

Paolo Nicolini

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

857
citations

623734

14
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

911
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and simulation in tribology across scales: An overview. <i>Tribology International</i> , 2018, 125, 169-199.	5.9	335
2	Ultra-low friction and edge-pinning effect in large-lattice-mismatch van der Waals heterostructures. <i>Nature Materials</i> , 2022, 21, 47-53.	27.5	110
3	Toward quantitative estimates of binding affinities for protein-ligand systems involving large inhibitor compounds: A steered molecular dynamics simulation route. <i>Journal of Computational Chemistry</i> , 2013, 34, 1561-1576.	3.3	41
4	A comparison of empirical potentials for sliding simulations of MoS ₂ . <i>Computational Materials Science</i> , 2016, 115, 158-169.	3.0	38
5	Nanoscale frictional properties of ordered and disordered MoS ₂ . <i>Tribology International</i> , 2019, 136, 67-74.	5.9	37
6	Structural Ordering of Molybdenum Disulfide Studied via Reactive Molecular Dynamics Simulations. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8937-8946.	8.0	34
7	On the lubricity of transition metal dichalcogenides: an ab initio study. <i>Nanoscale</i> , 2017, 9, 5597-5607.	5.6	32
8	Exploiting Configurational Freezing in Nonequilibrium Monte Carlo Simulations. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 582-593.	5.3	29
9	Superlubricity achieved for commensurate sliding: MoS ₂ frictional anisotropy in silico. <i>Computational Materials Science</i> , 2019, 163, 17-23.	3.0	24
10	Viewpoint: Atomic-Scale Design Protocols toward Energy, Electronic, Catalysis, and Sensing Applications. <i>Inorganic Chemistry</i> , 2019, 58, 14939-14980.	4.0	23
11	Atomic-scale design of friction and energy dissipation. <i>Physical Review B</i> , 2019, 99, .	3.2	23
12	Hummer and Szabo-like Potential of Mean Force Estimator for Bidirectional Nonequilibrium Pulling Experiments/Simulations. <i>Journal of Physical Chemistry B</i> , 2010, 114, 9546-9554.	2.6	20
13	Improving fast-switching free energy estimates by dynamical freezing. <i>Physical Review E</i> , 2009, 80, 041124.	2.1	17
14	Exploring the Stability of Twisted van der Waals Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45214-45221.	8.0	14
15	Features in chemical kinetics. II. A self-emerging definition of slow manifolds. <i>Journal of Chemical Physics</i> , 2013, 138, 234102.	3.0	13
16	Features in chemical kinetics. I. Signatures of self-emerging dimensional reduction from a general format of the evolution law. <i>Journal of Chemical Physics</i> , 2013, 138, 234101.	3.0	10
17	Shortcomings of the standard Lennard-Jones dispersion term in water models, studied with force matching. <i>Journal of Chemical Physics</i> , 2013, 139, 184111.	3.0	10
18	The force matching approach to multiscale simulations: Merits, shortcomings, and future perspectives. <i>International Journal of Quantum Chemistry</i> , 2014, 114, 1036-1040.	2.0	9

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19	New Reactive Force Field for Simulations of MoS ₂ Crystallization. Journal of Physical Chemistry C, 2022, 126, 9475-9481.	3.1	9
20	Exploring Nanoscale Lubrication Mechanisms of Multilayer MoS ₂ During Sliding: The Effect of Humidity. Frontiers in Chemistry, 2021, 9, 684441.	3.6	8
21	Features in chemical kinetics. III. Attracting subspaces in a hyper-spherical representation of the reactive system. Journal of Chemical Physics, 2015, 143, 224109.	3.0	6
22	A Low-Computational-Cost Strategy to Localize Points in the Slow Manifold Proximity for Isothermal Chemical Kinetics. International Journal of Chemical Kinetics, 2017, 49, 477-493.	1.6	5
23	Stochastic thermodynamics of nanoscale friction. Physical Review E, 2021, 103, 052104.	2.1	4
24	Attracting subspaces in a hyper-spherical representation of autonomous dynamical systems. Journal of Mathematical Physics, 2017, 58, .	1.1	3
25	Recasting the mass-action rate equations of open chemical reaction networks into a universal quadratic format. Journal of Mathematical Chemistry, 2019, 57, 1001-1018.	1.5	3