

Zheng Chen

List of Publications by Year in descending order

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106
papers

8,612
citations

101384

36
h-index

45213

90
g-index

110
all docs

110
docs citations

110
times ranked

10350
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	6.6	1,556
2	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO ₂ . <i>Nature Chemistry</i> , 2019, 11, 222-228.	6.6	571
3	MXene (Ti ₃ C ₂) Vacancy-Confined Single-Atom Catalyst for Efficient Functionalization of CO ₂ . <i>Journal of the American Chemical Society</i> , 2019, 141, 4086-4093.	6.6	479
4	Allele-defined genome of the autopolyploid sugarcane <i>Saccharum spontaneum</i> L.. <i>Nature Genetics</i> , 2018, 50, 1565-1573.	9.4	463
5	A Bimetallic Zn/Fe Polyphthalocyanine-Derived Single-Atom Fe ₄ Catalytic Site: A Superior Trifunctional Catalyst for Overall Water Splitting and Zn-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8614-8618.	7.2	455
6	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.	6.6	452
7	Regulating the coordination structure of single-atom Fe-N _x C _y catalytic sites for benzene oxidation. <i>Nature Communications</i> , 2019, 10, 4290.	5.8	326
8	A wormhole-like porous carbon/magnetic particles composite as an efficient broadband electromagnetic wave absorber. <i>Nanoscale</i> , 2016, 8, 8899-8909.	2.8	310
9	Carbon nitride supported Fe ₂ cluster catalysts with superior performance for alkene epoxidation. <i>Nature Communications</i> , 2018, 9, 2353.	5.8	278
10	Construction of CoP/NiCoP Nanotadpoles Heterojunction Interface for Wide pH Hydrogen Evolution Electrocatalysis and Supercapacitor. <i>Advanced Energy Materials</i> , 2019, 9, 1901213.	10.2	275
11	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.	16.1	273
12	Functionalization of Hollow Nanomaterials for Catalytic Applications: Nanoreactor Construction. <i>Advanced Materials</i> , 2019, 31, e1800426.	11.1	239
13	Titania supported synergistic palladium single atoms and nanoparticles for room temperature ketone and aldehydes hydrogenation. <i>Nature Communications</i> , 2020, 11, 48.	5.8	223
14	Porphyrin-like Fe-N ₄ sites with sulfur adjustment on hierarchical porous carbon for different rate-determining steps in oxygen reduction reaction. <i>Nano Research</i> , 2018, 11, 6260-6269.	5.8	118
15	Atomically dispersed Ni-Ru-P interface sites for high-efficiency pH-universal electrocatalysis of hydrogen evolution. <i>Nano Energy</i> , 2021, 80, 105467.	8.2	114
16	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.	5.8	113
17	Single-Site Au ^I Catalyst for Silane Oxidation with Water. <i>Advanced Materials</i> , 2018, 30, 1704720.	11.1	112
18	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.	5.8	96

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19	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.	7.2	93
20	Single Ni sites distributed on N-doped carbon for selective hydrogenation of acetylene. <i>Chemical Communications</i> , 2017, 53, 11568-11571.	2.2	88
21	Distinct Crystal-Facet-Dependent Behaviors for Single-Atom Palladium-On-Ceria Catalysts: Enhanced Stabilization and Catalytic Properties. <i>Advanced Materials</i> , 2022, 34, e2107721.	11.1	78
22	Single-Atom Au ^I -N ₃ Site for Acetylene Hydrochlorination Reaction. <i>ACS Catalysis</i> , 2020, 10, 1865-1870.	5.5	76
23	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.	4.0	71
24	Bimetallic Pd-Cu nanocrystals and their tunable catalytic properties. <i>Chemical Communications</i> , 2014, 50, 4588.	2.2	68
25	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.	5.8	64
26	High-Loading Single-Atomic-Site Silver Catalysts with an Ag ₁ -C ₂ N ₁ Structure Showing Superior Performance for Epoxidation of Styrene. <i>ACS Catalysis</i> , 2021, 11, 4946-4954.	5.5	62
27	Nitrogen-coordinated cobalt nanocrystals for oxidative dehydrogenation and hydrogenation of N-heterocycles. <i>Chemical Science</i> , 2019, 10, 5345-5352.	3.7	60
28	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, 6191-6203.	2.4	59
29	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.	1.6	51
30	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.	5.8	49
31	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.	5.8	48
32	Design and preparation of graphene/poly(ether ether ketone) composites with excellent electrical conductivity. <i>Journal of Materials Science</i> , 2014, 49, 2372-2382.	1.7	47
33	Anion-exchange-mediated internal electric field for boosting photogenerated carrier separation and utilization. <i>Nature Communications</i> , 2021, 12, 4952.	5.8	45
34	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.	10.8	41
35	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.	0.8	40
36	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.	3.3	40

