Jianguo Yu

List of Publications by Year in descending order

29 papers	1,622 citations	430874 18 h-index	526287 27 g-index
33 all docs	33 docs citations	33 times ranked	2796 citing authors

#	Article	IF	Citations
1	Reversible Sodium Ion Insertion in Single Crystalline Manganese Oxide Nanowires with Long Cycle Life. Advanced Materials, 2011, 23, 3155-3160.	21.0	638
2	Charge optimized many-body potential for theSiâ•SiO2system. Physical Review B, 2007, 75, .	3.2	159
3	Atomic-Resolution Visualization of Distinctive Chemical Mixing Behavior of Ni, Co, and Mn with Li in Layered Lithium Transition-Metal Oxide Cathode Materials. Chemistry of Materials, 2015, 27, 5393-5401.	6.7	108
4	First-principles study of defects and phase transition in UO₂. Journal of Physics Condensed Matter, 2009, 21, 435401.	1.8	71
5	Charge and Ion Transport in NiO and Aspects of Ni Oxidation from First Principles. Journal of Physical Chemistry C, 2012, 116, 1948-1954.	3.1	62
6	Coverage dependence and hydroperoxyl-mediated pathway of catalytic water formation on Pt (111) surface. Journal of Chemical Physics, 2006, 125, 054701.	3.0	61
7	Effects of Short-Range Attraction in Metal Epitaxial Growth. Physical Review Letters, 2002, 89, 286103.	7.8	59
8	Energetic recoils in UO2 simulated using five different potentials. Journal of Chemical Physics, 2009, 130, 174502.	3.0	52
9	Dynamical scaling behavior in two-dimensional ballistic deposition with shadowing. Physical Review E, 2002, 66, 021603.	2.1	47
10	Atomic-Scale Mechanisms of Enhanced Electrochemical Properties of Mo-Doped Co-Free Layered Oxide Cathodes for Lithium-Ion Batteries. ACS Energy Letters, 2019, 4, 2540-2546.	17.4	40
11	Unified interatomic potential for zircon, zirconia and silica systems. Journal of Materials Chemistry, 2009, 19, 3923.	6.7	38
12	Kinetic Monte Carlo Study of Ambipolar Lithium Ion and Electronâ€“Polaron Diffusion into Nanostructured TiO₂. Journal of Physical Chemistry Letters, 2012, 3, 2076-2081.	4.6	38
13	Homogeneous hydride formation path in Î±-Zr: Molecular dynamics simulations with the charge-optimized many-body potential. Acta Materialia, 2016, 111, 357-365.	7.9	35
14	Molecular-dynamics simulation of threshold displacement energies in zircon. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 3431-3436.	1.4	31
15	Bubble formation and Kr distribution in Kr-irradiated UO2. Journal of Nuclear Materials, 2015, 456, 125-132.	2.7	29
16	Scaling behavior of the surface in ballistic deposition. Physical Review E, 2002, 65, 060601.	2.1	25
17	Charge Localization and Transport in Lithiated Olivine Phosphate Materials. Journal of Physical Chemistry C, 2011, 115, 25001-25006.	3.1	23
18	Short-range attraction, surface currents, and mound formation in metal (111) epitaxial growth. Physical Review B, 2004, 69, .	3.2	19

#	Article	IF	Citations
19	Ab initio study of lithium transition metal fluorophosphate cathodes for rechargeable batteries. Journal of Materials Chemistry, 2011, 21, 12054.	6.7	18
20	Migration mechanisms of oxygen interstitial clusters in UO₂. Journal of Physics Condensed Matter, 2013, 25, 015003.	1.8	18
21	First-principles calculations of steering forces in epitaxial growth. Physical Review B, 2004, 69, .	3.2	12
22	Interatomic potential for the structure and energetics of tetrahedrally coordinated silica polymorphs. Physical Review B, 2007, 75, .	3.2	10
23	Oxygen transport in off-stoichiometric uranium dioxide mediated by defect clustering dynamics. Journal of Chemical Physics, 2015, 142, 094705.	3.0	8
24	Effects of short-range attraction in unstable metal (110) epitaxial growth: Molecular dynamics simulations for Cu, Ag, and Al. Physical Review B, 2006, 74, .	3.2	6
25	The impacts of charge transfer, localization, and metallicity on hydrogen retention and transport capacity. International Journal of Hydrogen Energy, 2022, 47, 20194-20204.	7.1	4
26	Near Surface Stoichiometry in UO₂: A Density Functional Theory Study. Journal of Chemistry, 2015, 2015, 1-8.	1.9	2
27	Influence of Alloying Elements and Effect of Stress on Anisotropic Hydrogen Diffusion in Zr-Based Alloys Predicted by Accelerated Kinetic Monte Carlo Simulations. Minerals, Metals and Materials Series, 2019, , 1815-1826.	0.4	2
28	Accident tolerant fuel rod failure under low stress: A case study of BWR under station blackout using Bison. Journal of Nuclear Materials, 2021, 553, 153037.	2.7	1
29	From Used Oxide Nuclear Fuel to Rechargeable Battery: A First-Principles Study. Materials Research Society Symposia Proceedings, 2013, 1541, 73201.	0.1	0