Yong Jiang

List of Publications by Year in descending order

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37	1,146	471371 17	395590 33
papers	citations	h-index	g-index

38	38	38	1345
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Density-functional calculation of CeO2 surfaces and prediction of effects of oxygen partial pressure and temperature on stabilities. Journal of Chemical Physics, 2005, 123, 064701.	1.2	198
2	Experimental and DFT characterization of Î·â€² nano-phase and its interfaces in Al Zn Mg Cu alloys. Acta Materialia, 2019, 164, 207-219.	3.8	113
3	New Prelithiated V₂O₅ Superstructure for Lithium-Ion Batteries with Long Cycle Life and High Power. ACS Energy Letters, 2020, 5, 31-38.	8.8	113
4	The ferrite/oxide interface and helium management in nano-structured ferritic alloys from the first principles. Acta Materialia, 2016, 103, 474-482.	3.8	68
5	First principles assessment of metal/oxide interface adhesion. Applied Physics Letters, 2008, 92, .	1.5	62
6	Machine Learning in Screening High Performance Electrocatalysts for CO₂ Reduction. Small Methods, 2021, 5, e2100987.	4.6	60
7	Formation of coherent, core-shelled nano-particles in dilute Al-Sc-Zr alloys from the first-principles. Journal of Materials Science and Technology, 2019, 35, 930-938.	5.6	56
8	Trapping helium in Y2Ti2O7 compared to in matrix iron: A first principles study. Journal of Applied Physics, 2014, 115, .	1.1	42
9	Adhesion of the Î³-Ni(Al)/Î±-Al₂O₃ interface: a first-principles assessment. International Journal of Materials Research, 2007, 98, 1214-1221.	0.1	40
10	Correlation of grain boundary extra free volume with vacancy and solute segregation at grain boundaries: a case study for Al. Philosophical Magazine, 2018, 98, 464-483.	0.7	38
11	Morphological Evolution and Magnetic Property of Rareâ€Earthâ€Doped Hematite Nanoparticles: Promising Contrast Agents for T1â€Weighted Magnetic Resonance Imaging. Advanced Functional Materials, 2017, 27, 1606821.	7.8	34
12	Environment-dependent surface structures and stabilities of SnO2 from the first principles. Journal of Applied Physics, 2012, 111, .	1.1	32
13	Experimental and DFT characterization of interphase boundaries in titanium and the implications for Ï‰-assisted Î± phase precipitation. Acta Materialia, 2018, 151, 406-415.	3.8	30
14	Nonstoichiometry and relative stabilities of Y2Ti2O7 polar surfaces: A density functional theory prediction. Acta Materialia, 2013, 61, 7260-7270.	3.8	27
15	Theoretical prediction of impurity effects on the internally oxidized metal/oxide interface: the case study of S on Cu/Al2O3. Physical Chemistry Chemical Physics, 2012, 14, 11178.	1.3	24
16	Insights into in-situ TiB/dual-phase Ti alloy interface and its high load-bearing capacity. Journal of Materials Science and Technology, 2022, 119, 156-166.	5.6	24
17	High-Temperature Deformation Behavior of Ti-6Al-2Sn-4Zr-2Mo Alloy with Lamellar Microstructure Under Plane-Strain Compression. Journal of Materials Engineering and Performance, 2018, 27, 4941-4954.	1.2	20
18	Effects of rare-earth dopants on the thermally grown Al2O3/Ni(Al) interface: the first-principles prediction. Journal of Materials Science, 2014, 49, 2640-2646.	1.7	17

#	Article	IF	Citations
19	Effects of external stress aging on morphology and precipitation behavior of Î¸â€³ phase in Al-Cu alloy. Transactions of Nonferrous Metals Society of China, 2014, 24, 2282-2288.	1.7	15
20	Interface-level thermodynamic stability diagram for in situ internal oxidation of Ag(SnO2)p composites. Journal of Materials Science, 2015, 50, 1646-1654.	1.7	14
21	Vacancy and solute co-segregated Î·1 interface in over-aged Al-Zn-Mg alloys. Acta Materialia, 2021, 218, 117082.	3.8	14
22	Prediction on the Surface Phase Diagram and Growth Morphology of Nanocrystal Ruthenium Dioxide. Journal of the American Ceramic Society, 2014, 97, 3702-3709.	1.9	11
23	Point defect concentrations of L12-Al3X(Sc, Zr, Er). Rare Metals, 2018, 37, 699-706.	3.6	11
24	Incoherent tilt grain boundaries stabilized by stacking faults and solute-cluster segregation: a case-study of an Mg-Gd alloy. Materials Research Letters, 2020, 8, 268-274.	4.1	11
25	Formation and Relative Stabilities of Core-Shelled L12-Phase Nano-structures in Dilute Alâ€“Scâ€“Er Alloys. Acta Metallurgica Sinica (English Letters), 2020, 33, 1627-1634.	1.5	10
26	Solute Segregation to Grain Boundaries in Al: A First-Principles Evaluation. Acta Metallurgica Sinica (English Letters), 2022, 35, 1572-1582.	1.5	10
27	Dehydrated Na₆[AlSiO₄]₆ sodalite as a promising SO₂ sorbent material: A first principles thermodynamics prediction. Journal of the American Ceramic Society, 2019, 102, 3663-3672.	1.9	9
28	First-principles study of vacancy defects at interfaces between monolayer MoS₂ and Au. RSC Advances, 2020, 10, 28725-28730.	1.7	9
29	Double-Shelled L12 Nano-structures in Quaternary Alâ€“Erâ€“Scâ€“Zr Alloys: Origin and Critical Significance. Acta Metallurgica Sinica (English Letters), 2021, 34, 1277-1284.	1.5	8
30	Surface stabilities of 3Câ€“SiC and H 2 O adsorption on the (110) surface. Journal of the American Ceramic Society, 2019, 102, 6256-6266.	1.9	7
31	Structures and adhesion of hcp thin film coating interfaces on a single-crystal bcc substrate by PVD: Ti/Mo and Zr/Mo. Computational Materials Science, 2020, 174, 109504.	1.4	6
32	Dopants and grain boundary effects in monolayer MoS₂: a first-principles study. Physical Chemistry Chemical Physics, 2021, 23, 11937-11943.	1.3	4
33	Solute-second phase interaction for Mg, Ag and Zn in Alâ€“Li alloys. Philosophical Magazine, 2020, 100, 1539-1549.	0.7	3
34	Effect of Cooling Rate on the Formation and Morphology of (W,V)C x in VC-doped WCâ€“Co Cemented Carbide. Acta Metallurgica Sinica (English Letters), 2017, 30, 146-155.	1.5	2
35	Prediction on Phase Stabilities of the Zrâ€“H System from the First-Principles. Acta Metallurgica Sinica (English Letters), 2021, 34, 514-522.	1.5	2
36	Effect of Alloying Elements on the Mechanical Properties of Mo3Si. Metals, 2021, 11, 129.	1.0	2

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37	Surface Structures and Their Relative Stabilities of Orthorhombic YAlO3: A First-Principles Study. Acta Metallurgica Sinica (English Letters), 0, , .	1.5	0