# Alberto Giacomello

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Tempering of Au nanoclusters: capturing the temperature-dependent competition among structural motifs. Nanoscale, 2022, 14, 939-952. | 2.8 | 14 |
| 2 | Molecular dynamics simulations suggest possible activation and deactivation pathways in the hERG channel. Communications Biology, 2022, 5, 165. | 2.0 | 6 |
| 3 | Intrinsic and apparent slip at gas-enriched liquidâ€"liquid interfaces: a molecular dynamics study. Journal of Fluid Mechanics, 2022, 938, . | 1.4 | 1 |
| 4 | Computational methods and theory for ion channel research. Advances in Physics: X, 2022, 7, . | 1.5 | 8 |
| 5 | Giant Negative Compressibility by Liquid Intrusion into Superhydrophobic Flexible Nanoporous Frameworks. Nano Letters, 2021, 21, 2848-2853. | 4.5 | 24 |
| 6 | Structure and dynamics of water confined in cylindrical nanopores with varying hydrophobicity. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200403. | 1.6 | 7 |
| 7 | Liquid intrusion in and extrusion from non-wettable nanopores for technological applications. European Physical Journal B, 2021, 94, 1. | 0.6 | 18 |
| 8 | Can One Predict a Drop Contact Angle?. Advanced Materials Interfaces, 2021, 8, 2101005. | 1.9 | 3 |
| 9 | Exploring Kv1.2 Channel Inactivation Through MD Simulations and Network Analysis. Frontiers in Molecular Biosciences, 2021, 8, 784276. | 1.6 | 5 |
| 10 | Unveiling the Gating Mechanism of CRAC Channel: A Computational Study. Frontiers in Molecular Biosciences, 2021, 8, 773388. | 1.6 | 5 |
| 11 | Bubble formation in nanopores: a matter of hydrophobicity, geometry, and size. Advances in Physics: X, 2020, 5, 1817780. | 1.5 | 15 |
| 12 | Gas-Induced Drying of Nanopores. Journal of Physical Chemistry Letters, 2020, 11, 9171-9177. | 2.1 | 18 |
| 13 | The interplay among gas, liquid and solid interactions determines the stability of surface nanobubbles. Nanoscale, 2020, 12, 22698-22709. | 2.8 | 27 |
| 14 | Hierarchical macro-nanoporous metals for leakage-free high-thermal conductivity shape-stabilized phase change materials. Applied Energy, 2020, 269, 115088. | 5.1 | 52 |
| 15 | Recovering superhydrophobicity in nanoscale and macroscale surface textures. Soft Matter, 2019, 15, 7462-7471. | 1.2 | 20 |
| 16 | Wetting and recovery of nano-patterned surfaces beyond the classical picture. Nanoscale, 2019, 11, 21458-21470. | 2.8 | 14 |
| 17 | Pore Morphology Determines Spontaneous Liquid Extrusion from Nanopores. ACS Nano, 2019, 13, 1728-1738. | 7.3 | 25 |
| 18 | Pressure control in interfacial systems: Atomistic simulations of vapor nucleation. Journal of Chemical Physics, 2018, 148, 064706. | 1.2 | 19 |

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|---|---|---|---|
| 19 | Self-Recovery Superhydrophobic Surfaces: Modular Design. ACS Nano, 2018, 12, 359-367. | 7.3 | 29 |
| 20 | Activated Wetting of Nanostructured Surfaces: Reaction Coordinates, Finite Size Effects, and Simulation Pitfalls. Journal of Physical Chemistry B, 2018, 122, 200-212. | 1.2 | 11 |
| 21 | Vapor nucleation paths in lyophobic nanopores. European Physical Journal E, 2018, 41, 52. | 0.7 | 14 |
| 22 | Viscosity at the Nanoscale: Confined Liquid Dynamics and Thermal Effects in Self-Recovering Nanobumpers. Journal of Physical Chemistry C, 2018, 122, 14248-14256. | 1.5 | 15 |
| 23 | Intrusion and extrusion of a liquid on nanostructured surfaces. Journal of Physics Condensed Matter, 2017, 29, 014003. | 0.7 | 18 |
| 24 | Intrusion and extrusion of water in hydrophobic nanopores. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10266-E10273. | 3.3 | 66 |
| 25 | Collapse of superhydrophobicity on nanopillared surfaces. Physical Review Fluids, 2017, 2, . | 1.0 | 19 |
| 26 | Focus Article: Theoretical aspects of vapor/gas nucleation at structured surfaces. Journal of Chemical Physics, 2016, 145, 211802. | 1.2 | 37 |
| 27 | Perpetual superhydrophobicity. Soft Matter, 2016, 12, 8927-8934. | 1.2 | 26 |
| 28 | Wetting and cavitation pathways on nanodecorated surfaces. Soft Matter, 2016, 12, 3046-3055. | 1.2 | 29 |
| 29 | Wetting hysteresis induced by nanodefects. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E262-71. | 3.3 | 63 |
| 30 | Mechanism of the Cassie-Wenzel transition via the atomistic and continuum string methods. Journal of Chemical Physics, 2015, 142, 104701. | 1.2 | 35 |
| 31 | How to control bubble nucleation from superhydrophobic surfaces. Journal of Physics: Conference Series, 2015, 656, 012124. | 0.3 | 2 |
| 32 | Unraveling the Salvinia Paradox: Design Principles for Submerged Superhydrophobicity. Advanced Materials Interfaces, 2015, 2, 1500248. | 1.9 | 39 |
| 33 | Collapse and Reversibility of the Superhydrophobic State on Nanotextured Surfaces. Physical Review Letters, 2014, 112, . | 2.9 | 114 |
| 34 | Pressure effects on water slippage over silane-coated rough surfaces: pillars and holes. Microfluidics and Nanofluidics, 2014, 16, 1009-1018. | 1.0 | 20 |
| 35 | Water slippage on hydrophobic nanostructured surfaces: molecular dynamics results for different filling levels. Meccanica, 2013, 48, 1853-1861. | 1.2 | 9 |
| 36 | Geometry as a Catalyst: How Vapor Cavities Nucleate from Defects. Langmuir, 2013, 29, 14873-14884. | 1.6 | 49 |

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| 37 | Metastable Wetting on Superhydrophobic Surfaces: Continuum and Atomistic Views of the Cassie-Baxterâ€"Wenzel Transition. Physical Review Letters, 2012, 109, 226102. | 2.9 | 131 |
| 38 | Cassieâ€"Baxter and Wenzel States on a Nanostructured Surface: Phase Diagram, Metastabilities, and Transition Mechanism by Atomistic Free Energy Calculations. Langmuir, 2012, 28, 10764-10772. | 1.6 | 179 |
| 39 | Underwater energy harvesting from a heavy flag hosting ionic polymer metal composites. Journal of Applied Physics, 2011, 109, 084903. | 1.1 | 126 |
| 40 | Energy harvesting from flutter instabilities of heavy flags in water through ionic polymer metal composites. Proceedings of SPIE, 2011, , . | 0.8 | 4 |