

Giorgio Pastore

List of Publications by Year in descending order

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115
papers

3,267
citations

159585

30
h-index

161849

54
g-index

116
all docs

116
docs citations

116
times ranked

1743
citing authors

#	ARTICLE	IF	CITATIONS
1	Theory of fab initiomolecular-dynamics calculations. <i>Physical Review A</i> , 1991, 44, 6334-6347.	2.5	283
2	Phase Diagram of Janus Particles. <i>Physical Review Letters</i> , 2009, 103, 237801.	7.8	254
3	Soft-sphere model for the glass transition in binary alloys: Pair structure and self-diffusion. <i>Physical Review A</i> , 1987, 36, 4891-4903.	2.5	212
4	Understanding fragility in supercooled Lennard-Jones mixtures. I. Locally preferred structures. <i>Journal of Chemical Physics</i> , 2007, 127, 124504.	3.0	156
5	Additive and non-additive hard sphere mixtures. <i>Molecular Physics</i> , 1986, 59, 275-290.	1.7	154
6	A numerical study of one-patch colloidal particles: from square-well to Janus. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11869.	2.8	123
7	On the equilibrium structure of dense fluids. <i>Molecular Physics</i> , 1988, 63, 747-767.	1.7	120
8	Effects of patch size and number within a simple model of patchy colloids. <i>Journal of Chemical Physics</i> , 2010, 132, 174110.	3.0	107
9	Transferability of bulk empirical potentials to silicon microclusters: A critical study. <i>Physical Review B</i> , 1990, 41, 10243-10246.	3.2	89
10	Soft-sphere model for the glass transition in binary alloys. II. Relaxation of the incoherent density-density correlation functions. <i>Physical Review A</i> , 1988, 38, 454-462.	2.5	75
11	Factorization of the Triplet Direct Correlation Function in Dense Fluids. <i>Physical Review Letters</i> , 1987, 58, 2075-2078.	7.8	70
12	Density-functional theory of freezing for quantum systems: The Wigner crystallization. <i>Physical Review Letters</i> , 1990, 64, 303-306.	7.8	56
13	Structure and thermodynamic properties of molten alkali chlorides. <i>Journal of Chemical Physics</i> , 1984, 81, 3174-3180.	3.0	55
14	Density functional theory of soft sphere freezing. <i>Journal of Chemical Physics</i> , 1987, 86, 6360-6365.	3.0	54
15	Equation of state for symmetric non-additive hard-sphere fluids: An approximate analytic expression and new Monte Carlo results. <i>Chemical Physics Letters</i> , 1989, 159, 388-392.	2.6	53
16	Structure, electronic properties, and defects of amorphous gallium arsenide. <i>Physical Review B</i> , 1992, 45, 13378-13382.	3.2	47
17	Chemical short-range order in amorphous Ni-Ti alloys: an integral equation approach with a non-additive hard-sphere model. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 3469-3487.	1.8	46
18	Patchy sticky hard spheres: Analytical study and Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2007, 127, 234507.	3.0	46

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19	Uniqueness and the choice of the acceptable solutions of the MSA. <i>Molecular Physics</i> , 1988, 63, 731-741.	1.7	43
20	Phase diagram and structural properties of a simple model for one-patch particles. <i>Journal of Chemical Physics</i> , 2009, 131, 174114.	3.0	42
21	Cluster theory of Janus particles. <i>Soft Matter</i> , 2011, 7, 2419.	2.7	41
22	First-principles molecular-dynamics simulation of liquid CsPb. <i>Journal of Chemical Physics</i> , 1995, 103, 5031-5040.	3.0	38
23	Dynamics and energy landscape in a tetrahedral network glass-former: direct comparison with models of fragile liquids. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 285107.	1.8	38
24	Electron-Ion Correlation in Liquid Metals from First Principles: Liquid Mg and Liquid Bi. <i>Physical Review Letters</i> , 1995, 75, 4480-4483.	7.8	36
25	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
26	Atomic size effects on local coordination and medium-range order in molten trivalent metal chlorides. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 8933-8944.	1.8	32
27	Dependence of Capacitance of Metal-Molten Salt Interface on Local Density Profiles Near Electrode. <i>Physics and Chemistry of Liquids</i> , 1984, 13, 269-277.	1.2	31
28	The role of excluded volume effects on the structure and chemical short-range order of Ni ₃₃ Y ₆₇ metallic glass. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 8463-8476.	1.8	31
29	Fluid-fluid phase separation in binary mixtures of asymmetric non-additive hard spheres. <i>Journal of Physics Condensed Matter</i> , 1994, 6, A163-A166.	1.8	31
30	Entropy and Fluid-Fluid Separation in Nonadditive Hard-Sphere Mixtures. <i>Journal of Physical Chemistry B</i> , 1998, 102, 10368-10371.	2.6	30
31	Poly-Anions in Liquid CsPb: An <i>ab initio</i> Molecular-Dynamics Simulation. <i>Europhysics Letters</i> , 1994, 27, 667-672.	2.0	27
32	Are there localized saddles behind the heterogeneous dynamics of supercooled liquids?. <i>Europhysics Letters</i> , 2006, 75, 784-790.	2.0	27
33	Understanding fragility in supercooled Lennard-Jones mixtures. II. Potential energy surface. <i>Journal of Chemical Physics</i> , 2007, 127, 124505.	3.0	27
34	Density functional calculations for Zintl systems: structure, electronic structure and electrical conductivity of liquid NaSn alloys. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 1175-1198.	1.8	25
35	Ab initio molecular dynamics simulation of liquid NaSn alloy. <i>Journal of Physics Condensed Matter</i> , 1992, 4, L179-L183.	1.8	23
36	Structure factor of liquid alkali metals using a classical-plasma reference system. <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1984, 124, 383-391.	0.9	21

