

Sergey I Morozov

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

599
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687363

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32
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32
docs citations

32
times ranked

845
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating the lower-limit of fracture toughness from ideal-strength calculations. <i>Materials Horizons</i> , 2022, 9, 825-834.	12.2	4
2	Deformation and Failure Mechanisms of Thermoelectric Type-I Clathrate Ba ₈ Au ₆ Ge ₄₀ . <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4326-4334.	8.0	1
3	Enhancing the shear strength of single-crystalline In ₄ Se ₃ through point defects. <i>Scripta Materialia</i> , 2022, 211, 114507.	5.2	2
4	Nanotwin-induced ductile mechanism in thermoelectric semiconductor PbTe. <i>Matter</i> , 2022, 5, 1839-1852.	10.0	10
5	Atomistic explanation of failure mechanisms of thermoelectric type-VIII clathrate Ba ₈ Ga ₁₆ Sn ₃₀ . <i>Materials Today Communications</i> , 2022, 31, 103605.	1.9	0
6	Proton transport mechanism and pathways in the superprotonic phase of M ₃ H(AO ₄) ₂ solid acids from ab initio molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17026-17032.	2.8	1
7	Reduction of N ₂ to Ammonia by Phosphate Molten Salt and Li Electrode: Proof of Concept Using Quantum Mechanics. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1696-1701.	4.6	6
8	Fracture toughness of thermoelectric materials. <i>Materials Science and Engineering Reports</i> , 2021, 144, 100607.	31.8	39
9	Reaction Mechanism and Energetics of Decomposition of Tetrakis(1,3-dimethyltetrazol-5-imidoperchloratomanganese(II)) from Quantum-Mechanics-based Reactive Dynamics. <i>Journal of the American Chemical Society</i> , 2021, 143, 16960-16975.	13.7	3
10	Intrinsic mechanical behavior of MgAgSb thermoelectric material: An ab initio study. <i>Journal of Materiomics</i> , 2020, 6, 24-32.	5.7	5
11	The Mechanism of Deformation and Failure of In ₄ Se ₃ Based Thermoelectric Materials. <i>ACS Applied Energy Materials</i> , 2020, 3, 1054-1062.	5.1	3
12	Design of a Graphene Nitrene Two-Dimensional Catalyst Heterostructure Providing a Well-Defined Site Accommodating One to Three Metals, with Application to CO ₂ Reduction Electrocatalysis for the Two-Metal Case. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2541-2549.	4.6	51
13	Characterizing local metallic bonding variation induced by external perturbation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2372-2378.	2.8	3
14	Li-diffusion at the interface between Li-metal and [Pyr ₁₄][TFSI]-ionic liquid: <i>Ab initio</i> molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2020, 152, 031101.	3.0	9
15	Interface Structure in Li-Metal/[Pyr ₁₄][TFSI]-Ionic Liquid System from ab Initio Molecular Dynamics Simulations. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4577-4586.	4.6	31
16	Li, An, and Morozov Reply:. <i>Physical Review Letters</i> , 2019, 123, 119602.	7.8	2
17	Photomechanical effect leading to extraordinary ductility in covalent semiconductors. <i>Physical Review B</i> , 2019, 100, .	3.2	11
18	Dramatically reduced lattice thermal conductivity of Mg ₂ Si thermoelectric material from nanotwinning. <i>Acta Materialia</i> , 2019, 169, 9-14.	7.9	30

