformation and translocation of ceria nanoparticles. <i>Environmental Science: Nano</i> , 2019 , 6, 60-67	7.1	32
252	Fabrication of 2D metal-organic framework nanosheets with tailorable thickness using bio-based surfactants and their application in catalysis. <i>Green Chemistry</i> , 2019 , 21, 54-58	10	48
251	An 2D Polymer Used As Ingredient of Fe/N/C Composite Towards Oxygen Reduction Catalyst In Acidic Medium.. <i>ChemistrySelect</i> , 2019 , 4, 884-891	1.8	2
250	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
249	Activity enhancement of Pt/MnOx catalyst by novel MnO2 for low-temperature CO oxidation: study of the CO2 competitive adsorption and active oxygen species. <i>Catalysis Science and Technology</i> , 2019 , 9, 347-354	5.5	26
248	General Method for Synthesis Transition-Metal Phosphide/Nitrogen and Phosphide Doped Carbon Materials with Yolk-Shell Structure for Oxygen Reduction Reaction. <i>ChemCatChem</i> , 2019 , 11, 1722-1731	5.2	17
247	A Single-Atom Nanozyme for Wound Disinfection Applications. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4911-4916	16.4	335

246	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
245	Achieving efficient and robust catalytic reforming on dual-sites of Cu species. <i>Chemical Science</i> , 2019 , 10, 2578-2584	9.4	24
244	Bacillus subtilis causes dissolution of ceria nanoparticles at the nanoBio interface. <i>Environmental Science: Nano</i> , 2019 , 6, 216-223	7.1	11
243	Enhanced CO electroreduction interaction of dangling S bonds and Co sites in cobalt phthalocyanine/ZnInS hybrids. <i>Chemical Science</i> , 2019 , 10, 1659-1663	9.4	31
242	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
241	Amorphous Cobalt Iron Borate Grown on Carbon Paper as a Precatalyst for Water Oxidation. <i>ChemSusChem</i> , 2019 , 12, 3524-3531	8.3	16
240	Highly Mesoporous Ru-MIL-125-NH ₂ Produced by Supercritical Fluid for Efficient Photocatalytic Hydrogen Production. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4964-4970	6.1	23
239	Coordination mode engineering in stacked-nanosheet metal-organic frameworks to enhance catalytic reactivity and structural robustness. <i>Nature Communications</i> , 2019 , 10, 2779	17.4	52
238	Discovery of a new intercalation-type anode for high-performance sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15371-15377	13	12
237	Insights into the role of active site density in the fuel cell performance of Co-N-C catalysts. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117849	21.8	58
236	Activating Layered Double Hydroxide with Multivacancies by Memory Effect for Energy-Efficient Hydrogen Production at Neutral pH. <i>ACS Energy Letters</i> , 2019 , 4, 1412-1418	20.1	64
235	Defect Engineering in Two Common Types of Dielectric Materials for Electromagnetic Absorption Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1901236	15.6	285
234	Coexistence of self-reduction from Mn ⁴⁺ to Mn ²⁺ and elasto-mechanoluminescence in diphase KZn(PO ₃) ₃ :Mn ²⁺ . <i>Journal of Materials Chemistry C</i> , 2019 , 7, 7096-7103	7.1	26
233	Nitrogen-coordinated cobalt nanocrystals for oxidative dehydrogenation and hydrogenation of N-heterocycles. <i>Chemical Science</i> , 2019 , 10, 5345-5352	9.4	39
232	Enhanced CO ₂ electroreduction performance over Cl-modified metal catalysts. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12420-12425	13	24
231	A highly efficient alkaline HER CoMo bimetallic carbide catalyst with an optimized Mo d-orbital electronic state. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12434-12439	13	32
230	Influence of Surface Charge on the Phytotoxicity, Transformation, and Translocation of CeO Nanoparticles in Cucumber Plants. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 16905-16913	9.5	22
229	Ultrathin Co ₃ O ₄ Nanosheets with Edge-Enriched {111} Planes as Efficient Catalysts for Lithium-Oxygen Batteries. <i>ACS Catalysis</i> , 2019 , 9, 3773-3782	13.1	45

