

Zhi-Cheng Zhang

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.

115
papers

7,192
citations

41
h-index

84
g-index

125
ext. papers

8,924
ext. citations

12
avg, IF

6.2
L-index

#	Paper	IF	Citations
115	Two Dimensional Covalent Organic Frameworks: From Synthetic Strategies to Advanced optical-electrical-magnetic Functionalities.. <i>Advanced Materials</i> , 2022 , e2102290	24	13
114	Electrochemical Carbon Dioxide Reduction Reaction 2022 , 159-182		
113	Isoreticular Series of Two-Dimensional Covalent Organic Frameworks with the kgd Topology and Controllable Micropores.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	10
112	Recent advances in non-precious group metal-based catalysts for water electrolysis and beyond. <i>Journal of Materials Chemistry A</i> , 2021 , 10, 50-88	13	4
111	Recent Advances in Interface Engineering for Electrocatalytic CO Reduction Reaction. <i>Nano-Micro Letters</i> , 2021 , 13, 216	19.5	6
110	Evoking ordered vacancies in metallic nanostructures toward a vacated Barlow packing for high-performance hydrogen evolution. <i>Science Advances</i> , 2021 , 7,	14.3	25
109	Surface modification of metal materials for high-performance electrocatalytic carbon dioxide reduction. <i>Matter</i> , 2021 , 4, 888-926	12.7	21
108	2021 Roadmap: electrocatalysts for green catalytic processes. <i>JPhys Materials</i> , 2021 , 4, 022004	4.2	24
107	Multi-interface collaboration of graphene cross-linked NiS-NiS ₂ -Ni ₃ S ₄ polymorph foam towards robust hydrogen evolution in alkaline electrolyte. <i>Nano Research</i> , 2021 , 14, 4857	10	17
106	Metastable 1T'-phase group VIB transition metal dichalcogenide crystals. <i>Nature Materials</i> , 2021 , 20, 1113-1120	27	36
105	Multi-functional and flexible helical fiber sensor for micro-deformation detection, temperature sensing and ammonia gas monitoring. <i>Composites Part B: Engineering</i> , 2021 , 211, 108621	10	11
104	Tandem catalysis in electrochemical CO ₂ reduction reaction. <i>Nano Research</i> , 2021 , 14, 4471	10	26
103	Potassium-based electrochemical energy storage devices: Development status and future prospect. <i>Energy Storage Materials</i> , 2021 , 34, 85-106	19.4	21
102	How the biaxially stretching mode influence dielectric and energy storage properties of polypropylene films. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50029	2.9	10
101	Exciton Transport in Molecular Semiconductor Crystals for Spin-Optoelectronics Paradigm. <i>Chemistry - A European Journal</i> , 2021 , 27, 222-227	4.8	3
100	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
99	Integrating NiMoO wafer as a heterogeneous TurboFor engineering robust Ru-based electrocatalyst for overall water splitting. <i>Chemical Engineering Journal</i> , 2021 , 420, 127686	14.7	6

