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 g-index
38 all docs	38 docs citations	38 times ranked	1421 citing authors

#	Article	IF	Citations
1	Correlation energy, structure factor, radial distribution function, and momentum distribution of the spin-polarized uniform electron gas. Physical Review B, 1994, 50, 1391-1405.	3.2	273
2	Zero Temperature Phases of the Electron Gas. Physical Review Letters, 1999, 82, 5317-5320.	7.8	253
3	Room Temperature Ionic Liquids Meet Biomolecules: A Microscopic View of Structure and Dynamics. ACS Sustainable Chemistry and Engineering, 2016, 4, 392-412.	6.7	148
4	Structure and Stability of Phospholipid Bilayers Hydrated by a Room-Temperature Ionic Liquid/Water Solution: A Neutron Reflectometry Study. Journal of Physical Chemistry B, 2014, 118, 12192-12206.	2.6	82
5	Computational Study of Room-Temperature Ionic Liquids Interacting with a POPC Phospholipid Bilayer. Journal of Physical Chemistry B, 2012, 116, 11205-11216.	2.6	75
6	Ion Association in [bmim][PF₆]/Naphthalene Mixtures: An Experimental and Computational Study. Journal of the American Chemical Society, 2008, 130, 7032-7041.	13.7	72
7	Room-Temperature Ionic Liquids and Biomembranes: Setting the Stage for Applications in Pharmacology, Biomedicine, and Bionanotechnology. Langmuir, 2018, 34, 9579-9597.	3.5	60
8	Structure and dynamics of POPC bilayers in water solutions of room temperature ionic liquids. Journal of Chemical Physics, 2015, 142, 124706.	3.0	59
9	Neutral and Charged 1-Butyl-3-methylimidazolium Triflate Clusters:Â Equilibrium Concentration in the Vapor Phase and Thermal Properties of Nanometric Dropletsâ€. Journal of Physical Chemistry B, 2007, 111, 4938-4950.	2.6	57
10	Structure and thermodynamic properties of molten alkali chlorides. Journal of Chemical Physics, 1984, 81, 3174-3180.	3.0	55
11	Squeezing lubrication films: Layering transition for curved solid surfaces with long-range elasticity. Journal of Chemical Physics, 2000, 112, 9524-9542.	3.0	46
12	Capacitance of metal-molten-salt interfaces. Surface Science, 1983, 133, 89-100.	1.9	44
13	Interaction of Room Temperature Ionic Liquid Solutions with a Cholesterol Bilayer. Journal of Physical Chemistry B, 2009, 113, 11642-11648.	2.6	39
14	Room temperature ionic liquids interacting with bio-molecules: an overview of experimental and computational studies. Philosophical Magazine, 2016, 96, 870-894.	1.6	38
15	Restricted primitive model for electrical double layers: Modified HNC theory of density profiles and Monte Carlo study of differential capacitance. Journal of Chemical Physics, 1986, 85, 2943-2950.	3.0	35
16	Local and semilocal density functional computations for crystals of 1-alkyl-3-methyl-imidazolium salts. Journal of Chemical Physics, 2007, 126, 144705.	3.0	20
17	The glass transition and the distribution of voids in room-temperature ionic liquids: A molecular dynamics study. Journal of Chemical Physics, 2012, 136, 204510.	3.0	19
18	The transition from salt-in-water to water-in-salt nanostructures in water solutions of organic ionic liquids relevant for biological applications. Physical Chemistry Chemical Physics, 2021, 23, 944-959.	2.8	19

#	Article	IF	Citations
19	Nano-indentation of a room-temperature ionic liquid film on silica: a computational experiment. Physical Chemistry Chemical Physics, 2012, 14, 2475.	2.8	17
20	Thermodynamic properties and atomistic structure of the dry amorphous silica surface from a reactive force field model. Physical Review B, 2010, 81, .	3.2	16
21	Ab initio simulations of thermal decomposition and of electron transfer reactions in room temperature ionic liquids. Faraday Discussions, 2012, 154, 373-389.	3.2	16
22	Thermoresponsive Ionic Liquid/Water Mixtures: From Nanostructuring to Phase Separation. Molecules, 2022, 27, 1647.	3.8	14
23	Computational Verification of Two Universal Relations for Simple Ionic Liquids. Kinetic Properties of a Model 2:1 Molten Salt. Journal of Physical Chemistry B, 2011, 115, 4927-4938.	2.6	13
24	Molecular Dynamics Simulations of Metal/Molten Alkali Carbonate Interfaces. Journal of Physical Chemistry C, 2017, 121, 17827-17847.	3.1	13
25	Creep rupture of fiber bundles: A molecular dynamics investigation. Physical Review E, 2015, 92, 022405.	2.1	9
26	Density Functional Computations and Molecular Dynamics Simulations of the Triethylammonium Triflate Protic Ionic Liquid. Journal of Physical Chemistry B, 2017, 121, 11410-11423.	2.6	8
27	First-principles wave-vector- and frequency-dependent exchange-correlation kernel for jellium at all densities. Physical Review B, 2022, 105, .	3.2	7
28	Computational analysis of the effect of [Tea][Ms] and [Tea][H₂PO₄] ionic liquids on the structure and stability of Aî²(17â€“42) amyloid fibrils. Physical Chemistry Chemical Physics, 2021, 23, 6695-6709.	2.8	6
29	Morphology of Nanometric Overlayers Made of Porphyrin-Type Molecules Physisorbed on Cellulose Iî² Crystals and Nanocrystals. Journal of Physical Chemistry B, 2021, 125, 11432-11443.	2.6	6
30	Absorption of Phosphonium Cations and Dications into a Hydrated POPC Phospholipid Bilayer: A Computational Study. Journal of Physical Chemistry B, 2022, 126, 4272-4288.	2.6	5
31	Surface of Half-Neutralized Diamine Triflate Ionic Liquids. A Molecular Dynamics Study of Structure, Thermodynamics, and Kinetics of Water Absorption and Evaporation. Journal of Physical Chemistry B, 2019, 123, 8457-8471.	2.6	3
32	Equilibrium Structure, Hydrogen Bonding, and Proton Conductivity in Half-Neutralized Diamine Ionic Liquids. Journal of Physical Chemistry B, 2019, 123, 5608-5625.	2.6	3
33	Coarse-Grained Model of Entropy-Driven Demixing. Journal of Physical Chemistry B, 2020, 124, 9267-9274.	2.6	3
34	Solubility Advantage of Amorphous Ketoprofen. Thermodynamic and Kinetic Aspects by Molecular Dynamics and Free Energy Approaches. Journal of Chemical Theory and Computation, 2020, 16, 4126-4140.	5.3	3
35	Structure and dynamics of biomembranes in room-temperature ionic liquid water solutions studied by neutron scattering and by molecular dynamics simulations. AIP Conference Proceedings, 2018, , .	0.4	0