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37	Thermodynamically self-consistent integral equations and the structure of liquid metals. <i>Journal of Physics F: Metal Physics</i> , 1987, 17, L267-L271.	1.6	21
38	Liquid Structure and Melting of Trivalent Metal Chlorides. <i>Physica Scripta</i> , 1991, T39, 367-371.	2.5	21
39	First-principles molecular-dynamics simulation of liquid $\text{Li}_{12}\text{Si}_7$. <i>Physical Review B</i> , 1993, 48, 13459-13468.	3.2	21
40	On a consistent mean spherical model for plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1980, 78, 75-78.	2.1	20
41	A MHNC Analysis of the Temperature Variation of the Structure of Liquid Potassium. <i>Europhysics Letters</i> , 1988, 7, 37-42.	2.0	20
42	Structure of ionic fluids in equilibrium with a microporous ionic matrix. <i>Philosophical Magazine Letters</i> , 1993, 68, 357-361.	1.2	19
43	A fully polarizable and dissociable potential for water. <i>Chemical Physics Letters</i> , 2003, 381, 287-291.	2.6	19
44	From square-well to Janus: Improved algorithm for integral equation theory and comparison with thermodynamic perturbation theory within the Kern-Frenkel model. <i>Journal of Chemical Physics</i> , 2014, 140, 094104.	3.0	19
45	Structure and thermodynamic properties of molten strontium chloride. <i>Journal of Physics C: Solid State Physics</i> , 1986, 19, 487-494.	1.5	17
46	Percus-Yevick pair-distribution functions of a binary hard-sphere system covering the whole r-range. <i>Journal of Physics A</i> , 1991, 24, 2995-3012.	1.6	17
47	Microstructural analysis of simulated $\text{Ni}_{33}\text{Y}_{67}$ glass. <i>Physical Review B</i> , 1994, 49, 12625-12632.	3.2	17
48	Computer simulation study of the closure relations in hard sphere fluids. <i>Journal of Chemical Physics</i> , 2004, 120, 10681-10690.	3.0	17
49	Liquid-vapor coexistence in square-well fluids: an RHNC study. <i>Molecular Physics</i> , 2009, 107, 555-562.	1.7	17
50	Structure of molten yttrium chloride in an ionic model. <i>Journal of Physics Condensed Matter</i> , 1991, 3, 8297-8304.	1.8	16
51	An investigation of the liquid to glass transition using integral equations for the pair structure of coupled replicaes. <i>Journal of Chemical Physics</i> , 2014, 141, 174505.	3.0	16
52	Pair structure and interionic forces in molten zinc chloride. <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1986, 142, 294-300.	0.9	15
53	Ionic pairing in binary liquids of charged hard spheres with nonadditive diameters. <i>Journal of Chemical Physics</i> , 1986, 84, 1827-1832.	3.0	14
54	Monte Carlo simulation of the nonadditive restricted primitive model of ionic fluids: Phase diagram and clustering. <i>Physical Review E</i> , 2013, 87, 052303.	2.1	14