98	Simultaneous studies of pressure effect on charge transport and photophysical properties in organic semiconductors: A theoretical investigation. <i>Chinese Chemical Letters</i> , 2021 , 32, 1233-1236	8.1	1
97	Insight into crystal growth and upconversion luminescence property of tetragonal Ba ₃ Sc ₂ F ₁₂ nanocrystals. <i>Rare Metals</i> , 2021 , 40, 113-122	5.5	1
96	Recent progress in structural modulation of metal nanomaterials for electrocatalytic CO ₂ reduction. <i>Rare Metals</i> , 2021 , 40, 1412-1430	5.5	36
95	Organoimido functionalized trinuclear gold(I) clusters with fluorescent chromophore. <i>Rare Metals</i> , 2021 , 40, 1437-1442	5.5	2
94	2D Materials for electrochemical carbon dioxide reduction 2021 , 183-196		0
93	Recent advance in single-atom catalysis. <i>Rare Metals</i> , 2021 , 40, 767-789	5.5	40
92	Hollow-porous fibers for intrinsically thermally insulating textiles and wearable electronics with ultrahigh working sensitivity. <i>Materials Horizons</i> , 2021 , 8, 1037-1046	14.4	15
91	Interfacial electron modulation of MoS ₂ /black phosphorus heterostructure toward high-rate and high-energy density half/full sodium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 6639-6647	7.8	0
90	Co/N-doped carbon nanotube arrays grown on 2D MOFs-derived matrix for boosting the oxygen reduction reaction in alkaline and acidic media. <i>Chinese Chemical Letters</i> , 2021 , 32, 816-821	8.1	19
89	Fine-tuning inverse metal-support interaction boosts electrochemical transformation of methanol into formaldehyde based on density functional theory. <i>Chinese Chemical Letters</i> , 2021 , 32, 2489-2494	8.1	1
88	Recent advances in carbon-based materials for electrochemical CO ₂ reduction reaction. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	4
87	Addressable surface engineering for N-doped WS nanosheet arrays with abundant active sites and the optimal local electronic structure for enhanced hydrogen evolution reaction. <i>Nanoscale</i> , 2020 , 12, 22541-22550	7.7	10
86	Enhancement of permittivity in P(VDF-CTFE)/metal-organic frameworks mixed matrix membranes. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49539	2.9	1
85	Organic-Inorganic Hybrid Nanomaterials for Electrocatalytic CO Reduction. <i>Small</i> , 2020 , 16, e2001847	11	41
84	Recent Advances in Atomic-Level Engineering of Nanostructured Catalysts for Electrochemical CO ₂ Reduction. <i>Advanced Functional Materials</i> , 2020 , 30, 1910534	15.6	55
83	Heterophase fcc-2H-fcc gold nanorods. <i>Nature Communications</i> , 2020 , 11, 3293	17.4	41
82	Intramolecular Hydrogen Bonding-Based Topology Regulation of Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 13162-13169	16.4	29
81	Three-Dimensional PdPtCu Nanoalloys with a Controllable Composition and Spiny Surface for the Enhancement of Ethanol Electrocatalytic Properties. <i>Langmuir</i> , 2020 , 36, 2584-2591	4	8

80	Fine-Tuning Intrinsic Strain in Penta-Twinned PtCuMn Nanoframes Boosts Oxygen Reduction Catalysis. <i>Advanced Functional Materials</i> , 2020 , 30, 1910107	15.6	52
79	Synthesis of Palladium-Based Crystalline@Amorphous Core-Shell Nanoplates for Highly Efficient Ethanol Oxidation. <i>Advanced Materials</i> , 2020 , 32, e2000482	24	53
78	Atomically Thin Catalysts: Recent Advances in Atomic-Level Engineering of Nanostructured Catalysts for Electrochemical CO ₂ Reduction (Adv. Funct. Mater. 17/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070107	15.6	1
77	Defect-Rich, Candied Haws-Shaped AuPtNi Alloy Nanostructures for Highly Efficient Electrocatalysis. <i>CCS Chemistry</i> , 2020 , 2, 24-30	7.2	16
76	Conductive Metal-Organic Frameworks for Electrocatalysis: Achievements, Challenges, and Opportunities. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2020 , 2010025-0	3.8	10
75	Facile Synthesis Of Composition-Controllable PtPdAuTe Nanowires As Superior Electrocatalysts For Direct Methanol Fuel Cells. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 98-105	4.5	4
74	Ultrathin Pd-based nanosheets: syntheses, properties and applications. <i>Nanoscale</i> , 2020 , 12, 4219-4237	7.7	28
73	High-Temperature Shock Enabled Nanomanufacturing for Energy-Related Applications. <i>Advanced Energy Materials</i> , 2020 , 10, 2001331	21.8	41
72	Defect engineering for electrochemical nitrogen reduction reaction to ammonia. <i>Nano Energy</i> , 2020 , 77, 105126	17.1	63
71	Plasmonic Metallic Heteromeric Nanostructures. <i>Small</i> , 2020 , 16, e2002588	11	18
70	Unraveling molecular-level mechanisms of reactive facet of carbon nitride single crystals photocatalyzing overall water splitting. <i>Rare Metals</i> , 2020 , 39, 1353-1355	5.5	18
69	Ultra-thin metal-organic framework nanoribbons. <i>National Science Review</i> , 2020 , 7, 46-52	10.8	18
68	Ag@FeO@C nanoparticles for multi-modal imaging-guided chemo-photothermal synergistic targeting for cancer therapy. <i>Analytica Chimica Acta</i> , 2019 , 1086, 122-132	6.6	33
67	Elemental Segregation in Multimetallic Core-Shell Nanoplates. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14496-14500	16.4	29
66	Size-Dependent Phase Transformation of Noble Metal Nanomaterials. <i>Small</i> , 2019 , 15, e1903253	11	7
65	Novel Preparation of Noncovalent Modified GO Using RAFT Polymerization to Reinforce the Performance of Waterborne Epoxy Coatings. <i>Coatings</i> , 2019 , 9, 348	2.9	4
64	Scatter correction for a clinical cone-beam CT system using an optimized stationary beam blocker in a single scan. <i>Medical Physics</i> , 2019 , 46, 3165-3179	4.4	6
63	A simple electrochemical method for conversion of Pt wires to Pt concave icosahedra and nanocubes on carbon paper for electrocatalytic hydrogen evolution. <i>Science China Materials</i> , 2019 , 62, 115-121	7.1	15

