

Yao Sha

List of Publications by Year in descending order

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12
papers

868
citations

759233

12
h-index

1125743

13
g-index

13
all docs

13
docs citations

13
times ranked

1397
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical Study of Solvent Effects on the Platinum-Catalyzed Oxygen Reduction Reaction. Journal of Physical Chemistry Letters, 2010, 1, 856-861.	4.6	195
2	Mechanism for Degradation of Nafion in PEM Fuel Cells from Quantum Mechanics Calculations. Journal of the American Chemical Society, 2011, 133, 19857-19863.	13.7	128
3	Oxygen Hydration Mechanism for the Oxygen Reduction Reaction at Pt and Pd Fuel Cell Catalysts. Journal of Physical Chemistry Letters, 2011, 2, 572-576.	4.6	110
4	Finding Correlations of the Oxygen Reduction Reaction Activity of Transition Metal Catalysts with Parameters Obtained from Quantum Mechanics. Journal of Physical Chemistry C, 2013, 117, 26598-26607.	3.1	89
5	DFT Prediction of Oxygen Reduction Reaction on Palladium-Copper Alloy Surfaces. ACS Catalysis, 2014, 4, 1189-1197.	11.2	84
6	Mechanism for Oxygen Reduction Reaction on Pt ₃ Ni Alloy Fuel Cell Cathode. Journal of Physical Chemistry C, 2012, 116, 21334-21342.	3.1	62
7	Improved Non-Pt Alloys for the Oxygen Reduction Reaction at Fuel Cell Cathodes Predicted from Quantum Mechanics. Journal of Physical Chemistry C, 2010, 114, 11527-11533.	3.1	43
8	Density Functional Theory Study of Pt ₃ M Alloy Surface Segregation with Adsorbed O/OH and Pt ₃ O _s as Catalysts for Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2014, 118, 26703-26712.	3.1	37
9	Dramatic Increase in the Oxygen Reduction Reaction for Platinum Cathodes from Tuning the Solvent Dielectric Constant. Angewandte Chemie - International Edition, 2014, 53, 6669-6672.	13.8	33
10	A Cyclic Hexapeptide Comprising Alternating β -Aminoxy and β -Amino Acids is a Selective Chloride Ion Receptor. Chemistry - A European Journal, 2005, 11, 3005-3009.	3.3	30
11	Prediction of the Dependence of the Fuel Cell Oxygen Reduction Reactions on Operating Voltage from DFT Calculations. Journal of Physical Chemistry C, 2012, 116, 6166-6173.	3.1	30
12	The effect of different environments on Nafion degradation: Quantum mechanics study. Journal of Membrane Science, 2013, 437, 276-285.	8.2	20