

Andrea Vanossi

List of Publications by Year in descending order

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48
papers

1,669
citations

304743

22
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289244

40
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49
all docs

49
docs citations

49
times ranked

1403
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Friction Enhancement in Zwitterionic Monolayers. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2797-2805.	3.1	4
2	Critical Peeling of Tethered Nanoribbons. <i>Nanoscale</i> , 2022, , .	5.6	1
3	Understanding the rheology of nanocontacts. <i>Nature Communications</i> , 2022, 13, 2428.	12.8	1
4	Moiré-Pattern Evolution Couples Rotational and Translational Friction at Crystalline Interfaces. <i>Physical Review X</i> , 2022, 12, .	8.9	5
5	Amplitude nanofriction spectroscopy. <i>Nanoscale</i> , 2021, 13, 1955-1960.	5.6	2
6	Pervasive orientational and directional locking at geometrically heterogeneous sliding interfaces. <i>Physical Review E</i> , 2021, 103, 012606.	2.1	3
7	Graphite superlubricity enabled by triboinduced nanocontacts. <i>Carbon</i> , 2021, 184, 875-890.	10.3	7
8	Structural lubricity in soft and hard matter systems. <i>Nature Communications</i> , 2020, 11, 4657.	12.8	62
9	Pile-up transmission and reflection of topological defects at grain boundaries in colloidal crystals. <i>Nature Communications</i> , 2020, 11, 3079.	12.8	6
10	Modeling nanoribbon peeling. <i>Nanoscale</i> , 2019, 11, 17396-17400.	5.6	6
11	Orientational and directional locking of colloidal clusters driven across periodic surfaces. <i>Nature Physics</i> , 2019, 15, 776-780.	16.7	29
12	Detachment Dynamics of Graphene Nanoribbons on Gold. <i>ACS Nano</i> , 2019, 13, 689-697.	14.6	14
13	Lifted graphene nanoribbons on gold: from smooth sliding to multiple stick-slip regimes. <i>Nanoscale</i> , 2018, 10, 2073-2080.	5.6	17
14	Experimental Observation of the Aubry Transition in Two-Dimensional Colloidal Monolayers. <i>Physical Review X</i> , 2018, 8, .	8.9	33
15	Recent highlights in nanoscale and mesoscale friction. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1995-2014.	2.8	27
16	Static friction boost in edge-driven incommensurate contacts. <i>Physical Review Materials</i> , 2018, 2, .	2.4	7
17	Current trends in the physics of nanoscale friction. <i>Advances in Physics: X</i> , 2017, 2, 569-590.	4.1	27
18	Graphene on h-BN: to align or not to align?. <i>Nanoscale</i> , 2017, 9, 8799-8804.	5.6	23

#	ARTICLE	IF	CITATIONS
19	Graphene nanoribbons on gold: understanding superlubricity and edge effects. <i>2D Materials</i> , 2017, 4, 045003.	4.4	43
20	Finite-temperature phase diagram and critical point of the Aubry pinned-sliding transition in a two-dimensional monolayer. <i>Physical Review B</i> , 2017, 95, .	3.2	8
21	Smallest Archimedean Screw: Facet Dynamics and Friction in Multiwalled Nanotubes. <i>Nano Letters</i> , 2017, 17, 5321-5328.	9.1	16
22	Subharmonic Shapiro steps of sliding colloidal monolayers in optical lattices. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 134006.	1.8	11
23	Slider thickness promotes lubricity: from 2D islands to 3D clusters. <i>Nanoscale</i> , 2016, 8, 11108-11113.	5.6	23
24	Multiwalled nanotube faceting unravelled. <i>Nature Nanotechnology</i> , 2016, 11, 1082-1086.	31.5	47
25	Friction and nonlinear dynamics. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 293001.	1.8	19
26	Friction and adhesion mediated by supramolecular host-guest complexes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9248-9254.	2.8	11
27	Superlubric-pinned transition in sliding incommensurate colloidal monolayers. <i>Physical Review B</i> , 2015, 92, .	3.2	26
28	The breakdown of superlubricity by driving-induced commensurate dislocations. <i>Scientific Reports</i> , 2015, 5, 16134.	3.3	17
29	Squeezout phenomena and boundary layer formation of a model ionic liquid under confinement and charging. <i>Journal of Chemical Physics</i> , 2015, 142, 064707.	3.0	38
30	Frictional transition from superlubric islands to pinned monolayers. <i>Nature Nanotechnology</i> , 2015, 10, 714-718.	31.5	33
31	Critical Length Limiting Superlow Friction. <i>Physical Review Letters</i> , 2015, 114, 055501.	7.8	51
32	Friction Boosted by Equilibrium Misalignment of Incommensurate Two-Dimensional Colloid Monolayers. <i>Physical Review Letters</i> , 2015, 114, 108302.	7.8	25
33	Static friction scaling of physisorbed islands: the key is in the edge. <i>Nanoscale</i> , 2015, 7, 2093-2101.	5.6	48
34	Nanotribology: Nonlinear Mechanisms of Friction. <i>Nanoscience and Technology</i> , 2015, , 175-208.	1.5	4
35	Stick-slip nanofriction in trapped cold ion chains. <i>Physical Review B</i> , 2013, 87, .	3.2	21
36	<i>Colloquium</i>: Modeling friction: From nanoscale to mesoscale. <i>Reviews of Modern Physics</i> , 2013, 85, 529-552.	45.6	436

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37	Static and dynamic friction in sliding colloidal monolayers. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16429-16433.	7.1	81
38	Triggering Frictional Slip by Mechanical Vibrations. Tribology Letters, 2012, 48, 95-102.	2.6	18
39	Kinks in motion. Nature Materials, 2012, 11, 97-98.	27.5	20
40	Nanofriction in cold ion traps. Nature Communications, 2011, 2, 236.	12.8	76
41	Ballistic nanofriction. Nature Materials, 2010, 9, 634-637.	27.5	98
42	Origin of Friction Anisotropy on a Quasicrystal Surface. Physical Review Letters, 2010, 104, 074302.	7.8	29
43	Parameter-free dissipation in simulated sliding friction. Physical Review B, 2010, 82, .	3.2	34
44	Suppression of Friction by Mechanical Vibrations. Physical Review Letters, 2009, 103, 085502.	7.8	68
45	Adhesion detachment and movement of gold nanoclusters induced by dynamic atomic force microscopy. Journal of Physics Condensed Matter, 2008, 20, 354011.	1.8	10
46	Controlling microscopic friction through mechanical oscillations. Physical Review E, 2008, 78, 036110.	2.1	25
47	Driven dynamics of simplified tribological models. Journal of Physics Condensed Matter, 2007, 19, 305017.	1.8	48
48	Nonlinear mobility of a driven system: Temperature and disorder effects. Surface Science, 2007, 601, 3676-3681.	1.9	11