

Zheng Chen

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.

98
papers

5,046
citations

30
h-index

70
g-index

110
ext. papers

6,931
ext. citations

9.1
avg, IF

5.68
L-index

#	Paper	IF	Citations
98	Distinct Crystal-Facet-Dependent Behaviors for Single-Atom Palladium-on-Ceria Catalysts: Enhanced Stabilization and Catalytic Properties.. <i>Advanced Materials</i> , 2022 , e2107721	24	4
97	Achieving complete electrooxidation of ethanol by single atomic Rh decoration of Pt nanocubes.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2112109119 ^{11.5}	11.5	3
96	Tumor-derived PD1 and PD-L1 could promote hepatocellular carcinoma growth through autophagy induction in vitro.. <i>Biochemical and Biophysical Research Communications</i> , 2022 , 605, 82-89	3.4	1
95	Synergetic effect of nitrogen-doped carbon catalysts for high-efficiency electrochemical CO ₂ reduction. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1697-1702	11.3	1
94	A single-atom Cu-N catalyst eliminates oxygen interference for electrochemical sensing of hydrogen peroxide in a living animal brain.. <i>Chemical Science</i> , 2021 , 12, 15045-15053	9.4	3
93	Self-assembled multifunctional Fe ₃ O ₄ hierarchical microspheres: high-efficiency lithium-ion battery materials and hydrogenation catalysts. <i>Science China Materials</i> , 2021 , 64, 1058-1070	7.1	2
92	PNOX Expressed by B Cells in Cholangiocarcinoma Was Survival Related and LAIR2 Could Be a T Cell Exhaustion Biomarker in Tumor Microenvironment: Characterization of Immune Microenvironment Combining Single-Cell and Bulk Sequencing Technology. <i>Frontiers in Immunology</i> , 2021 , 12, 647209	8.4	4
91	Insight into the influence of doped oxygen on active sites of molybdenum sulfide materials in hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 11721-11730	6.7	1
90	High-Loading Single-Atomic-Site Silver Catalysts with an Ag ₁ Q ₂ N ₁ Structure Showing Superior Performance for Epoxidation of Styrene. <i>ACS Catalysis</i> , 2021 , 11, 4946-4954	13.1	13
89	Atomic Co/Ni dual sites with N/P-coordination as bifunctional oxygen electrocatalyst for rechargeable zinc-air batteries. <i>Nano Research</i> , 2021 , 14, 3482-3488	10	27
88	Atomically dispersed NiRu interface sites for high-efficiency pH-universal electrocatalysis of hydrogen evolution. <i>Nano Energy</i> , 2021 , 80, 105467	17.1	44
87	Understanding the dehydrogenation mechanism over iron nanoparticles catalysts based on density functional theory. <i>Chinese Chemical Letters</i> , 2021 , 32, 286-290	8.1	4
86	Manganese vacancy-confined single-atom Ag in cryptomelane nanorods for efficient Wacker oxidation of styrene derivatives. <i>Chemical Science</i> , 2021 , 12, 6099-6106	9.4	8
85	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
84	In Situ Growth of Ni-Based Metal-Organic Framework Nanosheets on Carbon Nanotube Films for Efficient Oxygen Evolution Reaction. <i>Inorganic Chemistry</i> , 2021 , 60, 3439-3446	5.1	7
83	Machine Learning for Building Immune Genetic Model in Hepatocellular Carcinoma Patients. <i>Journal of Oncology</i> , 2021 , 2021, 6676537	4.5	1
82	Anion-exchange-mediated internal electric field for boosting photogenerated carrier separation and utilization. <i>Nature Communications</i> , 2021 , 12, 4952	17.4	12

