Liang Cao

List of Publications by Year
in descending order

18 papers	2,669 citations	687220 13 h-index	940416 16 g-index
22 all docs	22 docs citations	22 times ranked	4548 citing authors

#	Article	IF	Citations
1	High-performance transition metalâ€“doped Pt ₃ Ni octahedra for oxygen reduction reaction. Science, 2015, 348, 1230-1234.	6.0	1,623
2	Ensemble Effect in Bimetallic Electrocatalysts for CO₂ Reduction. Journal of the American Chemical Society, 2019, 141, 16635-16642.	6.6	238
3	Roles of Mo Surface Dopants in Enhancing the ORR Performance of Octahedral PtNi Nanoparticles. Nano Letters, 2018, 18, 798-804.	4.5	162
4	Low-Overpotential Electroreduction of Carbon Monoxide Using Copper Nanowires. ACS Catalysis, 2017, 7, 4467-4472.	5.5	137
5	Mechanistic Insights for Low-Overpotential Electroreduction of CO₂ to CO on Copper Nanowires. ACS Catalysis, 2017, 7, 8578-8587.	5.5	106
6	Differential Surface Elemental Distribution Leads to Significantly Enhanced Stability of PtNi-Based ORR Catalysts. Matter, 2019, 1, 1567-1580.	5.0	82
7	Theoretical Insights into the Effects of Oxidation and Mo-Doping on the Structure and Stability of Ptâ€“Ni Nanoparticles. Nano Letters, 2016, 16, 7748-7754.	4.5	64
8	Tuning Magnetic Property and Autophagic Response for Selfâ€Assembled Niâ€“Co Alloy Nanocrystals. Advanced Functional Materials, 2013, 23, 5930-5940.	7.8	47
9	Undercoordinated Active Sites on 4H Gold Nanostructures for CO₂ Reduction. Nano Letters, 2020, 20, 8074-8080.	4.5	46
10	Rational Design of Pt₃Ni Surface Structures for the Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2015, 119, 17735-17747.	1.5	44
11	The Use of Cluster Expansions To Predict the Structures and Properties of Surfaces and Nanostructured Materials. Journal of Chemical Information and Modeling, 2018, 58, 2401-2413.	2.5	41
12	Asymmetrical Câ€“C Coupling for Electroreduction of CO on Bimetallic Cuâ€“Pd Catalysts. ACS Catalysis, 2022, 12, 5275-5283.	5.5	35
13	Improved Prediction of Nanoalloy Structures by the Explicit Inclusion of Adsorbates in Cluster Expansions. Journal of Physical Chemistry C, 2018, 122, 18040-18047.	1.5	19
14	Computationally generated maps of surface structures and catalytic activities for alloy phase diagrams. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22044-22051.	3.3	14
15	Predicting activation energies for vacancy-mediated diffusion in alloys using a transition-state cluster expansion. Physical Review Materials, 2021, 5, .	0.9	7
16	Recent advances in the application of machine-learning algorithms to predict adsorption energies. Trends in Chemistry, 2022, 4, 347-360.	4.4	4
17	The Creation of Catalytic Activity Maps for Alloy Phase Diagrams. ECS Meeting Abstracts, 2019, , .	0.0	0
18	Calculation of Coverage-Dependent Catalytic Activity for Alloy Nanoparticles with Experimentally Relevant Sizes. ECS Meeting Abstracts, 2020, MA2020-01, 2747-2747.	0.0	0