# 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 | Parameterizing a polarizable intermolecular potential for water. Molecular Physics, 1995, 86, 149-158. | 1.7 | 112 |
| 2 | Liquid alkali metals at the melting point: Structural and dynamical properties. Physical Review B, 1993, 47, 3011-3020. | 3.2 | 82 |
| 3 | Fast sound in liquid water. Physical Review E, 1993, 47, 1677-1684. | 2.1 | 77 |
| 4 | 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 |
| 5 | Computer simulations of liquid HF by a newly developed polarizable potential model. Journal of Chemical Physics, 1997, 107, 10166-10176. | 3.0 | 55 |
| 6 | Viscosity of liquid water from computer simulations with a polarizable potential model. Physical Review E, 2000, 62, 2971-2973. | 2.1 | 49 |
| 7 | Computer simulation study of liquid HF with a new effective pair potential model. Molecular Physics, 1997, 92, 331-336. | 1.7 | 38 |
| 8 | Diffusion of water in confined geometry: The case of a multilamellar bilayer. Physical Review E, 2005, 72, 041201. | 2.1 | 35 |
| 9 | Parameterizing polarizable intermolecular potentials for water with the ice 1h phase. Molecular Physics, 1995, 85, 81-90. | 1.7 | 34 |
| 10 | 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 |
| 11 | 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 |
| 12 | Structural properties of liquid HF: a computer simulation investigation. Molecular Physics, 1998, 93, 15-24. | 1.7 | 32 |
| 13 | de Gennes slowing of density fluctuations in ordinary and supercooled liquids. Physical Review A, 1989, 40, 2796-2798. | 2.5 | 31 |
| 14 | Structural and thermodynamic properties of different phases of supercooled liquid water. Journal of Chemical Physics, 2008, 128, 244503. | 3.0 | 31 |
| 15 | Reverse Monte Carlo analysis of neutron diffraction results: Water around its critical point. Journal of Chemical Physics, 1996, 105, 2391-2398. | 3.0 | 26 |
| 16 | Molecular Dynamics Simulation of a GM3 Ganglioside Bilayer. Journal of Physical Chemistry B, 2004, 108, 20322-20330. | 2.6 | 24 |
| 17 | Evolution from ordinary to fast sound in water at room temperature. Chemical Physics Letters, 1993, 209, 408-416. | 2.6 | 23 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The use of a point polarizable dipole in intermolecular potentials for water. Molecular Physics, 1998, 94, 873-876. | 1.7 | 21 |
| 20 | Temperature dependence of thermodynamic properties of a polarizable potential model of water. Molecular Physics, 1999, 97, 1157-1163. | 1.7 | 19 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | Temperature of maximum density line of a polarizable water model. Physical Review E, 2003, 67, 011201. | 2.1 | 12 |
| 26 | Transport properties of liquid hydrogen fluoride. Journal of Chemical Physics, 2000, 112, 9025-9040. | 3.0 | 11 |
| 27 | Molecular dynamics simulation of GM1 gangliosides embedded in a phospholipid membrane. Journal of Molecular Liquids, 2006, 129, 86-91. | 4.9 | 11 |
| 28 | Structure of coexisting liquid phases of supercooled water: Analogy with ice polymorphs. Journal of Chemical Physics, 2007, 126, 241103. | 3.0 | 10 |
| 29 | 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 |
| 30 | Collective dynamics of supercooled water close to the liquidâ€“liquid coexistence lines. Physical Chemistry Chemical Physics, 2011, 13, 19823. | 2.8 | 6 |
| 31 | 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 |
| 32 | Time correlation functions of simple liquids: A new insight on the underlying dynamical processes. Journal of Chemical Physics, 2018, 148, 174501. | 3.0 | 2 |