81	Br-Doped CuO Multilamellar Mesoporous Nanosheets with Oxygen Vacancies and Cetyltrimethyl Ammonium Cations Adsorption for Optimizing Intermediate Species and Their Adsorption Behaviors toward CO Electroreduction to Ethanol with a High Faradaic Efficiency. <i>Inorganic Chemistry</i> , 2021 , 60, 14371-14381	5.1	2
80	The surface modification of long carbon fiber reinforced polyether ether ketone with bioactive composite hydrogel for effective osteogenicity. <i>Materials Science and Engineering C</i> , 2021 , 130, 112451	8.3	1
79	Atomically dispersed gold anchored on carbon nitride nanosheets as effective catalyst for regioselective hydrosilylation of alkynes. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17885-17892	13	1
78	High-Performance Zinc-Air Batteries Based on Bifunctional Hierarchically Porous Nitrogen-Doped Carbon. <i>Small</i> , 2021 , e2105928	11	2
77	Back Cover: Optimized Self-Templating Synthesis Method for Highly Crystalline Hollow Cu ₂ O Nanoboxes (Small Methods 12/2020). <i>Small Methods</i> , 2020 , 4, 2070047	12.8	
76	Hepatoma cell-intrinsic TLR9 activation induces immune escape through PD-L1 upregulation in hepatocellular carcinoma. <i>Theranostics</i> , 2020 , 10, 6530-6543	12.1	11
75	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
74	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
73	Design of assembled composite of Mn ₃ O ₄ @Graphitic carbon porous nano-dandelions: A catalyst for Low Temperature selective catalytic reduction of NO _x with remarkable SO ₂ resistance. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118731	21.8	23
72	MOF derived high-density atomic platinum heterogeneous catalyst for C≡C bond activation. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1158-1163	7.8	4
71	Single-Atom Au ₁ N ₃ Site for Acetylene Hydrochlorination Reaction. <i>ACS Catalysis</i> , 2020 , 10, 1865-1870	13.1	41
70	Design Rules for Improving the Cycling Stability of High-Performance Donor-Acceptor-Type Electrochromic Polymers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7529-7538	9.5	13
69	Immune system-associated genes increase malignant progression and can be used to predict clinical outcome in patients with hepatocellular carcinoma. <i>International Journal of Oncology</i> , 2020 , 56, 1199-1211	4.4	8
68	Prognostic and immune regulating roles of YIF1B in Pan-Cancer: a potential target for both survival and therapy response evaluation. <i>Bioscience Reports</i> , 2020 , 40,	4.1	6
67	Titania supported synergistic palladium single atoms and nanoparticles for room temperature ketone and aldehydes hydrogenation. <i>Nature Communications</i> , 2020 , 11, 48	17.4	101
66	Tumor Derived SIGLEC Family Genes May Play Roles in Tumor Genesis, Progression, and Immune Microenvironment Regulation. <i>Frontiers in Oncology</i> , 2020 , 10, 586820	5.3	9
65	Association of intrinsic pathways with altered tumor immune infiltration in hepatocellular carcinoma: New targets for combining immune therapy. <i>Clinical and Translational Medicine</i> , 2020 , 10, e219	5.7	0
64	Reaction environment self-modification on low-coordination Ni ²⁺ octahedra atomic interface for superior electrocatalytic overall water splitting. <i>Nano Research</i> , 2020 , 13, 3068-3074	10	20

