

# Matthew T Darby

## List of Publications by Year in descending order

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13  
papers

2,094  
citations

687363

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1125743

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13  
docs citations

13  
times ranked

3215  
citing authors

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