Joaquim Trullas

List of Publications by Year
in descending order

34	611	516710 16	610901 24
papers	citations	h-index	g-index

34	34	34	262
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Potentials and correlation functions for the copper halide and silver iodide melts. I. Static correlations. Journal of Physics Condensed Matter, 1990, 2, 6631-6641.	1.8	59
2	Static structure and ionic transport in molten AgBr and AgCl. Journal of Chemical Physics, 1997, 106, 7286-7294.	3.0	59
3	Self- and cross-velocity correlation functions and diffusion coefficients in liquids: A molecular dynamics study of binary mixtures of soft spheres. Physical Review E, 1994, 50, 1162-1170.	2.1	40
4	Molecular Dynamics Study of Polarizable Ion Models for Molten AgBr. Journal of Physical Chemistry B, 2006, 110, 7490-7499.	2.6	40
5	Diffusion in multicomponent liquids: A new set of collective velocity correlation functions and diffusion coefficients. Journal of Chemical Physics, 1993, 99, 3983-3989.	3.0	38
6	Structure and Dynamics of Molten AgCl. The Inclusion of Induced Polarization. Journal of Physical Chemistry B, 2003, 107, 282-290.	2.6	36
7	Potentials and correlation functions for the copper halide and silver iodide melts. II. Time correlation functions and ionic transport properties. Journal of Physics Condensed Matter, 1990, 2, 6643-6650.	1.8	34
8	Effect of physical aging on the Johari-Goldstein and Î± relaxations of D-sorbitol: A study by thermally stimulated depolarization currents. Journal of Chemical Physics, 2007, 126, 144506.	3.0	28
9	Molecular Dynamics Study of Polarization Effects on AgI. Journal of Physical Chemistry B, 2008, 112, 1718-1728.	2.6	27
10	A polarizable ion model for the structure of molten AgI. Journal of Chemical Physics, 2007, 126, 021105.	3.0	25
11	Langevin dynamics simulation of ions in solution: Influence of the solvent structure. Journal of Chemical Physics, 1989, 91, 539-545.	3.0	23
12	Molecular dynamics study of polarizable point dipole models for molten sodium iodide. Journal of Chemical Physics, 2007, 127, 154508.	3.0	22
13	Mass and size dependence of single ion dynamics in molten monohalides. Journal of Chemical Physics, 2000, 113, 10635-10641.	3.0	19
14	Neutron diffraction data and molecular dynamics simulations of the molten mixture Ag(Br0.7I0.3). Journal of Chemical Physics, 2006, 125, 184510.	3.0	19
15	Molecular dynamics study of the velocity cross-correlations in liquids. Journal of Chemical Physics, 1998, 109, 228-234.	3.0	18
16	Langevin dynamics study of NaCl electrolyte solutions at different concentrations. Journal of Chemical Physics, 1990, 93, 5177-5181.	3.0	17
17	A polarizable ion model for the structure of molten CuI. Journal of Chemical Physics, 2011, 134, 044501.	3.0	13
18	The structure of molten AgCl, AgI and their eutectic mixture as studied by molecular dynamics simulations of polarizable ion model potentials. Journal of Chemical Physics, 2011, 134, 014505.	3.0	11

#	Article	IF	Citations
19	Static dielectric properties of polarizable ion models: Molecular dynamics study of molten AgI and NaI. Journal of Chemical Physics, 2009, 130, 234504.	3.0	10
20	Single ion dynamics in molten sodium bromide. Journal of Chemical Physics, 2014, 141, 244508.	3.0	10
21	Langevin dynamics simulations of electrolyte solutions. Influence of friction and random forces. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 2139-2143.	1.7	9
22	Molecular dynamics study of the incoherent and coherent contributions to the total dynamic structure factor of molten NaI. Journal of Molecular Liquids, 2007, 136, 227-235.	4.9	8
23	The structure of molten AgCl revisited. Journal of Non-Crystalline Solids, 2002, 312-314, 438-442.	3.1	6
24	The static dielectric function of the molten copper halides. Journal of Physics Condensed Matter, 1995, 7, 8877-8881.	1.8	5
25	Space-dependent self-diffusion processes in molten copper halides: A molecular dynamics study. Journal of Chemical Physics, 2001, 115, 7071-7075.	3.0	5
26	Polarization effects on the dielectric properties of molten AgI. Journal of Physics: Conference Series, 2008, 98, 042006.	0.4	5
27	The longitudinal optic-like mode in molten alkali halides: A molecular dynamics approximation to inelastic x-ray scattering experiments. Journal of Chemical Physics, 2010, 132, 054503.	3.0	5
28	The bridge functions of molten salts. Journal of Chemical Physics, 2001, 115, 4676-4680.	3.0	4
29	Long-wavelength limit of the static structure factors for mixtures of two simple molten salts with a common ion and generalized Bhatiaâ€“Thornton formalism: Molecular dynamics study of molten mixture Ag(Br0.7I0.3). Physica B: Condensed Matter, 2008, 403, 4249-4258.	2.7	4
30	Velocity cross-correlations in Lennard Jones and soft sphere fluids: A molecular dynamics simulation study. Journal of Molecular Liquids, 2000, 85, 23-32.	4.9	3
31	On the structure of the molten mixture Ag(I0.3Br0.7). Journal of Non-Crystalline Solids, 2007, 353, 2993-2996.	3.1	3
32	Br diffusion in molten NaBr explored by coherent quasielastic neutron scattering. Physical Review E, 2016, 93, 042604.	2.1	3
33	The structure of molten CuCl: Reverse Monte Carlo modeling with high-energy X-ray diffraction data and molecular dynamics of a polarizable ion model. Journal of Chemical Physics, 2016, 145, 094503.	3.0	3
34	Molecular dynamics of polarizable point dipole models for molten NaI. Comparison with first principles simulations. EPJ Web of Conferences, 2011, 15, 02009.	0.3	0