Yury Lysogorskiy

List of Publications by Year
in descending order

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21	406	840776 11	752698 20
papers	citations	h-index	g-index

21	21	21	430
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient parametrization of the atomic cluster expansion. Physical Review Materials, 2022, 6, .	2.4	23
2	Crystallography companion agent for high-throughput materials discovery. Nature Computational Science, 2021, 1, 290-297.	8.0	38
3	Design of refractory compositionally complex alloys with optimal mechanical properties. Physical Review Materials, 2021, 5, .	2.4	7
4	Performant implementation of the atomic cluster expansion (PACE) and application to copper and silicon. Npj Computational Materials, 2021, 7, .	8.7	76
5	Angular-dependent interatomic potential for large-scale atomistic simulation of iron: Development and comprehensive comparison with existing interatomic models. Physical Review Materials, 2021, 5, .	2.4	18
6	Automated free-energy calculation from atomistic simulations. Physical Review Materials, 2021, 5, .	2.4	6
7	Optimized interatomic potential for study of structure and phase transitions in Si-Au and Si-Al systems. Computational Materials Science, 2020, 184, 109891.	3.0	26
8	Predicting structure zone diagrams for thin film synthesis by generative machine learning. Communications Materials, 2020, 1, .	6.9	27
9	pyiron: An integrated development environment for computational materials science. Computational Materials Science, 2019, 163, 24-36.	3.0	64
10	Crowd-sourcing materials-science challenges with the NOMAD 2018 Kaggle competition. Npj Computational Materials, 2019, 5, .	8.7	39
11	Phase transitions in titanium with an analytic bond-order potential. Modelling and Simulation in Materials Science and Engineering, 2019, 27, 085008.	2.0	3
12	Transferability of interatomic potentials for molybdenum and silicon. Modelling and Simulation in Materials Science and Engineering, 2019, 27, 025007.	2.0	17
13	Reconciling Experimental and Theoretical Data in the Structural Analysis of Tiâ€“Ta Shape-Memory Alloys. Shape Memory and Superelasticity, 2019, 5, 6-15.	2.2	5
14	BOPfox program for tight-binding and analytic bond-order potential calculations. Computer Physics Communications, 2019, 235, 221-233.	7.5	21
15	Oxygen vacancies and hydrogen doping in LaAlO3/SrTiO3 heterostructures: electronic properties and impact on surface and interface reconstruction. Journal of Physics Condensed Matter, 2019, 31, 295601.	1.8	14
16	Vibrational properties and lattice specific heat of KFeS2. AIP Conference Proceedings, 2018, , .	0.4	3
17	Vibrational properties and lattice specific heat of RbFeS2. AIP Conference Proceedings, 2018, , .	0.4	0
18	MÃ¶ssbauer spectroscopy evidence of intrinsic nonâ€stoichiometry in iron telluride single crystals. Annalen Der Physik, 2017, 529, 1600241.	2.4	3

#	Article	IF	Citations
19	Adsorption of Helium Atoms on Two-Dimensional Substrates. Journal of Low Temperature Physics, 2016, 185, 392-398.	1.4	2
20	Structural Transitions in a Quasi-1D Wigner Solid on Liquid Helium. Journal of Low Temperature Physics, 2016, 182, 28-37.	1.4	8
21	Quantum fluids in nanoporous mediaâ€”Effects of the confinement and fractal geometry. Science Bulletin, 2011, 56, 3617-3622.	1.7	6