

Davide Mandelli

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

889
citations

759233

12
h-index

888059

17
g-index

19
all docs

19
docs citations

19
times ranked

853
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust microscale superlubricity in graphite/hexagonal boron nitride layered heterojunctions. Nature Materials, 2018, 17, 894-899.	27.5	292
2	Sliding friction of graphene/hexagonal boron nitride heterojunctions: a route to robust superlubricity. Scientific Reports, 2017, 7, 10851.	3.3	108
3	Nanoserpents: Graphene Nanoribbon Motion on Two-Dimensional Hexagonal Materials. Nano Letters, 2018, 18, 6009-6016.	9.1	104
4	Emergent D_{6h} symmetry in fully relaxed magic-angle twisted bilayer graphene. Physical Review B, 2018, 98, .	8.2	66
5	Negative Friction Coefficients in Superlubric Graphite-Hexagonal Boron Nitride Heterojunctions. Physical Review Letters, 2019, 122, 076102.	7.8	63
6	Static friction scaling of physisorbed islands: the key is in the edge. Nanoscale, 2015, 7, 2093-2101.	5.6	48
7	Mechanical and Tribological Properties of Layered Materials under High Pressure: Assessing the Importance of Many-Body Dispersion Effects. Journal of Chemical Theory and Computation, 2020, 16, 666-676.	5.3	39
8	Superlubric-pinned transition in sliding incommensurate colloidal monolayers. Physical Review B, 2015, 92, .	3.2	26
9	Friction Boosted by Equilibrium Misalignment of Incommensurate Two-Dimensional Colloid Monolayers. Physical Review Letters, 2015, 114, 108302.	7.8	25
10	Enhanced-Sampling Simulations for the Estimation of Ligand Binding Kinetics: Current Status and Perspective. Frontiers in Molecular Biosciences, 0, 9, .	3.5	24
11	The Princess and the Nanoscale Pea: Long-Range Penetration of Surface Distortions into Layered Materials Stacks. ACS Nano, 2019, 13, 7603-7609.	14.6	23
12	Stick-slip nanofriction in trapped cold ion chains. Physical Review B, 2013, 87, .	3.2	21
13	Metadynamics of Paths. Physical Review Letters, 2020, 125, 026001.	7.8	20
14	Density functional study of the TiN/Ge ₂ Sb ₂ Te ₅ interface. Physica Status Solidi (B): Basic Research, 2012, 249, 2140-2144.	1.5	9
15	Finite-temperature phase diagram and critical point of the Aubry pinned-sliding transition in a two-dimensional monolayer. Physical Review B, 2017, 95, .	3.2	8
16	Static friction boost in edge-driven incommensurate contacts. Physical Review Materials, 2018, 2, .	2.4	7
17	Microscopic friction emulators. Nature, 2015, 526, 332-333.	27.8	6
18	Friction of physisorbed nanotubes: rolling or sliding?. Nanoscale, 2020, 12, 13046-13054.	5.6	2

#	ARTICLE	IF	CITATIONS
19	A modified nudged elastic band algorithm with adaptive spring lengths. Journal of Chemical Physics, 2021, 155, 074103.	3.0	0