

# Yong Jiang

## List of Publications by Citations

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37  
papers

750  
citations

15  
h-index

27  
g-index

38  
ext. papers

938  
ext. citations

5.2  
avg, IF

4.27  
L-index

#	Paper	IF	Citations
37	Density-functional calculation of CeO <sub>2</sub> surfaces and prediction of effects of oxygen partial pressure and temperature on stabilities. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 64701	3.9	166
36	New Prelithiated V <sub>2</sub> O <sub>5</sub> Superstructure for Lithium-Ion Batteries with Long Cycle Life and High Power. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 31-38	20.1	78
35	First principles assessment of metal/oxide interface adhesion. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 141918	3.4	54
34	Experimental and DFT characterization of $\eta$ nano-phase and its interfaces in Al Zn Mg Cu alloys. <i>Acta Materialia</i> , <b>2019</b> , 164, 207-219	8.4	53
33	The ferrite/oxide interface and helium management in nano-structured ferritic alloys from the first principles. <i>Acta Materialia</i> , <b>2016</b> , 103, 474-482	8.4	44
32	Adhesion of the $\eta$ Ni(Al)/ $\eta$ Al <sub>2</sub> O <sub>3</sub> interface: a first-principles assessment. <i>International Journal of Materials Research</i> , <b>2007</b> , 98, 1214-1221	0.5	37
31	Formation of coherent, core-shelled nano-particles in dilute Al-Sc-Zr alloys from the first-principles. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 930-938	9.1	35
30	Trapping helium in Y <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> compared to in matrix iron: A first principles study. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 143508	2.5	31
29	Environment-dependent surface structures and stabilities of SnO <sub>2</sub> from the first principles. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 063504	2.5	28
28	Experimental and DFT characterization of interphase boundaries in titanium and the implications for $\eta$ -assisted $\eta$ -phase precipitation. <i>Acta Materialia</i> , <b>2018</b> , 151, 406-415	8.4	26
27	Morphological Evolution and Magnetic Property of Rare-Earth-Doped Hematite Nanoparticles: Promising Contrast Agents for T <sub>1</sub> -Weighted Magnetic Resonance Imaging. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606821	15.6	24
26	Correlation of grain boundary extra free volume with vacancy and solute segregation at grain boundaries: a case study for Al. <i>Philosophical Magazine</i> , <b>2018</b> , 98, 464-483	1.6	21
25	Nonstoichiometry and relative stabilities of Y <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> polar surfaces: A density functional theory prediction. <i>Acta Materialia</i> , <b>2013</b> , 61, 7260-7270	8.4	20
24	Theoretical prediction of impurity effects on the internally oxidized metal/oxide interface: the case study of S on Cu/Al <sub>2</sub> O <sub>3</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 11178-84	3.6	19
23	Effects of external stress aging on morphology and precipitation behavior of $\eta$ phase in Al-Cu alloy. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2014</b> , 24, 2282-2288	3.3	15
22	High-Temperature Deformation Behavior of Ti-6Al-2Sn-4Zr-2Mo Alloy with Lamellar Microstructure Under Plane-Strain Compression. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 4941-4954	1.6	14
21	Effects of rare-earth dopants on the thermally grown Al <sub>2</sub> O <sub>3</sub> /Ni(Al) interface: the first-principles prediction. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 2640-2646	4.3	12

20	Interface-level thermodynamic stability diagram for in situ internal oxidation of Ag(SnO <sub>2</sub> ) <sub>p</sub> composites. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 1646-1654	4.3	10
19	Point defect concentrations of L12-Al <sub>3</sub> X(Sc, Zr, Er). <i>Rare Metals</i> , <b>2018</b> , 37, 699-706	5.5	9
18	Prediction on the Surface Phase Diagram and Growth Morphology of Nanocrystal Ruthenium Dioxide. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 3702-3709	3.8	8
17	Machine Learning in Screening High Performance Electrocatalysts for CO Reduction.. <i>Small Methods</i> , <b>2021</b> , 5, e2100987	12.8	8
16	Formation and Relative Stabilities of Core-Shelled L12-Phase Nano-structures in Dilute Al <sub>3</sub> Sc <sub>2</sub> Er Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2020</b> , 33, 1627-1634	2.5	6
15	Incoherent tilt grain boundaries stabilized by stacking faults and solute-cluster segregation: a case-study of an Mg-Gd alloy. <i>Materials Research Letters</i> , <b>2020</b> , 8, 268-274	7.4	6
14	Surface stabilities of 3C <sub>2</sub> B <sub>2</sub> C and H <sub>2</sub> O adsorption on the (110) surface. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 6256-6266	3.8	5
13	Double-Shelled L12 Nano-structures in Quaternary Al <sub>3</sub> Er <sub>2</sub> Sc <sub>2</sub> Zr Alloys: Origin and Critical Significance. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2021</b> , 34, 1277-1284	2.5	4
12	Dehydrated Na <sub>6</sub> [AlSiO <sub>4</sub> ] <sub>6</sub> sodalite as a promising SO <sub>2</sub> sorbent material: A first principles thermodynamics prediction. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 3663-3672	3.8	4
11	Structures and adhesion of hcp thin film coating interfaces on a single-crystal bcc substrate by PVD: Ti/Mo and Zr/Mo. <i>Computational Materials Science</i> , <b>2020</b> , 174, 109504	3.2	3
10	Effect of Cooling Rate on the Formation and Morphology of (W,V)C <sub>x</sub> in VC-doped WC <sub>1-x</sub> Cemented Carbide. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2017</b> , 30, 146-155	2.5	2
9	Vacancy and solute co-segregated $\Sigma$ interface in over-aged Al-Zn-Mg alloys. <i>Acta Materialia</i> , <b>2021</b> , 218, 117082	8.4	2
8	Solute-second phase interaction for Mg, Ag and Zn in Al <sub>3</sub> Si alloys. <i>Philosophical Magazine</i> , <b>2020</b> , 100, 1539-1549	1.6	1
7	First-principles study of vacancy defects at interfaces between monolayer MoS <sub>2</sub> and Au.. <i>RSC Advances</i> , <b>2020</b> , 10, 28725-28730	3.7	1
6	Prediction on Phase Stabilities of the Zr <sub>3</sub> Al System from the First-Principles. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2021</b> , 34, 514-522	2.5	1
5	Effect of Alloying Elements on the Mechanical Properties of Mo <sub>3</sub> Si. <i>Metals</i> , <b>2021</b> , 11, 129	2.3	1
4	Dopants and grain boundary effects in monolayer MoS <sub>2</sub> : a first-principles study. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 11937-11943	3.6	1
3	Insights into in-situ TiB <sub>2</sub> /dual-phase Ti alloy interface and its high load-bearing capacity. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 119, 156-166	9.1	1

- 2 Solute Segregation to Grain Boundaries in Al: A First-Principles Evaluation. *Acta Metallurgica Sinica (English Letters)*,1 2.5 0
- 1 Surface Stabilities and Helium Trapping of Nano-Sized Oxide Phases in Nano-Structured Ferritic Alloys: A First Principles Study163-170