

Albert M Iskandarov

List of Publications by Year in descending order

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papers

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all docs

28
docs citations

28
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204
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-Temperature Fast H ⁺ Conduction in Oxygen-Substituted Lanthanum Hydride. Journal of the American Chemical Society, 2022, 144, 1523-1527. Characteristic mechanism for fast H^+ conduction in	13.7	27
2	H^+ conduction in $\text{LaH}_{2.5}\text{O}_{0.25}$. Atomic structure observations and reaction dynamics simulations on triple phase boundaries in solid-oxide fuel cells. Communications Chemistry, 2019, 2, .	7.9	8
3	Criteria of instability of copper and aluminium perfect crystals subjected to elastic deformation in the temperature range 0–400 ÅK. Letters on Materials, 2019, 9, 265-269.	4.5	16
4	Dopant driven tuning of the hydrogen oxidation mechanism at the pore/nickel/zirconia triple phase boundary. Physical Chemistry Chemical Physics, 2018, 20, 12574-12588.	0.7	1
5	Effect of cation dopants in zirconia on interfacial properties in nickel/zirconia systems: an atomistic modeling study. Journal of Physics Condensed Matter, 2017, 29, 045001.	2.8	4
6	Multi-Scale, Multi-Physics Approach for Solid Oxide Fuel Cell Anode Reaction. ECS Transactions, 2017, 78, 2835-2844.	1.8	5
7	A Reactive Force Field (ReaxFF) for Molecular Dynamics Simulations of NiO Reduction in H ₂ Environments. ECS Transactions, 2017, 78, 2765-2771.	0.5	1
8	First-Principles Study of Dopant Effect on Hydrogen Oxidation in Anode of Solid Oxide Fuel Cell. ECS Transactions, 2017, 78, 1469-1475.	0.5	0
9	Development of a new dipole model: interatomic potential for yttria-stabilized zirconia for bulk and surface. Journal of Physics Condensed Matter, 2015, 27, 015005.	0.5	3
10	Atomistic modeling study of surface effect on oxide ion diffusion in yttria-stabilized zirconia. Solid State Ionics, 2015, 279, 46-52.	1.8	3
11	Molecular Dynamics Study of Ni/YSZ Systems Based on Improved Interatomic Model. ECS Transactions, 2015, 68, 2919-2925.	2.7	4
12	Reactive Force-Field Development for Metal/Ceramic SOFC Anode Modeling. ECS Transactions, 2015, 68, 2943-2949.	0.5	0
13	Theoretical shear strength of FCC and HCP metals. Physics of the Solid State, 2014, 56, 423-428.	0.5	3
14	Thermoactivated fracture of graphene subjected to tensile strain. Technical Physics Letters, 2013, 39, 185-188.	0.6	14
15	Modeling of the Ordering Kinetics of a Binary Alloy via a Vacancy Diffusion Mechanism in the Solid Sphere Model. Russian Physics Journal, 2013, 55, 1470-1477.	0.7	2
16	Development of Interatomic Potential for Molecular Dynamics Simulation of Ni/YSZ Anode in Solid Oxide Fuel Cells. ECS Transactions, 2013, 57, 2811-2819.	0.4	5
17	Atomistic Modeling and Ab Initio Calculations of Yttria-Stabilized Zirconia. ECS Transactions, 2013, 57, 2791-2797.	0.5	1
18		0.5	2

#	ARTICLE	IF	CITATIONS
19	On Accurate Approach for Molecular Dynamics Study of Ideal Strength at Elevated Temperature. Journal of Solid Mechanics and Materials Engineering, 2012, 6, 29-38.	0.5	4
20	Possible energy states of stoichiometric AB alloys based on fcc, bcc, and sc lattices. Crystallography Reports, 2012, 57, 746-750.	0.6	1
21	The equilibrium states of $A_{1-x}B_{1+x}$ binary alloys in the hard-sphere and pair-binding model. Russian Physics Journal, 2012, 54, 1128-1136.	0.4	1
22	Temperature effect on ideal shear strength of Al and Cu. Physical Review B, 2011, 84, .	3.2	45
23	Dynamics of edge dislocation clusters interacting with running acoustic waves. Discrete and Continuous Dynamical Systems - Series S, 2011, 4, 1079-1094.	1.1	1
24	Resonant interaction of edge dislocations with running acoustic waves. Modelling and Simulation in Materials Science and Engineering, 2010, 18, 025012.	2.0	9
25	Anti-Fermi-Pasta-Ulam energy recursion in diatomic lattices at low energy densities. Physical Review B, 2009, 80, .	3.2	16
26	Crowdion mobility and self-focusing in 3D and 2D nickel. Computational Materials Science, 2009, 47, 429-431.	3.0	19
27	Atomistic Model Analysis of Local and Global Instabilities in Crystals at Finite Temperature. Key Engineering Materials, 0, 592-593, 39-42.	0.4	0