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55	Wertheim perturbation theory: thermodynamics and structure of patchy colloids. <i>Molecular Physics</i> , 2015, 113, 2593-2607.	1.7	14
56	Ab initio simulations of liquid systems: concentration dependence of the electric conductivity of NaSn alloys. <i>Journal of Physics Condensed Matter</i> , 1996, 8, L653-L657.	1.8	11
57	Generating functionals, consistency, and uniqueness in the integral equation theory of liquids. <i>Journal of Chemical Physics</i> , 2003, 119, 3810-3819.	3.0	11
58	Fluid-phase diagrams of binary mixtures from constant pressure integral equations. <i>Journal of Chemical Physics</i> , 2005, 122, 181104.	3.0	11
59	Effective Forces in Square Well and Square Shoulder Fluids. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12085-12095.	2.6	11
60	Static and dynamic structure of monomers, dimers and trimers of HgCl ₂ from density-functional calculations. <i>European Physical Journal D</i> , 2012, 66, 1.	1.3	11
61	Thermodynamics and structure of liquid metals: a critical assessment of the charged-hard-sphere reference system. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 6173-6188.	1.8	10
62	First-principles molecular dynamics simulation of liquid. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 1879-1896.	1.8	10
63	An Ionic Model for Molecular Units in Molten Aluminium Trichloride and Alkali Chloroaluminates. <i>Physics and Chemistry of Liquids</i> , 1996, 32, 191-209.	1.2	10
64	Ionic Clusters in Aluminium-Sodium Fluoride Melts. <i>Modern Physics Letters B</i> , 1998, 12, 995-1002.	1.9	10
65	Optimized random-phase approximations for arbitrary reference systems: Extremum conditions and thermodynamic consistence. <i>Physical Review E</i> , 1998, 57, 460-464.	2.1	10
66	Numerical study of a binary Yukawa model in regimes characteristic of globular proteins in solutions. <i>Physical Review E</i> , 2005, 71, 031108.	2.1	10
67	Covalent-to-ionic transition in liquid zinc dichloride. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 1083-1088.	2.1	10
68	The origins of tetrahedral coordination in molten and glassy ZnCl ₂ and other group-2B metal dihalides. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 431-433.	2.1	10
69	Liquid structure and freezing of the two-dimensional classical electron fluid. <i>Journal of Physics C: Solid State Physics</i> , 1985, 18, 4011-4019.	1.5	9
70	Non-additive Lennard-Jones model for the structure of Ni ₃₃ Y ₆₇ metallic glass: integral equation and molecular dynamics calculations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993, 165, 183-187.	5.6	9
71	Short-range correlations in multicomponent plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1981, 84, 369-370.	2.1	8
72	Charged hard spheres in a uniform neutralizing background: the role of thermodynamic self consistence. <i>Molecular Physics</i> , 1991, 74, 1089-1096.	1.7	8

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73	How reliable is the HMSA integral equation for the pair structure of supercooled and amorphous mixtures?. <i>Molecular Physics</i> , 1994, 81, 1011-1016.	1.7	8
74	Ionic Interactions in Alkali -Aluminium Tetrafluoride Clusters. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1999, 54, 570-574.	1.5	8
75	Structure and diffusion in aluminium and gallium trihalide melts from simulations based on intramolecular force laws. <i>Molecular Physics</i> , 2007, 105, 2383-2392.	1.7	8
76	The restricted primitive model of ionic fluids with nonadditive diameters. <i>Europhysics Letters</i> , 2013, 101, 46003.	2.0	8
77	Coexistence of low and high overlap phases in a supercooled liquid: An integral equation investigation. <i>Journal of Chemical Physics</i> , 2017, 146, 114504.	3.0	8
78	Structure and thermodynamic properties of molten rubidium chloride. <i>Journal of Physics C: Solid State Physics</i> , 1984, 17, L333-L336.	1.5	7
79	Phase equilibrium in liquid binary mixtures of non-additive hard spheres. <i>Physica Scripta</i> , 1992, T45, 251-252.	2.5	7
80	Hypernetted-chain investigation of the random first-order transition of a Lennard-Jones liquid to an ideal glass. <i>Physical Review E</i> , 2015, 92, 042316.	2.1	7
81	Structure of trimers of group-2B metal dihalides from relativistic density-functional calculations. <i>Physics and Chemistry of Liquids</i> , 2015, 53, 1-9.	1.2	7
82	Theory of the interface between a classical plasma and a hard wall. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1984, 128, 631-642.	2.6	6
83	Pseudoclassical approach to electron and ion density correlations in simple liquid metals. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1986, 8, 59-75.	0.4	6
84	Structure of inverse-power fluids in analytical form. <i>Molecular Physics</i> , 1987, 61, 849-858.	1.7	6
85	An Ionic Model for FECL ₃ -Based Melts from a Study of the Molecular Dimer and Other Molecular Structures. <i>Physics and Chemistry of Liquids</i> , 1997, 35, 93-104.	1.2	6
86	A Theoretical Study of the Stabilization of the (AlF ₅) ²⁻ Complex Anion by Alkali Counterions. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1999, 54, 575-578.	1.5	6
87	Direct correlation functions of the Widom-Rowlinson model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 332, 349-359.	2.6	6
88	Wertheim and Bjerrum-Tani-Henderson theories for associating fluids: A critical assessment. <i>Journal of Chemical Physics</i> , 2014, 141, 074108.	3.0	6
89	Probing the pair structure of supercooled fluids by integral equations: Evidence for an equilibrium liquid-ideal glass transition?. <i>Europhysics Letters</i> , 2014, 105, 36003.	2.0	6
90	Comment on "An investigation of the liquid to glass transition using integral equations for the pair structure of coupled replicas". <i>J. Chem. Phys.</i> 141, 174505 (2014)]. <i>Journal of Chemical Physics</i> , 2015, 142, 107105.	3.0	6

