Evgeny V Podryabinkin

List of Publications by Year
in descending order

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21 papers	1,915 citations	567281 15 h-index	794594 19 g-index
21 all docs	21 docs citations	21 times ranked	1549 citing authors

#	Article	IF	Citations
1	Active learning of linearly parametrized interatomic potentials. Computational Materials Science, 2017, 140, 171-180.	3.0	360
2	Accelerating crystal structure prediction by machine-learning interatomic potentials with active learning. Physical Review B, 2019, 99, .	3.2	229
3	Accelerating high-throughput searches for new alloys with active learning of interatomic potentials. Computational Materials Science, 2019, 156, 148-156.	3.0	218
4	The MLIP package: moment tensor potentials with MPI and active learning. Machine Learning: Science and Technology, 2021, 2, 025002.	5.0	181
5	Firstâ€Principles Multiscale Modeling of Mechanical Properties in Graphene/Borophene Heterostructures Empowered by Machineâ€Learning Interatomic Potentials. Advanced Materials, 2021, 33, e2102807.	21.0	171
6	Machine-learning interatomic potentials enable first-principles multiscale modeling of lattice thermal conductivity in graphene/borophene heterostructures. Materials Horizons, 2020, 7, 2359-2367.	12.2	124
7	Machine learning of molecular properties: Locality and active learning. Journal of Chemical Physics, 2018, 148, 241727.	3.0	116
8	Accelerating first-principles estimation of thermal conductivity by machine-learning interatomic potentials: A MTP/ShengBTE solution. Computer Physics Communications, 2021, 258, 107583.	7.5	108
9	Exploring phononic properties of two-dimensional materials using machine learning interatomic potentials. Applied Materials Today, 2020, 20, 100685.	4.3	96
10	Youngâ€™s Modulus and Tensile Strength of Ti₃C₂ MXene Nanosheets As Revealed by <i>In Situ</i> TEM Probing, AFM Nanomechanical Mapping, and Theoretical Calculations. Nano Letters, 2020, 20, 5900-5908.	9.1	88
11	Moment tensor potentials as a promising tool to study diffusion processes. Computational Materials Science, 2019, 164, 46-56.	3.0	65
12	High thermal conductivity in semiconducting Janus and non-Janus diamanes. Carbon, 2020, 167, 51-61.	10.3	39
13	Efficient machine-learning based interatomic potentialsfor exploring thermal conductivity in two-dimensional materials. JPhys Materials, 2020, 3, 02LT02.	4.2	32
14	Elinvar effect in Î²-Ti simulated by on-the-fly trained moment tensor potential. New Journal of Physics, 2020, 22, 113005.	2.9	20
15	Modeling of steady Herschelâ€"Bulkley fluid flow over a sphere. Journal of Engineering Thermophysics, 2017, 26, 197-215.	1.4	16
16	Active Learning and Uncertainty Estimation. Lecture Notes in Physics, 2020, , 309-329.	0.7	13
17	Moment and forces exerted on the inner cylinder in eccentric annular flow. Journal of Engineering Thermophysics, 2011, 20, 320-328.	1.4	12
18	Nanohardness from First Principles with Active Learning on Atomic Environments. Journal of Chemical Theory and Computation, 2022, 18, 1109-1121.	5.3	10

#	Article	IF	Citations
19	Detailed Modeling of Drilling Fluid Flow in a Wellbore Annulus While Drilling. , 2013, , .		8
20	Modeling of turbulent annular flows of Hershel-Bulkley fluids with eccentricity and inner cylinder rotation. Journal of Engineering Thermophysics, 2014, 23, 137-147.	1.4	6
21	Evaluation of Pressure Change While Steady-State Tripping. , 2014, , .		3