228	Thermal Emitting Strategy to Synthesize Atomically Dispersed Pt Metal Sites from Bulk Pt Metal. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4505-4509	16.4	174
227	Effective Removal of Anionic Re(VII) by Surface-Modified TiCT MXene Nanocomposites: Implications for Tc(VII) Sequestration. <i>Environmental Science & Technology</i> , 2019 , 53, 3739-3747	10.3	94
226	Well-Dispersed Nickel- and Zinc-Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2019 , 31, e1807771	24	149
225	Rational Design of Holey 2D Nonlayered Transition Metal Carbide/Nitride Heterostructure Nanosheets for Highly Efficient Water Oxidation. <i>Advanced Energy Materials</i> , 2019 , 9, 1803768	21.8	143
224	Fe ₃ N/C electrocatalyst with dense active sites and efficient mass transport for high-performance proton exchange membrane fuel cells. <i>Nature Catalysis</i> , 2019 , 2, 259-268	36.5	580
223	Nitrogen-carbon layer coated nickel nanoparticles for efficient electrocatalytic reduction of carbon dioxide. <i>Nano Research</i> , 2019 , 12, 1167-1172	10	23
222	A general route via formamide condensation to prepare atomically dispersed metal-nitrogen-carbon electrocatalysts for energy technologies. <i>Energy and Environmental Science</i> , 2019 , 12, 1317-1325	35.4	181
221	New insights into the chemical forms of extremely high methylmercury in songbird feathers from a contaminated site. <i>Chemosphere</i> , 2019 , 225, 803-809	8.4	6
220	Cu Ni alloy nanoparticles embedded in a nitrogen-carbon network for efficient conversion of carbon dioxide. <i>Chemical Science</i> , 2019 , 10, 4491-4496	9.4	21
219	Pd Single-Atom Catalysts on Nitrogen-Doped Graphene for the Highly Selective Photothermal Hydrogenation of Acetylene to Ethylene. <i>Advanced Materials</i> , 2019 , 31, e1900509	24	164
218	The Role of Alkali Metal in MnO Catalyzed Ammonia-Selective Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6351-6356	16.4	65
217	Sputtered Cu-ZnO/Al ₂ O ₃ Bifunctional Catalyst with Ultra-Low Cu Content Boosting Dimethyl Ether Steam Reforming and Inhibiting Side Reactions. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 7085-7093	3.9	4
216	Boosting oxygen evolution of single-atomic ruthenium through electronic coupling with cobalt-iron layered double hydroxides. <i>Nature Communications</i> , 2019 , 10, 1711	17.4	271
215	Elucidating the mechanism of the structure-dependent enzymatic activity of Fe-N/C oxidase mimics. <i>Chemical Communications</i> , 2019 , 55, 5271-5274	5.8	51
214	Substrate Metabolism-Driven Assembly of High-Quality CdS Se Quantum Dots in Escherichia coli: Molecular Mechanisms and Bioimaging Application. <i>ACS Nano</i> , 2019 , 13, 5841-5851	16.7	27
213	2D MOF induced accessible and exclusive Co single sites for an efficient O-silylation of alcohols with silanes. <i>Chemical Communications</i> , 2019 , 55, 6563-6566	5.8	25
212	Twinned Tungsten Carbonitride Nanocrystals Boost Hydrogen Evolution Activity and Stability. <i>Small</i> , 2019 , 15, e1900248	11	44
211	Sorption mechanisms of lead on silicon-rich biochar in aqueous solution: Spectroscopic investigation. <i>Science of the Total Environment</i> , 2019 , 672, 572-582	10.2	50

210	Breaking the symmetry: Gradient in NiFe layered double hydroxide nanoarrays for efficient oxygen evolution. <i>Nano Energy</i> , 2019 , 60, 661-666	17.1	40
209	Enhancing the Catalytic Activity of CoO Nanosheets for Li-O Batteries by the Incorporation of Oxygen Vacancy with Hydrazine Hydrate Reduction. <i>Inorganic Chemistry</i> , 2019 , 58, 4989-4996	5.1	35
208	XAFS Studies of Fe ₃ O ₂ Fischer-Tropsch Catalyst During Activation in CO, H ₂ , and Synthesis Gas. <i>ChemCatChem</i> , 2019 , 11, 2206-2216	5.2	5
207	Aqueous CO Reduction with High Efficiency Using [Co(OH)] ⁺ -Supported Atomic Ir Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4669-4673	16.4	65
206	Adsorption of Eu(III) and Th(IV) on three-dimensional graphene-based macrostructure studied by spectroscopic investigation. <i>Environmental Pollution</i> , 2019 , 248, 82-89	9.3	34
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201	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
200	Ultrathin atomic Mn-decorated formamide-converted N-doped carbon for efficient oxygen reduction reaction. <i>Nanoscale</i> , 2019 , 11, 15900-15906	7.7	26
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188	Amorphous MoO nanosheets prepared by the reduction of crystalline MoO by Mo metal for LSPR and photothermal conversion. <i>Chemical Communications</i> , 2019 , 55, 12527-12530	5.8	21
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182	Pressure induced transformation and subsequent amorphization of monoclinic NbO and its effect on optical properties. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 105401	1.8	4
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