Albert M Iskandarov

List of Publications by Year
in descending order

27	195	1163117 8	1058476 14
papers	citations	h-index	g-index

28	28	28	204
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Temperature effect on ideal shear strength of Al and Cu. Physical Review B, 2011, 84, .	3.2	45
2	Room-Temperature Fast H^{â€“} Conduction in Oxygen-Substituted Lanthanum Hydride. Journal of the American Chemical Society, 2022, 144, 1523-1527.	13.7	27
3	Crowdion mobility and self-focusing in 3D and 2D nickel. Computational Materials Science, 2009, 47, 429-431.	3.0	19
4	Anti-Fermi-Pasta-Ulam energy recursion in diatomic lattices at low energy densities. Physical Review B, 2009, 80, .	3.2	16
5	Atomic structure observations and reaction dynamics simulations on triple phase boundaries in solid-oxide fuel cells. Communications Chemistry, 2019, 2, .	4.5	16
6	Theoretical shear strength of FCC and HCP metals. Physics of the Solid State, 2014, 56, 423-428.	0.6	14
7	Resonant interaction of edge dislocations with running acoustic waves. Modelling and Simulation in Materials Science and Engineering, 2010, 18, 025012.	2.0	9
8	Characteristic mechanism for fast <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msup><mml:mi mathvariant="normal">H</mml:mi><mml:mo>â^'</mml:mo></mml:msup></mml:math> conduction in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si15.svg"><mml:mrow><mml:msub><mml:mtext>LaH</mml:mtext><mml:mrow><mml:mn>2.5</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>0.25</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>.	7.9	8
9	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.	0.4	5
10	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.	1.8	5
11	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
12	Atomistic modeling study of surface effect on oxide ion diffusion in yttria-stabilized zirconia. Solid State Ionics, 2015, 279, 46-52.	2.7	4
13	Dopant driven tuning of the hydrogen oxidation mechanism at the pore/nickel/zirconia triple phase boundary. Physical Chemistry Chemical Physics, 2018, 20, 12574-12588.	2.8	4
14	Development of a new dipole model: interatomic potential for yttria-stabilized zirconia for bulk and surface. Journal of Physics Condensed Matter, 2015, 27, 015005.	1.8	3
15	Reactive Force-Field Development for Metal/CeramicSOFC Anode Modeling. ECS Transactions, 2015, 68, 2943-2949.	0.5	3
16	First-Principles Study of Dopant Effect on Hydrogen Oxidation in Anode of Solid Oxide Fuel Cell. ECS Transactions, 2017, 78, 1469-1475.	0.5	3
17	Thermoactivated fracture of graphene subjected to tensile strain. Technical Physics Letters, 2013, 39, 185-188.	0.7	2
18	Atomistic Modeling and Ab Initio Calculations of Yttria-Stabilized Zirconia. ECS Transactions, 2013, 57, 2791-2797.	0.5	2

#	Article	IF	Citations
19	Possible energy states of stoichiometric AB alloys based on fcc, bcc, and sc lattices. Crystallography Reports, 2012, 57, 746-750.	0.6	1
20	The equilibrium states of A 1âˆ’x B 1+x binary alloys in the hard-sphere and pair-binding model. Russian Physics Journal, 2012, 54, 1128-1136.	0.4	1
21	Development of Interatomic Potential for Molecular Dynamics Simulation of Ni/YSZ Anode in Solid Oxide Fuel Cells. ECS Transactions, 2013, 57, 2811-2819.	0.5	1
22	Multi-Scale, Multi-Physics Approach for Solid Oxide Fuel Cell Anode Reaction. ECS Transactions, 2017, 78, 2835-2844.	0.5	1
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	Criteria of instability of copper and aluminium perfect crystals subjected to elastic deformation in the temperature range 0â€‰â€“â€‰400ÂK. Letters on Materials, 2019, 9, 265-269.	0.7	1
25	Atomistic Model Analysis of Local and Global Instabilities in Crystals at Finite Temperature. Key Engineering Materials, 0, 592-593, 39-42.	0.4	0
26	Molecular Dynamics Study of Ni/YSZ Systems Based on Improved Interatomic Model. ECS Transactions, 2015, 68, 2919-2925.	0.5	0
27	A Reactive Force Field (ReaxFF) for Molecular Dynamics Simulations of NiO Reduction in H2Environments. ECS Transactions, 2017, 78, 2765-2771.	0.5	0