

Alberto Giacomello

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8490878/publications.pdf>

Version: 2024-02-01

40
papers

1,316
citations

393982

19
h-index

344852

36
g-index

40
all docs

40
docs citations

40
times ranked

1244
citing authors

#	ARTICLE	IF	CITATIONS
1	Cassie-Baxter and Wenzel States on a Nanostructured Surface: Phase Diagram, Metastabilities, and Transition Mechanism by Atomistic Free Energy Calculations. <i>Langmuir</i> , 2012, 28, 10764-10772.	1.6	179
2	Metastable Wetting on Superhydrophobic Surfaces: Continuum and Atomistic Views of the Cassie-Baxter-Wenzel Transition. <i>Physical Review Letters</i> , 2012, 109, 226102.	2.9	131
3	Underwater energy harvesting from a heavy flag hosting ionic polymer metal composites. <i>Journal of Applied Physics</i> , 2011, 109, 084903.	1.1	126
4	Collapse and Reversibility of the Superhydrophobic State on Nanotextured Surfaces. <i>Physical Review Letters</i> , 2014, 112, .	2.9	114
5	Intrusion and extrusion of water in hydrophobic nanopores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E10266-E10273.	3.3	66
6	Wetting hysteresis induced by nanodefects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E262-71.	3.3	63
7	Hierarchical macro-nanoporous metals for leakage-free high-thermal conductivity shape-stabilized phase change materials. <i>Applied Energy</i> , 2020, 269, 115088.	5.1	52
8	Geometry as a Catalyst: How Vapor Cavities Nucleate from Defects. <i>Langmuir</i> , 2013, 29, 14873-14884.	1.6	49
9	Unraveling the Salvinia Paradox: Design Principles for Submerged Superhydrophobicity. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500248.	1.9	39
10	Focus Article: Theoretical aspects of vapor/gas nucleation at structured surfaces. <i>Journal of Chemical Physics</i> , 2016, 145, 211802.	1.2	37
11	Mechanism of the Cassie-Wenzel transition via the atomistic and continuum string methods. <i>Journal of Chemical Physics</i> , 2015, 142, 104701.	1.2	35
12	Wetting and cavitation pathways on nanodecorated surfaces. <i>Soft Matter</i> , 2016, 12, 3046-3055.	1.2	29
13	Self-Recovery Superhydrophobic Surfaces: Modular Design. <i>ACS Nano</i> , 2018, 12, 359-367.	7.3	29
14	The interplay among gas, liquid and solid interactions determines the stability of surface nanobubbles. <i>Nanoscale</i> , 2020, 12, 22698-22709.	2.8	27
15	Perpetual superhydrophobicity. <i>Soft Matter</i> , 2016, 12, 8927-8934.	1.2	26
16	Pore Morphology Determines Spontaneous Liquid Extrusion from Nanopores. <i>ACS Nano</i> , 2019, 13, 1728-1738.	7.3	25
17	Giant Negative Compressibility by Liquid Intrusion into Superhydrophobic Flexible Nanoporous Frameworks. <i>Nano Letters</i> , 2021, 21, 2848-2853.	4.5	24
18	Pressure effects on water slippage over silane-coated rough surfaces: pillars and holes. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 1009-1018.	1.0	20

#	ARTICLE	IF	CITATIONS
19	Recovering superhydrophobicity in nanoscale and macroscale surface textures. <i>Soft Matter</i> , 2019, 15, 7462-7471.	1.2	20
20	Pressure control in interfacial systems: Atomistic simulations of vapor nucleation. <i>Journal of Chemical Physics</i> , 2018, 148, 064706.	1.2	19
21	Collapse of superhydrophobicity on nanopillared surfaces. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	19
22	Intrusion and extrusion of a liquid on nanostructured surfaces. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 014003.	0.7	18
23	Gas-Induced Drying of Nanopores. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9171-9177.	2.1	18
24	Liquid intrusion in and extrusion from non-wettable nanopores for technological applications. <i>European Physical Journal B</i> , 2021, 94, 1.	0.6	18
25	Viscosity at the Nanoscale: Confined Liquid Dynamics and Thermal Effects in Self-Recovering Nanobumpers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14248-14256.	1.5	15
26	Bubble formation in nanopores: a matter of hydrophobicity, geometry, and size. <i>Advances in Physics: X</i> , 2020, 5, 1817780.	1.5	15
27	Vapor nucleation paths in lyophobic nanopores. <i>European Physical Journal E</i> , 2018, 41, 52.	0.7	14
28	Wetting and recovery of nano-patterned surfaces beyond the classical picture. <i>Nanoscale</i> , 2019, 11, 21458-21470.	2.8	14
29	Tempering of Au nanoclusters: capturing the temperature-dependent competition among structural motifs. <i>Nanoscale</i> , 2022, 14, 939-952.	2.8	14
30	Activated Wetting of Nanostructured Surfaces: Reaction Coordinates, Finite Size Effects, and Simulation Pitfalls. <i>Journal of Physical Chemistry B</i> , 2018, 122, 200-212.	1.2	11
31	Water slippage on hydrophobic nanostructured surfaces: molecular dynamics results for different filling levels. <i>Meccanica</i> , 2013, 48, 1853-1861.	1.2	9
32	Computational methods and theory for ion channel research. <i>Advances in Physics: X</i> , 2022, 7, .	1.5	8
33	Structure and dynamics of water confined in cylindrical nanopores with varying hydrophobicity. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200403.	1.6	7
34	Molecular dynamics simulations suggest possible activation and deactivation pathways in the hERG channel. <i>Communications Biology</i> , 2022, 5, 165.	2.0	6
35	Exploring Kv1.2 Channel Inactivation Through MD Simulations and Network Analysis. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 784276.	1.6	5
36	Unveiling the Gating Mechanism of CRAC Channel: A Computational Study. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 773388.	1.6	5

#	ARTICLE	IF	CITATIONS
37	Energy harvesting from flutter instabilities of heavy flags in water through ionic polymer metal composites. Proceedings of SPIE, 2011, , .	0.8	4
38	Can One Predict a Drop Contact Angle?. Advanced Materials Interfaces, 2021, 8, 2101005.	1.9	3
39	How to control bubble nucleation from superhydrophobic surfaces. Journal of Physics: Conference Series, 2015, 656, 012124.	0.3	2
40	Intrinsic and apparent slip at gas-enriched liquid-liquid interfaces: a molecular dynamics study. Journal of Fluid Mechanics, 2022, 938, .	1.4	1