Renzo Vallauri

List of Publications by Year
in descending order

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32	967	394421 19	434195 31
papers	citations	h-index	g-index

32	32	32	609
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Time correlation functions of simple liquids: A new insight on the underlying dynamical processes. Journal of Chemical Physics, 2018, 148, 174501.	3.0	2
2	Collective dynamics of supercooled water close to the liquidâ€“liquid coexistence lines. Physical Chemistry Chemical Physics, 2011, 13, 19823.	2.8	6
3	Dynamical properties of supercooled water close to the liquidâ€“liquid coexistence lines, and their relation to those at ambient conditions. Journal of Physics Condensed Matter, 2010, 22, 284105.	1.8	5
4	GM1 Ganglioside Embedded in a Hydrated DOPC Membrane: A Molecular Dynamics Simulation Study. Journal of Physical Chemistry B, 2009, 113, 4876-4886.	2.6	21
5	Structural and thermodynamic properties of different phases of supercooled liquid water. Journal of Chemical Physics, 2008, 128, 244503.	3.0	31
6	Structure of coexisting liquid phases of supercooled water: Analogy with ice polymorphs. Journal of Chemical Physics, 2007, 126, 241103.	3.0	10
7	Short-Range Structure of a GM3 Ganglioside Membrane:â€‰ Comparison between Experimental WAXS and Computer Simulation Results. Journal of Physical Chemistry B, 2007, 111, 10965-10969.	2.6	14
8	Molecular dynamics simulation of GM1 gangliosides embedded in a phospholipid membrane. Journal of Molecular Liquids, 2006, 129, 86-91.	4.9	11
9	Development of a new polarizable potential model of hydrogen fluoride and comparison with other effective models in liquid and supercritical states. Journal of Chemical Physics, 2006, 124, 184504.	3.0	9
10	Liquidâ€“vapor and liquidâ€“liquid phase equilibria of the Brodholtâ€“Sampoliâ€“Vallauri polarizable water model. Journal of Chemical Physics, 2005, 122, 081101.	3.0	62
11	Diffusion of water in confined geometry: The case of a multilamellar bilayer. Physical Review E, 2005, 72, 041201.	2.1	35
12	Molecular Dynamics Simulation of a GM3 Ganglioside Bilayer. Journal of Physical Chemistry B, 2004, 108, 20322-20330.	2.6	24
13	Temperature of maximum density line of a polarizable water model. Physical Review E, 2003, 67, 011201.	2.1	12
14	Thermodynamic and structural properties of liquid water around the temperature of maximum density in a wide range of pressures: A computer simulation study with a polarizable potential model. Journal of Chemical Physics, 2001, 115, 3750-3762.	3.0	19
15	Comparison of polarizable and nonpolarizable models of hydrogen fluoride in liquid and supercritical states: A Monte Carlo simulation study. Journal of Chemical Physics, 2001, 115, 9883-9894.	3.0	13
16	A molecular level explanation of the density maximum of liquid water from computer simulations with a polarizable potential model. Chemical Physics Letters, 2000, 318, 155-160.	2.6	32
17	Transport properties of liquid hydrogen fluoride. Journal of Chemical Physics, 2000, 112, 9025-9040.	3.0	11
18	Viscosity of liquid water from computer simulations with a polarizable potential model. Physical Review E, 2000, 62, 2971-2973.	2.1	49

#	Article	IF	Citations
19	The change of the structural and thermodynamic properties of water from ambient to supercritical conditions as seen by computer simulations. Journal of Physics Condensed Matter, 2000, 12, A115-A122.	1.8	17
20	Temperature dependence of thermodynamic properties of a polarizable potential model of water. Molecular Physics, 1999, 97, 1157-1163.	1.7	19
21	Hydrogen bonded clusters in the liquid phase: I. Analysis of the velocity correlation function of water triplets. Journal of Physics Condensed Matter, 1998, 10, 9231-9240.	1.8	34
22	Structural properties of liquid HF: a computer simulation investigation. Molecular Physics, 1998, 93, 15-24.	1.7	32
23	The use of a point polarizable dipole in intermolecular potentials for water. Molecular Physics, 1998, 94, 873-876.	1.7	21
24	Computer simulations of liquid HF by a newly developed polarizable potential model. Journal of Chemical Physics, 1997, 107, 10166-10176.	3.0	55
25	Computer simulation study of liquid HF with a new effective pair potential model. Molecular Physics, 1997, 92, 331-336.	1.7	38
26	Reverse Monte Carlo analysis of neutron diffraction results: Water around its critical point. Journal of Chemical Physics, 1996, 105, 2391-2398.	3.0	26
27	Parameterizing a polarizable intermolecular potential for water. Molecular Physics, 1995, 86, 149-158.	1.7	112
28	Parameterizing polarizable intermolecular potentials for water with the ice 1h phase. Molecular Physics, 1995, 85, 81-90.	1.7	34
29	Evolution from ordinary to fast sound in water at room temperature. Chemical Physics Letters, 1993, 209, 408-416.	2.6	23
30	Liquid alkali metals at the melting point: Structural and dynamical properties. Physical Review B, 1993, 47, 3011-3020.	3.2	82
31	Fast sound in liquid water. Physical Review E, 1993, 47, 1677-1684.	2.1	77
32	de Gennes slowing of density fluctuations in ordinary and supercooled liquids. Physical Review A, 1989, 40, 2796-2798.	2.5	31