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37	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, 267-276.	1.2	38
38	A single-atom Cu ₂ catalyst eliminates oxygen interference for electrochemical sensing of hydrogen peroxide in a living animal brain. <i>Chemical Science</i> , 2021, 12, 15045-15053.	3.7	36
39	Pd-dispersed CuS hetero-nanoplates for selective hydrogenation of phenylacetylene. <i>Nano Research</i> , 2016, 9, 1209-1219.	5.8	35
40	Synergetic Function of the Single-Atom Ru ₄ Site and Ru Nanoparticles for Hydrogen Production in a Wide pH Range and Seawater Electrolysis. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15250-15258.	4.0	35
41	Topological self-template directed synthesis of multi-shelled intermetallic Ni ₃ Ga hollow microspheres for the selective hydrogenation of alkyne. <i>Chemical Science</i> , 2019, 10, 614-619.	3.7	31
42	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.	2.5	31
43	Hepatoma cell-intrinsic TLR9 activation induces immune escape through PD-L1 upregulation in hepatocellular carcinoma. <i>Theranostics</i> , 2020, 10, 6530-6543.	4.6	31
44	Correlations of hair level with salivary level in cortisol and cortisone. <i>Life Sciences</i> , 2018, 193, 57-63.	2.0	30
45	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.	1.2	28
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.	5.8	28
47	Insight into sulfur and iron effect of binary nickel-iron sulfide on oxygen evolution reaction. <i>Nano Research</i> , 2022, 15, 1901-1908.	5.8	28
48	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.	5.8	27
49	Synergistic effect of bimetallic PdAu nanocrystals on oxidative alkyne homocoupling. <i>Chemical Communications</i> , 2018, 54, 13155-13158.	2.2	26
50	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.	4.0	26
51	PNOC 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.	2.2	25
52	Nano PdAu Bimetallic Alloy as an Effective Catalyst for the Buchwald-Hartwig Reaction. <i>Chemistry - an Asian Journal</i> , 2016, 11, 351-355.	1.7	23
53	Atomic iron on mesoporous N-doped carbon to achieve dehydrogenation reaction at room temperature. <i>Nano Research</i> , 2020, 13, 3075-3081.	5.8	23
54	AuPt bimetallic nanoalloys supported on SBA-15: A superior catalyst for quinoline selective hydrogenation in water. <i>Nano Research</i> , 2022, 15, 1796-1802.	5.8	23

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55	High-Performance Zinc-Air Batteries Based on Bifunctional Hierarchically Porous Nitrogen-Doped Carbon. <i>Small</i> , 2022, 18, e2105928.	5.2	23
56	Highly proton conducting proton-exchange membranes based on fluorinated poly(arylene ether) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	2.5	22
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.	0.8	22
58	Determination, intercorrelation and intraindividual stability of five steroids in hair, saliva and urine among chinese college students. <i>Steroids</i> , 2019, 149, 108418.	0.8	22
59	Manganese vacancy-confined single-atom Ag in cryptomelane nanorods for efficient Wacker oxidation of styrene derivatives. <i>Chemical Science</i> , 2021, 12, 6099-6106.	3.7	22
60	Biomass-assisted approach for large-scale construction of multi-functional isolated single-atom site catalysts. <i>Nano Research</i> , 2022, 15, 3980-3990.	5.8	20
61	PARG inhibition limits HCC progression and potentiates the efficacy of immune checkpoint therapy. <i>Journal of Hepatology</i> , 2022, 77, 140-151.	1.8	20
62	MOF derived high-density atomic platinum heterogeneous catalyst for C-H bond activation. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1158-1163.	3.2	19
63	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.	1.9	19
64	Selective hydrogenation of N-heterocyclic compounds over rhodium-copper bimetallic nanocrystals under ambient conditions. <i>Nano Research</i> , 2019, 12, 1631-1634.	5.8	18
65	Dopamine polymer derived isolated single-atom site metals/N-doped porous carbon for benzene oxidation. <i>Chemical Communications</i> , 2020, 56, 8916-8919.	2.2	18
66	Synthesis and properties of sulfonated poly(arylene ether ketone sulfone) copolymer. <i>High Performance Polymers</i> , 2016, 28, 315-321.	0.8	17
67	Tumor Derived SIGLEC Family Genes May Play Roles in Tumor Genesis, Progression, and Immune Microenvironment Regulation. <i>Frontiers in Oncology</i> , 2020, 10, 586820.	1.3	17
68	Rare-earth metal amido complexes supported by bridged bis(η^2 -diketiminato) ligand as efficient catalysts for hydrophosphonylation of aldehydes and ketones. <i>Science China Chemistry</i> , 2013, 56, 329-336.	4.2	15
69	Preparation of freestanding palladium nanosheets modified with gold nanoparticles at edges. <i>Nano Research</i> , 2018, 11, 4142-4148.	5.8	15
70	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, .	1.1	14
71	Elevated Hair Cortisol Levels among Heroin Addicts on Current Methadone Maintenance Compared to Controls. <i>PLoS ONE</i> , 2016, 11, e0150729.	1.1	13
72	Mitochondrial Dysfunction Causes Oxidative Stress and Tapetal Apoptosis in Chemical Hybridization Reagent-Induced Male Sterility in Wheat. <i>Frontiers in Plant Science</i> , 2018, 8, 2217.	1.7	13