62	Synthesis of RuNi alloy nanostructures composed of multilayered nanosheets for highly efficient electrocatalytic hydrogen evolution. <i>Nano Energy</i> , 2019 , 66, 104173	17.1	53
61	Facile Synthesis of PdCu Echinus-Like Nanocrystals as Robust Electrocatalysts for Methanol Oxidation Reaction. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 4217-4222	4.5	10
60	Synthesis of PdM (M = Zn, Cd, ZnCd) Nanosheets with an Unconventional Face-Centered Tetragonal Phase as Highly Efficient Electrocatalysts for Ethanol Oxidation. <i>ACS Nano</i> , 2019 , 13, 14329-14336	16.7	67
59	Facile synthesis of trimetallic PtAuCu alloy nanowires as HighPerformance electrocatalysts for methanol oxidation reaction. <i>Journal of Alloys and Compounds</i> , 2019 , 780, 504-511	5.7	26
58	Synthesis of MoX ₂ (X = Se or S) monolayers with high-concentration 1T' phase on 4H/fcc-Au nanorods for hydrogen evolution. <i>Nano Research</i> , 2019 , 12, 1301-1305	10	28
57	Syntheses and Properties of Metal Nanomaterials with Novel Crystal Phases. <i>Advanced Materials</i> , 2018 , 30, e1707189	24	103
56	Two-Dimensional Metal Nanomaterials: Synthesis, Properties, and Applications. <i>Chemical Reviews</i> , 2018 , 118, 6409-6455	68.1	467
55	Amorphous/Crystalline Hetero-Phase Pd Nanosheets: One-Pot Synthesis and Highly Selective Hydrogenation Reaction. <i>Advanced Materials</i> , 2018 , 30, e1803234	24	147
54	Preparation of 1T'-Phase ReSSe (x = 0-1) Nanodots for Highly Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8563-8568	16.4	77
53	Crystal Phase and Architecture Engineering of Lotus-Thalamus-Shaped Pt-Ni Anisotropic Superstructures for Highly Efficient Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018 , 30, e1801741	24	128
52	Hybridization of MOFs and COFs: A New Strategy for Construction of MOF@COF Core-Shell Hybrid Materials. <i>Advanced Materials</i> , 2018 , 30, 1705454	24	200
51	Improved Energy Storage Performance of Linear Dielectric Polymer Nanodielectrics with Polydopamine coated BN Nanosheets. <i>Polymers</i> , 2018 , 10,	4.5	29
50	Facile Synthesis of Highly Active Three-Dimensional Urchin-like [email[protected]] Nanostructures for Improved Methanol and Ethanol Electrochemical Oxidation. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3226-3235	5.6	28
49	Improved Reversibility of Fe /Fe Redox Couple in Sodium Super Ion Conductor Type Na Fe (PO) for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1605694	24	115
48	Growth of Au Nanoparticles on 2D Metalloporphyrinic Metal-Organic Framework Nanosheets Used as Biomimetic Catalysts for Cascade Reactions. <i>Advanced Materials</i> , 2017 , 29, 1700102	24	283
47	Ultrathin Two-Dimensional Covalent Organic Framework Nanosheets: Preparation and Application in Highly Sensitive and Selective DNA Detection. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8698-8704	16.4	301
46	Synthesis of Ultrathin PdCu Alloy Nanosheets Used as a Highly Efficient Electrocatalyst for Formic Acid Oxidation. <i>Advanced Materials</i> , 2017 , 29, 1700769	24	154
45	Edge Epitaxy of Two-Dimensional MoSe and MoS Nanosheets on One-Dimensional Nanowires. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8653-8660	16.4	90

