

Zhonglong Zhao

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.

39
papers

1,946
citations

20
h-index

40
g-index

40
ext. papers

2,699
ext. citations

9.5
avg. IF

5
L-index

#	Paper	IF	Citations
39	Circumventing the scaling relationship on bimetallic monolayer electrocatalysts for selective CO reduction.. <i>Chemical Science</i> , 2022 , 13, 3880-3887	9.4	1
38	Exclusive Strain Effect Boosts Overall Water Splitting in PdCu/Ir Core/Shell Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8243-8250	16.4	55
37	Improving the Stability of Non-Noble-Metal M-N-C Catalysts for Proton-Exchange-Membrane Fuel Cells through M-N Bond Length and Coordination Regulation. <i>Advanced Materials</i> , 2021 , 33, e2006613	24	19
36	Sub-Monolayer YO /MoO on Ultrathin Pt Nanowires Boosts Alcohol Oxidation Electrocatalysis. <i>Advanced Materials</i> , 2021 , 33, e2103762	24	31
35	Bimetalloenes for selective electrocatalytic conversion of CO ₂ : a first-principles study. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12457-12462	13	6
34	Biaxial Strains Mediated Oxygen Reduction Electrocatalysis on Fenton Reaction Resistant L10-PtZn Fuel Cell Cathode. <i>Advanced Energy Materials</i> , 2020 , 10, 2000179	21.8	54
33	Lavender-Like Ga-Doped Pt ₃ Co Nanowires for Highly Stable and Active Electrocatalysis. <i>ACS Catalysis</i> , 2020 , 10, 3018-3026	13.1	42
32	Oxygen Reduction: Biaxial Strains Mediated Oxygen Reduction Electrocatalysis on Fenton Reaction Resistant L10-PtZn Fuel Cell Cathode (Adv. Energy Mater. 29/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070124	21.8	2
31	Steering elementary steps towards efficient alkaline hydrogen evolution via size-dependent Ni/NiO nanoscale heterosurfaces. <i>National Science Review</i> , 2020 , 7, 27-36	10.8	71
30	PdMo bimetalloene for oxygen reduction catalysis. <i>Nature</i> , 2019 , 574, 81-85	50.4	456
29	Tuning the oxygen evolution reaction on a nickel-iron alloy via active straining. <i>Nanoscale</i> , 2019 , 11, 426-430	4.7	36
28	Cu-Based Single-Atom Catalysts Boost Electroreduction of CO ₂ to CH ₃ OH: First-Principles Predictions. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4380-4387	3.8	40
27	Sub-6 nm Fully Ordered L10-PtNiCo Nanoparticles Enhance Oxygen Reduction via Co Doping Induced Ferromagnetism Enhancement and Optimized Surface Strain. <i>Advanced Energy Materials</i> , 2019 , 9, 1803771	21.8	76
26	Tungsten-Doped L10-PtCo Ultrasmall Nanoparticles as a High-Performance Fuel Cell Cathode. <i>Angewandte Chemie</i> , 2019 , 131, 15617-15623	3.6	17
25	Highly Efficient AuPd Catalyst for Synthesizing Polybenzoxazole with Controlled Polymerization. <i>Matter</i> , 2019 , 1, 1631-1643	12.7	3
24	CuN Nanocubes for Selective Electrochemical Reduction of CO to Ethylene. <i>Nano Letters</i> , 2019 , 19, 8658-8663	11.5	76
23	Tungsten-Doped L1 -PtCo Ultrasmall Nanoparticles as a High-Performance Fuel Cell Cathode. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15471-15477	16.4	62

22	Computational Screening of Near-Surface Alloys for CO ₂ Electroreduction. <i>ACS Catalysis</i> , 2018 , 8, 3885-3894	3.9	51
21	A Novel High-Density Phase and Amorphization of Nitrogen-Rich 1H-Tetrazole (CHN) under High Pressure. <i>Scientific Reports</i> , 2017 , 7, 39249	4.9	10
20	Computational Discovery of Nickel-Based Catalysts for CO ₂ Reduction to Formic Acid. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 20865-20870	3.8	27
19	Ab initio molecular dynamic study of solid-state transitions of ammonium nitrate. <i>Scientific Reports</i> , 2016 , 6, 18918	4.9	5
18	Generalized Surface Coordination Number as an Activity Descriptor for CO ₂ Reduction on Cu Surfaces. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 28125-28130	3.8	54
17	Potentially superhard hcp CrN ₂ compound studied at high pressure. <i>Physical Review B</i> , 2016 , 93,	3.3	21
16	High pressure structures and superconductivity of AlH ₃ (H ₂) predicted by first principles. <i>RSC Advances</i> , 2015 , 5, 5096-5101	3.7	26
15	Pressure-Induced Amorphization and Recrystallization of SnI ₂ . <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19312-19317	3.8	4
14	Phase diagram, mechanical properties, and electronic structure of Nb-N compounds under pressure. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 22837-45	3.6	20
13	First-principles study on the structural and electronic properties of metallic HfH ₂ under pressure. <i>Scientific Reports</i> , 2015 , 5, 11381	4.9	18
12	Ab initio study of germanium-hydride compounds under high pressure. <i>RSC Advances</i> , 2015 , 5, 19432-19438	3.8	12
11	The low coordination number of nitrogen in hard tungsten nitrides: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13397-402	3.6	19
10	Pressure-induced structural changes in NH ₄ Br. <i>Journal of Chemical Physics</i> , 2015 , 143, 064505	3.9	1
9	Effects of magnetic ordering and electron correlations on the stability of FeN. <i>RSC Advances</i> , 2015 , 5, 31270-31274	3.7	13
8	Crystal structures and properties of nitrogen oxides under high pressure. <i>RSC Advances</i> , 2015 , 5, 103373-103379	3.7	10
7	Miscibility and ordered structures of MgO-ZnO alloys under high pressure. <i>Scientific Reports</i> , 2014 , 4, 5759	4.9	19
6	Pressure-induced metallization of dense (Hf ₂ N) ₂ with high-T _c superconductivity. <i>Scientific Reports</i> , 2014 , 4, 6968	4.9	502
5	Nitrogen concentration driving the hardness of rhenium nitrides. <i>Scientific Reports</i> , 2014 , 4, 4797	4.9	47

- 4 Experimental verification of the high pressure crystal structures in NH₃BH₃. *Journal of Chemical Physics*, **2014**, 140, 244507 3.9 10
- 3 Modulated T carbon-like carbon allotropes: an ab initio study. *RSC Advances*, **2014**, 4, 17364 3.7 28
- 2 Crystal structures and properties of the CH₄H₂ compound under high pressure. *RSC Advances*, **2014**, 4, 37569 3.7 6
- 1 High-pressure phase transition of MH₂(M: Er, Ho). *Journal of Chemical Physics*, **2014**, 141, 054703 3.9 4