63	Atomic iron on mesoporous N-doped carbon to achieve dehydrogenation reaction at room temperature. <i>Nano Research</i> , 2020 , 13, 3075-3081	10	13
62	Optimized Self-Templating Synthesis Method for Highly Crystalline Hollow Cu ₂ O Nanoboxes. <i>Small Methods</i> , 2020 , 4, 2000521	12.8	5
61	In situ growth of MoSe ₂ nanosheets array on Mo foil: An efficient and durable hydrogen evolution electrocatalyst. <i>Materials Letters</i> , 2020 , 272, 127828	3.3	5
60	Regulating the coordination structure of single-atom Fe-NC catalytic sites for benzene oxidation. <i>Nature Communications</i> , 2019 , 10, 4290	17.4	173
59	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
58	Topological self-template directed synthesis of multi-shelled intermetallic NiGa hollow microspheres for the selective hydrogenation of alkyne. <i>Chemical Science</i> , 2019 , 10, 614-619	9.4	20
57	An oil/water separation nanofibrous membrane with a 3-D structure from the blending of PES and SPEEK. <i>High Performance Polymers</i> , 2019 , 31, 538-547	1.6	15
56	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
55	Determination, intercorrelation and intraindividual stability of five steroids in hair, saliva and urine among chinese college students. <i>Steroids</i> , 2019 , 149, 108418	2.8	14
54	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
53	Nitrogen-coordinated cobalt nanocrystals for oxidative dehydrogenation and hydrogenation of N-heterocycles. <i>Chemical Science</i> , 2019 , 10, 5345-5352	9.4	39
52	Selective hydrogenation of N-heterocyclic compounds over rhodium-copper bimetallic nanocrystals under ambient conditions. <i>Nano Research</i> , 2019 , 12, 1631-1634	10	14
51	Functionalization of Hollow Nanomaterials for Catalytic Applications: Nanoreactor Construction. <i>Advanced Materials</i> , 2019 , 31, e1800426	24	147
50	Construction of CoP/NiCoP Nanotadpoles Heterojunction Interface for Wide pH Hydrogen Evolution Electrocatalysis and Supercapacitor. <i>Advanced Energy Materials</i> , 2019 , 9, 1901213	21.8	160
49	High Dimensional Stability and Alcohol Resistance Aromatic Poly(aryl ether ketone) Polyelectrolyte Membrane Synthesis and Characterization. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1646-1656	6.1	19
48	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
47	Preparation of freestanding palladium nanosheets modified with gold nanoparticles at edges. <i>Nano Research</i> , 2018 , 11, 4142-4148	10	10
46	Photocatalytic hydrogenation of nitroarenes using Cu _{1.94} S-Zn _{0.23} Cd _{0.77} S heteronanorods. <i>Nano Research</i> , 2018 , 11, 3730-3738	10	17

45	Novel soluble carbazole-based poly(aryl ethers): Preparation, properties, and application for dispersing multiwalled carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46250	2.9	2
44	Highly proton conducting proton-exchange membranes based on fluorinated poly(arylene ether ketone)s with octasulfonated segments. <i>Journal of Polymer Science Part A</i> , 2018 , 56, 25-37	2.5	14
43	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
42	A Bimetallic Zn/Fe Polyphthalocyanine-Derived Single-Atom Fe-N4 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
41	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
40	Carbon nitride supported Fe cluster catalysts with superior performance for alkene epoxidation. <i>Nature Communications</i> , 2018 , 9, 2353	17.4	162
39	Correlations of hair level with salivary level in cortisol and cortisone. <i>Life Sciences</i> , 2018 , 193, 57-63	6.8	20
38	Single-Site Au Catalyst for Silane Oxidation with Water. <i>Advanced Materials</i> , 2018 , 30, 1704720	24	84
37	50 ppm of Pd dispersed on Ni(OH) ₂ nanosheets catalyzing semi-hydrogenation of acetylene with high activity and selectivity. <i>Nano Research</i> , 2018 , 11, 905-912	10	39
36	Synergistic effect of bimetallic PdAu nanocrystals on oxidative alkyne homocoupling. <i>Chemical Communications</i> , 2018 , 54, 13155-13158	5.8	18
35	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
34	Allele-defined genome of the autopolyploid sugarcane <i>Saccharum spontaneum</i> L. <i>Nature Genetics</i> , 2018 , 50, 1565-1573	36.3	229
33	An Equal-Strain Analytical Solution for the Radial Consolidation of Unsaturated Soils by Vertical Drains considering Drain Resistance. <i>Advances in Civil Engineering</i> , 2018 , 2018, 1-9	1.3	6
32	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
31	Intraindividual stability of cortisol and cortisone and the ratio of cortisol to cortisone in saliva, urine and hair. <i>Steroids</i> , 2017 , 118, 61-67	2.8	26
30	Single Ni sites distributed on N-doped carbon for selective hydrogenation of acetylene. <i>Chemical Communications</i> , 2017 , 53, 11568-11571	5.8	58
29	Mitochondrial Dysfunction Causes Oxidative Stress and Tapetal Apoptosis in Chemical Hybridization Reagent-Induced Male Sterility in Wheat. <i>Frontiers in Plant Science</i> , 2017 , 8, 2217	6.2	12
28	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