44	Synthesis, Structure, and Magnetic Properties of a Random Bimetallic One-dimensional CoII-MnII Coordination Polymer with Mixed Azide-carboxylate Bridges. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017 , 643, 2163-2167	1.3	
43	In Situ Synthesis of Metal Sulfide Nanoparticles Based on 2D Metal-Organic Framework Nanosheets. <i>Small</i> , 2016 , 12, 4669-74	11	88
42	Submonolayered Ru Deposited on Ultrathin Pd Nanosheets used for Enhanced Catalytic Applications. <i>Advanced Materials</i> , 2016 , 28, 10282-10286	24	117
41	Facile synthesis of complex shaped Pt-Cu alloy architectures. <i>Nanoscale</i> , 2016 , 8, 13212-6	7.7	17
40	Composition dependence of magnetic relaxation for CoNi chain-based compounds with mixed double azide-tetrazolate bridges. <i>Dalton Transactions</i> , 2016 , 45, 8028-35	4.3	15
39	Synthesis of Two-Dimensional CoS _{1.097} /Nitrogen-Doped Carbon Nanocomposites Using Metal-Organic Framework Nanosheets as Precursors for Supercapacitor Application. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6924-7	16.4	485
38	Competitive coordination strategy for the synthesis of hierarchical-pore metal-organic framework nanostructures. <i>Chemical Science</i> , 2016 , 7, 7101-7105	9.4	84
37	One-Pot Synthesis of Highly Anisotropic Five-Fold-Twinned PtCu Nanoframes Used as a Bifunctional Electrocatalyst for Oxygen Reduction and Methanol Oxidation. <i>Advanced Materials</i> , 2016 , 28, 8712-8717	24	275
36	Space-confined creation of nanoframes in situ on reduced graphene oxide. <i>Small</i> , 2015 , 11, 1512-8	11	6
35	Three-dimensional hierarchical Pt-Cu superstructures. <i>Nano Research</i> , 2015 , 8, 832-838	10	67
34	Ultrathin 2D Metal-Organic Framework Nanosheets. <i>Advanced Materials</i> , 2015 , 27, 7372-8	24	684
33	Well-Defined Metal-Organic-Framework Hollow Nanostructures for Catalytic Reactions Involving Gases. <i>Advanced Materials</i> , 2015 , 27, 5365-71	24	139
32	Facile and generalized encapsulations of inorganic nanocrystals with nitrogen-doped carbonaceous coating for multifunctionality. <i>Nanoscale</i> , 2015 , 7, 3254-62	7.7	10
31	Effect of water on hydrogenation of 1,3-butadiene over Au (111): A joint theoretical and experimental study. <i>Applied Surface Science</i> , 2014 , 289, 6-13	6.7	9
30	Rapid synthesis of mesoporous Ni ₃ Co ₃ (PO ₄) ₂ hollow shells showing enhanced electrocatalytic and supercapacitor performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20182-20188	13	82
29	Hierarchical Zn/Ni-MOF-2 nanosheet-assembled hollow nanocubes for multicomponent catalytic reactions. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12517-21	16.4	74
28	Well-defined metal-organic framework hollow nanocages. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 429-33	16.4	255
27	Engineering nanointerfaces for nanocatalysis. <i>Chemical Society Reviews</i> , 2014 , 43, 7870-86	58.5	223