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73	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.	1.6	12
74	Br-Doped CuO Multilamellar Mesoporous Nanosheets with Oxygen Vacancies and Cetyltrimethyl Ammonium Cations Adsorption for Optimizing Intermediate Species and Their Adsorption Behaviors toward CO ₂ Electroreduction to Ethanol with a High Faradaic Efficiency. <i>Inorganic Chemistry</i> , 2021, 60, 14371-14381.	1.9	12
75	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.	5.2	12
76	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.	1.4	12
77	Convenient Synthesis of a Ru Catalyst Containing Single Atoms and Nanoparticles on Nitrogen-Doped Carbon with Superior Hydrogen Evolution Reaction Activity in a Wide pH Range. <i>Inorganic Chemistry</i> , 2022, 61, 11011-11021.	1.9	12
78	Compensation length of two-dimensional chloride diffusion in concrete using a boundary element model. <i>Acta Mechanica</i> , 2013, 224, 123-137.	1.1	11
79	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.	1.0	11
80	Optimized Self-templating Synthesis Method for Highly Crystalline Hollow Cu ₂ O Nanoboxes. <i>Small Methods</i> , 2020, 4, 2000521.	4.6	10
81	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.	1.3	10
82	Understanding the dehydrogenation mechanism over iron nanoparticles catalysts based on density functional theory. <i>Chinese Chemical Letters</i> , 2021, 32, 286-290.	4.8	10
83	Amino induced high-loading atomically dispersed Co sites on N-doped hollow carbon for efficient CO ₂ transformation. <i>Chemical Communications</i> , 2022, 58, 6602-6605.	2.2	10
84	Synergetic effect of nitrogen-doped carbon catalysts for high-efficiency electrochemical CO ₂ reduction. <i>Chinese Journal of Catalysis</i> , 2022, 43, 1697-1702.	6.9	10
85	Heterometallic rare-earth metal complexes with imino-functionalized 8-hydroxyquinolyl ligands: synthesis, characterization and catalytic activity towards hydrophosphinylation of trans- β^2 -nitroalkene. <i>New Journal of Chemistry</i> , 2015, 39, 7626-7632.	1.4	9
86	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.	3.5	9
87	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.	0.4	8
88	Effect of ageing on fatigue properties of asphalt. <i>Central South University</i> , 2008, 15, 111-114.	0.5	7
89	Engineering electrophilic atomic Ir sites on CeO ₂ colloidal spheres for selectivity control in hydrogenation of β^2 -unsaturated carbonyl compounds. <i>Nano Research</i> , 2022, 15, 7107-7115.	5.8	7
90	Multilayer hexagonal silicon forming in slit nanopore. <i>Scientific Reports</i> , 2015, 5, 14792.	1.6	6

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91	Controllable synthesis of Pt@Cu nanocrystals and their tunable catalytic properties. <i>CrystEngComm</i> , 2016, 18, 3764-3767.	1.3	6
92	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.	3.8	6
93	Room-Temperature Hydrogenation of Citral Catalyzed by Palladium-Silver Nanocrystals Supported on SnO ₂ . <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2120-2124.	1.0	5
94	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.	3.8	5
95	Facile synthesis of hexagonal Ni-Co(OH) ₂ nanosheets and their superior activity in the selective reduction of nitro compounds. <i>Dalton Transactions</i> , 2021, 50, 18061-18068.	1.6	5
96	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.	1.3	2
97	A general strategy to prepare atomically dispersed biomimetic catalysts based on host-guest chemistry. <i>Chemical Communications</i> , 2021, 57, 1895-1898.	2.2	2
98	Organic light-emitting devices based on new rare earth complex Tb(p-CIBA) ₃ phen. <i>Optoelectronics Letters</i> , 2006, 2, 403-405.	0.4	1
99	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.	0.9	1
100	Coordinated control strategy of DFIC under grid voltage unbalance conditions. , 2010, , .		1
101	Synthesis and properties of perfluorocarbon chain terminated poly(ether sulfone). <i>RSC Advances</i> , 2016, 6, 93539-93545.	1.7	1
102	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.	1.7	1
103	Machine Learning for Building Immune Genetic Model in Hepatocellular Carcinoma Patients. <i>Journal of Oncology</i> , 2021, 2021, 1-15.	0.6	1
104	A Hybrid Chessboard Polarization Conversion Metasurface for Wideband RCS Reduction. , 2020, , .		1
105	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.	0.4	0
106	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.	4.6	0