Matthew T Darby

List of Publications by Year
in descending order

13 papers	2,094 citations	687363 13 h-index	1125743 13 g-index
13 all docs	13 docs citations	13 times ranked	3215 citing authors

#	Article	IF	Citations
1	MoS2 monolayer catalyst doped with isolated Co atoms for the hydrodeoxygenation reaction. Nature Chemistry, 2017, 9, 810-816.	13.6	683
2	Pt/Cu single-atom alloys as coke-resistant catalysts for efficient Câ€“H activation. Nature Chemistry, 2018, 10, 325-332.	13.6	472
3	Lonely Atoms with Special Gifts: Breaking Linear Scaling Relationships in Heterogeneous Catalysis with Single-Atom Alloys. Journal of Physical Chemistry Letters, 2018, 9, 5636-5646.	4.6	206
4	Controlling Hydrogen Activation, Spillover, and Desorption with Pdâ€“Au Single-Atom Alloys. Journal of Physical Chemistry Letters, 2016, 7, 480-485.	4.6	169
5	Elucidating the Stability and Reactivity of Surface Intermediates on Single-Atom Alloy Catalysts. ACS Catalysis, 2018, 8, 5038-5050.	11.2	152
6	Carbon Monoxide Poisoning Resistance and Structural Stability of Single Atom Alloys. Topics in Catalysis, 2018, 61, 428-438.	2.8	117
7	Engineering Monolayer 1T-MoS₂ into a Bifunctional Electrocatalyst via Sonochemical Doping of Isolated Transition Metal Atoms. ACS Catalysis, 2019, 9, 7527-7534.	11.2	92
8	Preparation, Structure, and Surface Chemistry of Niâ€“Au Single Atom Alloys. Journal of Physical Chemistry C, 2016, 120, 13574-13580.	3.1	70
9	CO-Induced Aggregation and Segregation of Highly Dilute Alloys: A Density Functional Theory Study. Journal of Physical Chemistry C, 2019, 123, 9128-9138.	3.1	47
10	Engineering the Surface Architecture of Highly Dilute Alloys: An ab Initio Monte Carlo Approach. ACS Catalysis, 2020, 10, 1224-1236.	11.2	33
11	Singleâ€Atom Alloys for the Electrochemical Oxygen Reduction Reaction. ChemPhysChem, 2021, 22, 499-508.	2.1	20
12	Carbon Monoxide Mediated Hydrogen Release from PtCu Single-Atom Alloys: The Punctured Molecular Cork Effect. Journal of Physical Chemistry C, 2019, 123, 10419-10428.	3.1	19
13	Adlayer structure and lattice size effects on catalytic rates predicted from KMC simulations: NO oxidation on Pt(111). Journal of Chemical Physics, 2018, 149, 184701.	3.0	14