

# Jing Yang

## List of Publications by Year in descending order

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16  
papers

228  
citations

1163117

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1199594

12  
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17  
docs citations

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times ranked

438  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable Oxygen Diffusion and Electronic Conduction in SrTiO <sub>3</sub> by Dislocation-Induced Space Charge Fields. <i>Advanced Functional Materials</i> , 2017, 27, 1700243.	14.9	64
2	Tuning Point Defects by Elastic Strain Modulates Nanoparticle Exsolution on Perovskite Oxides. <i>Chemistry of Materials</i> , 2021, 33, 5021-5034.	6.7	36
3	Thermally-enhanced minority carrier collection in hematite during photoelectrochemical water and sulfite oxidation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10801-10810.	10.3	29
4	Predicting point defect equilibria across oxide hetero-interfaces: model system of ZrO <sub>2</sub> /Cr <sub>2</sub> O <sub>3</sub> . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 3869-3883.	2.8	28
5	Oxygen self-diffusion mechanisms in monoclinic $ZrO_2$ revealed and quantified by density functional theory, random walk analysis, and kinetic Monte Carlo calculations. <i>Physical Review B</i> , 2018, 97, .	3.2	20
6	Integrated Computational Modeling of Water Side Corrosion in Zirconium Metal Clad Under Nominal LWR Operating Conditions. <i>Jom</i> , 2016, 68, 2900-2911.	1.9	13
7	One-Shot Approach for Enforcing Piecewise Linearity on Hybrid Functionals: Application to Band Gap Predictions. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3066-3071.	4.6	10
8	Interplay between H <sub>2</sub> O and CO <sub>2</sub> coadsorption and space-charge on Y-doped BaZrO <sub>3</sub> surfaces. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24823-24830.	10.3	9
9	Strain-Dependent Surface Defect Equilibria of Mixed Ionic-Electronic Conducting Perovskites. <i>Chemistry of Materials</i> , 2022, 34, 5138-5150.	6.7	7
10	Role of Adsorbate Coverage on the Oxygen Dissociation Rate on Sr-Doped LaMnO <sub>3</sub> Surfaces in the Presence of H <sub>2</sub> O and CO <sub>2</sub> . <i>Chemistry of Materials</i> , 2020, 32, 5483-5492.	6.7	5
11	The role of doping and microstructure on hydrogen solubility in monoclinic ZrO <sub>2</sub> : Experimental validations of simulated defect chemistry. <i>Acta Materialia</i> , 2020, 195, 172-183.	7.9	3
12	Structure, Kinetics, and Thermodynamics of Water and Its Ions at the Interface with Monoclinic ZrO <sub>2</sub> Resolved via Ab Initio Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15233-15242.	3.1	3
13	Defect Equilibria and Kinetics in Crystalline Insulating Oxides: Bulk and Hetero-Interfaces. , 2019, , 1-24.		1
14	Challenges and Opportunities in Modeling Oxides for Energy and Information Devices. , 2019, , 1-13.		0
15	Defect Equilibria and Kinetics in Crystalline Insulating Oxides: Bulk and Hetero-Interfaces. , 2018, , 1-24.		0
16	Electro-chemo-mechanical effects of lithium incorporation in zirconium oxide. <i>Physical Review Materials</i> , 2018, 2, .	2.4	0