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91	Numerical solution of the optimized random phase approximation. <i>Molecular Physics</i> , 1995, 84, 653-661.	1.7	5
92	Local Coordination and Medium Range Order in Molten Trivalent Metal Chlorides: The Role of Screening by the Chlorine Component. <i>Physics and Chemistry of Liquids</i> , 1996, 31, 189-200.	1.2	5
93	Optimal Monte Carlo sampling for simulation of classical fluids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 313, 312-320.	2.6	5
94	Revisiting the replica theory of the liquid to ideal glass transition. <i>Journal of Chemical Physics</i> , 2019, 150, 154504.	3.0	5
95	Electric resistivity and structure of liquid alkali metals and alloys as electron-ion plasmas. <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1981, 111, 283-290.	0.9	4
96	Evidence for Many-Body Interactions in the Structure of Molten Alkali Chlorides. <i>Physics and Chemistry of Liquids</i> , 1985, 15, 31-40.	1.2	4
97	Pair distribution functions of a binary Yukawa mixture and their asymptotic behavior. <i>Physical Review E</i> , 2001, 63, 061110.	2.1	4
98	Structural connectivity and ionic transport in molten ZnCl ₂ : Optimization of chlorine interaction parameters. <i>Physica B: Condensed Matter</i> , 2010, 405, 974-980.	2.7	4
99	Structure of Partly Quenched Molten Copper Chloride. <i>Physics and Chemistry of Liquids</i> , 1996, 31, 89-96.	1.2	3
100	From molecular clusters to liquid structure in AlCl ₃ and FeCl ₃ . <i>Physics and Chemistry of Liquids</i> , 2007, 45, 487-501.	1.2	3
101	Structural transitions in interionic force models of liquid AlCl ₃ . <i>Physics and Chemistry of Liquids</i> , 2008, 46, 548-563.	1.2	3
102	An interionic force law for HgCl ₂ from first-principles molecular calculations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 813-816.	2.1	3
103	An alternative scheme to find glass state solutions using integral equation theory for the pair structure. <i>Molecular Physics</i> , 2015, 113, 2770-2775.	1.7	3
104	Thermodynamics and Structure of Liquid Metals from a New Consistent Optimized Random Phase Approximation. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2001, 56, 605-612.	1.5	2
105	Stability of the iterative solutions of integral equations as one phase freezing criterion. <i>Physical Review E</i> , 2003, 68, 046104.	2.1	2
106	Molecular clusters in gaseous and liquid AlCl ₃ . <i>Physics and Chemistry of Liquids</i> , 2008, 46, 1-8.	1.2	2
107	A flexible atomic and polarizable potential for water Application to small clusters. <i>Molecular Physics</i> , 2008, 106, 9-21.	1.7	2
108	Asymptotic density profile of a classical fluid against a hard wall. <i>Journal of Statistical Physics</i> , 1985, 38, 861-865.	1.2	1

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109	Ab initio molecular dynamics study of liquid Li ₂ Si ₇ . Journal of Non-Crystalline Solids, 1993, 156-158, 961-964.	3.1	1
110	One-Shot Service Searches Preprint Repositories at a Mouseclick. Computers in Physics, 1996, 10, 520.	0.5	1
111	Insulatorâ€“conductor transition in liquid aluminium trichloride. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5215-5219.	2.1	1
112	Highly Asymmetric Electrolyte Suspensions in the Primitive Model. , 1993, , 615-626.		1
113	Theory of freezing for quantum systems. Journal of Non-Crystalline Solids, 1990, 117-118, 871-874.	3.1	0
114	Probing structural holes in disordered ionic systems. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1998, 20, 1337-1344.	0.4	0
115	Reflections on the Glass Transition. , 2017, , .		0