26	Inorganic nanocrystals: From molecular design to systematic engineering. <i>Particuology</i> , 2014 , 17, 1-10	2.8	5
25	Well-Defined Metal-Organic Framework Hollow Nanocages. <i>Angewandte Chemie</i> , 2014 , 126, 439-443	3.6	57
24	Hierarchical Zn/Ni-MOF-2 Nanosheet-Assembled Hollow Nanocubes for Multicomponent Catalytic Reactions. <i>Angewandte Chemie</i> , 2014 , 126, 12725-12729	3.6	82
23	Biomimetic multifunctional nanochannels based on the asymmetric wettability of heterogeneous nanowire membranes. <i>Advanced Materials</i> , 2014 , 26, 1071-5	2.4	59
22	Hierarchical MnO ₂ /SnO ₂ heterostructures for a novel free-standing ternary thermite membrane. <i>Inorganic Chemistry</i> , 2013 , 52, 9449-55	5.1	23
21	Nanowire membrane-based nanothermite: towards processable and tunable interfacial diffusion for solid state reactions. <i>Scientific Reports</i> , 2013 , 3, 1694	4.9	19
20	Highly stable and active PtNiFe dandelion-like alloys for methanol electrooxidation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13252	1.3	27
19	One-pot fabrication of single-crystalline octahedral Pt-Cu nanoframes and their enhanced electrocatalytic activity. <i>Nanoscale</i> , 2013 , 5, 3660-3	7.7	108
18	Fine tuning of the structure of Pt-Cu alloy nanocrystals by glycine-mediated sequential reduction kinetics. <i>Small</i> , 2013 , 9, 3063-9	1.1	90
17	Growth of concave polyhedral Pd nanocrystals with 32 facets through in situ facet-selective etching. <i>ChemSusChem</i> , 2013 , 6, 1893-7	8.3	15
16	Formamide: an efficient solvent to synthesize water-soluble and sub-ten-nanometer nanocrystals. <i>Nanoscale</i> , 2013 , 5, 4495-505	7.7	24
15	Ultrathin Pt-Cu nanosheets and nanocones. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18304-7	16.4	275
14	One-pot, template-free synthesis of Pd-Pt single-crystalline hollow cubes with enhanced catalytic activity. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 1523-9	4.5	9
13	Pd cluster nanowires as highly efficient catalysts for selective hydrogenation reactions. <i>Chemistry - A European Journal</i> , 2012 , 18, 2639-45	4.8	47
12	Crystal growth by leaps and bounds based on self-assembly: insight from titania. <i>CrystEngComm</i> , 2012 , 14, 7648	3.3	7
11	Fluorinated HAP:Ln ³⁺ (Ln = Eu or Tb) nanoparticles for cell-imaging. <i>Nanoscale</i> , 2012 , 4, 6967-70	7.7	137
10	Glycine-mediated syntheses of Pt concave nanocubes with high-index {hk0} facets and their enhanced electrocatalytic activities. <i>Langmuir</i> , 2012 , 28, 14845-8	4	100
9	High performance of carbon nanotubes confining gold nanoparticles for selective hydrogenation of 1,3-butadiene and cinnamaldehyde. <i>Journal of Catalysis</i> , 2012 , 292, 213-226	7.3	73

8	Ultrathin Ca-PO ₄ -CO ₃ solid-solution nanowires: a controllable synthesis and full-color emission by rare-earth doping. <i>Chemistry - A European Journal</i> , 2012 , 18, 13702-11	4.8	19
7	Solvothermal synthesis of Pt-Pd alloys with selective shapes and their enhanced electrocatalytic activities. <i>Nanoscale</i> , 2012 , 4, 2633-9	7.7	87
6	Synergistic Effects in Ultrafine Amorphous InS _x O _y Nanowires Boost Photocatalytic Syngas Production from CO ₂ . <i>Journal of Materials Chemistry A</i> ,	13	2
5	Manipulating all-pH hydrogen evolution kinetics on metal sulfides through one-pot simultaneously derived multi-interface engineering and phosphorus doping. <i>Journal of Materials Chemistry A</i> ,	13	4
4	K ⁺ -enhanced electrocatalytic CO ₂ reduction to multicarbon products in strong acid. <i>Rare Metals</i> ,1	5.5	4
3	Bimetallic phthalocyanine heterostructure used for highly selective electrocatalytic CO ₂ reduction. <i>Science China Materials</i> ,1	7.1	8
2	Selectivity regulation of CO ₂ electroreduction on asymmetric AuAgCu tandem heterostructures. <i>Nano Research</i> ,1	10	0
1	Defect-Rich, Candied Haws-Shaped AuPtNi Alloy Nanostructures for Highly Efficient Electrocatalysis. <i>CCS Chemistry</i> ,24-30	7.2	