27	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
26	Synthesis and properties of perfluorocarbon chain terminated poly(ether sulfone). <i>RSC Advances</i> , 2016 , 6, 93539-93545	3.7	1
25	Pd-dispersed CuS hetero-nanoplates for selective hydrogenation of phenylacetylene. <i>Nano Research</i> , 2016 , 9, 1209-1219	10	25
24	Controlled one-pot synthesis of RuCu nanocages and Cu@Ru nanocrystals for the regioselective hydrogenation of quinoline. <i>Nano Research</i> , 2016 , 9, 2632-2640	10	40
23	Simultaneous HPLC-APCI-MS/MS quantification of endogenous cannabinoids and glucocorticoids in hair. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016 , 1028, 1-10	3.2	19
22	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
21	Synthesis and properties of sulfonated poly(arylene ether ketone sulfone) copolymer. <i>High Performance Polymers</i> , 2016 , 28, 315-321	1.6	13
20	Elevated Hair Cortisol Levels among Heroin Addicts on Current Methadone Maintenance Compared to Controls. <i>PLoS ONE</i> , 2016 , 11, e0150729	3.7	10
19	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
18	A wormhole-like porous carbon/magnetic particles composite as an efficient broadband electromagnetic wave absorber. <i>Nanoscale</i> , 2016 , 8, 8899-909	7.7	266
17	Controllable synthesis of PtCu nanocrystals and their tunable catalytic properties. <i>CrystEngComm</i> , 2016 , 18, 3764-3767	3.3	6
16	Heterometallic rare-earth metal complexes with imino-functionalized 8-hydroxyquinolyl ligands: synthesis, characterization and catalytic activity towards hydrophosphinylation of trans-β-hydroalkene. <i>New Journal of Chemistry</i> , 2015 , 39, 7626-7632	3.6	7
15	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
14	Multilayer hexagonal silicon forming in slit nanopore. <i>Scientific Reports</i> , 2015 , 5, 14792	4.9	6
13	Determination of endogenous corticosterone in rodent's blood, brain and hair with LC-APCI-MS/MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015 , 1002, 267-76	3.2	30
12	Comparative studies of mitochondrial proteomics reveal an intimate protein network of male sterility in wheat (<i>Triticum aestivum</i> L.). <i>Journal of Experimental Botany</i> , 2015 , 66, 6191-203	7	37
11	Bimetallic Pd-Cu nanocrystals and their tunable catalytic properties. <i>Chemical Communications</i> , 2014 , 50, 4588-91	5.8	66
10	Design and preparation of graphene/poly(ether ether ketone) composites with excellent electrical conductivity. <i>Journal of Materials Science</i> , 2014 , 49, 2372-2382	4.3	36

9	Rare-earth metal amido complexes supported by bridged bis(Ediketiminato) ligand as efficient catalysts for hydrophosphonylation of aldehydes and ketones. <i>Science China Chemistry</i> , 2013 , 56, 329-336	7.9	13
8	Compensation length of two-dimensional chloride diffusion in concrete using a boundary element model. <i>Acta Mechanica</i> , 2013 , 224, 123-137	2.1	7
7	High efficiency bulk heterojunction organic solar cell by using high conductivity modified PEDOT: PSS as a buffer layer. <i>Optoelectronics Letters</i> , 2012 , 8, 336-339	0.7	
6	Effect of ageing on fatigue properties of asphalt. <i>Central South University</i> , 2008 , 15, 111-114		7
5	Compressible flow equations based on moving coordinates determined by the wave speed. <i>International Journal for Numerical Methods in Fluids</i> , 2007 , 53, 149-174	1.9	1
4	Organic light-emitting devices based on new rare earth complex Tb(p-CIBA)3phen. <i>Optoelectronics Letters</i> , 2006 , 2, 403-405	0.7	1
3	Biomass-assisted approach for large-scale construction of multi-functional isolated single-atom site catalysts. <i>Nano Research</i> , 1	10	0
2	AuPt bimetallic nanoalloys supported on SBA-15: A superior catalyst for quinoline selective hydrogenation in water. <i>Nano Research</i> , 1	10	7
1	Insight into sulfur and iron effect of binary nickel-iron sulfide on oxygen evolution reaction. <i>Nano Research</i> , 1	10	0