

Pietro Ballone

List of Publications by Year in descending order

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35
papers

1,536
citations

430874

18
h-index

377865

34
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38
all docs

38
docs citations

38
times ranked

1421
citing authors

#	ARTICLE	IF	CITATIONS
1	First-principles wave-vector- and frequency-dependent exchange-correlation kernel for jellium at all densities. <i>Physical Review B</i> , 2022, 105, .	3.2	7
2	Thermoresponsive Ionic Liquid/Water Mixtures: From Nanostructuring to Phase Separation. <i>Molecules</i> , 2022, 27, 1647.	3.8	14
3	Absorption of Phosphonium Cations and Dications into a Hydrated POPC Phospholipid Bilayer: A Computational Study. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4272-4288.	2.6	5
4	Computational analysis of the effect of [Tea][Ms] and [Tea][H ₂ PO ₄] ionic liquids on the structure and stability of A β (17-42) amyloid fibrils. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6695-6709.	2.8	6
5	The transition from salt-in-water to water-in-salt nanostructures in water solutions of organic ionic liquids relevant for biological applications. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 944-959.	2.8	19
6	Morphology of Nanometric Overlayers Made of Porphyrin-Type Molecules Physisorbed on Cellulose β Crystals and Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11432-11443.	2.6	6
7	Coarse-Grained Model of Entropy-Driven Demixing. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9267-9274.	2.6	3
8	Solubility Advantage of Amorphous Ketoprofen. Thermodynamic and Kinetic Aspects by Molecular Dynamics and Free Energy Approaches. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 4126-4140.	5.3	3
9	Surface of Half-Neutralized Diamine Triflate Ionic Liquids. A Molecular Dynamics Study of Structure, Thermodynamics, and Kinetics of Water Absorption and Evaporation. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8457-8471.	2.6	3
10	Equilibrium Structure, Hydrogen Bonding, and Proton Conductivity in Half-Neutralized Diamine Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5608-5625.	2.6	3
11	Room-Temperature Ionic Liquids and Biomembranes: Setting the Stage for Applications in Pharmacology, Biomedicine, and Bionanotechnology. <i>Langmuir</i> , 2018, 34, 9579-9597.	3.5	60
12	Structure and dynamics of biomembranes in room-temperature ionic liquid water solutions studied by neutron scattering and by molecular dynamics simulations. <i>AIP Conference Proceedings</i> , 2018, .	0.4	0
13	Density Functional Computations and Molecular Dynamics Simulations of the Triethylammonium Triflate Protic Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2017, 121, 11410-11423.	2.6	8
14	Molecular Dynamics Simulations of Metal/Molten Alkali Carbonate Interfaces. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17827-17847.	3.1	13
15	Room temperature ionic liquids interacting with bio-molecules: an overview of experimental and computational studies. <i>Philosophical Magazine</i> , 2016, 96, 870-894.	1.6	38
16	Room Temperature Ionic Liquids Meet Biomolecules: A Microscopic View of Structure and Dynamics. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 392-412.	6.7	148
17	Creep rupture of fiber bundles: A molecular dynamics investigation. <i>Physical Review E</i> , 2015, 92, 022405.	2.1	9
18	Structure and dynamics of POPC bilayers in water solutions of room temperature ionic liquids. <i>Journal of Chemical Physics</i> , 2015, 142, 124706.	3.0	59

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19	Structure and Stability of Phospholipid Bilayers Hydrated by a Room-Temperature Ionic Liquid/Water Solution: A Neutron Reflectometry Study. <i>Journal of Physical Chemistry B</i> , 2014, 118, 12192-12206.	2.6	82
20	Ab initio simulations of thermal decomposition and of electron transfer reactions in room temperature ionic liquids. <i>Faraday Discussions</i> , 2012, 154, 373-389.	3.2	16
21	Nano-indentation of a room-temperature ionic liquid film on silica: a computational experiment. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2475.	2.8	17
22	Computational Study of Room-Temperature Ionic Liquids Interacting with a POPC Phospholipid Bilayer. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11205-11216.	2.6	75
23	The glass transition and the distribution of voids in room-temperature ionic liquids: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2012, 136, 204510.	3.0	19
24	Computational Verification of Two Universal Relations for Simple Ionic Liquids. Kinetic Properties of a Model 2:1 Molten Salt. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4927-4938.	2.6	13
25	Thermodynamic properties and atomistic structure of the dry amorphous silica surface from a reactive force field model. <i>Physical Review B</i> , 2010, 81, .	3.2	16
26	Interaction of Room Temperature Ionic Liquid Solutions with a Cholesterol Bilayer. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11642-11648.	2.6	39
27	Ion Association in [bmim][PF ₆]/Naphthalene Mixtures: An Experimental and Computational Study. <i>Journal of the American Chemical Society</i> , 2008, 130, 7032-7041.	13.7	72
28	Local and semilocal density functional computations for crystals of 1-alkyl-3-methyl-imidazolium salts. <i>Journal of Chemical Physics</i> , 2007, 126, 144705.	3.0	20
29	Neutral and Charged 1-Butyl-3-methylimidazolium Triflate Clusters: Equilibrium Concentration in the Vapor Phase and Thermal Properties of Nanometric Droplets. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4938-4950.	2.6	57
30	Squeezing lubrication films: Layering transition for curved solid surfaces with long-range elasticity. <i>Journal of Chemical Physics</i> , 2000, 112, 9524-9542.	3.0	46
31	Zero Temperature Phases of the Electron Gas. <i>Physical Review Letters</i> , 1999, 82, 5317-5320.	7.8	253
32	Correlation energy, structure factor, radial distribution function, and momentum distribution of the spin-polarized uniform electron gas. <i>Physical Review B</i> , 1994, 50, 1391-1405.	3.2	273
33	Restricted primitive model for electrical double layers: Modified HNC theory of density profiles and Monte Carlo study of differential capacitance. <i>Journal of Chemical Physics</i> , 1986, 85, 2943-2950.	3.0	35
34	Structure and thermodynamic properties of molten alkali chlorides. <i>Journal of Chemical Physics</i> , 1984, 81, 3174-3180.	3.0	55
35	Capacitance of metal-molten-salt interfaces. <i>Surface Science</i> , 1983, 133, 89-100.	1.9	44