

Riccardo Fantoni

List of Publications by Year in descending order

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74
papers

779
citations

516681

16
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642715

23
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75
all docs

75
docs citations

75
times ranked

411
citing authors

#	ARTICLE	IF	CITATIONS
19	Phase diagrams of Janus fluids with up-down constrained orientations. <i>Journal of Chemical Physics</i> , 2013, 139, 174902.	3.0	15
20	Thermodynamic consistency of energy and virial routes: An exact proof within the linearized Debye-Hückel theory. <i>Journal of Chemical Physics</i> , 2009, 131, 181105.	3.0	14
21	The penetrable square-well model: extensive versus non-extensive phases. <i>Molecular Physics</i> , 2011, 109, 2723-2736.	1.7	14
22	Localization of acoustic polarons at low temperatures: A path-integral Monte Carlo approach. <i>Physical Review B</i> , 2012, 86, .	3.2	14
23	A cluster theory for a Janus fluid. <i>European Physical Journal B</i> , 2012, 85, 1.	1.5	14
24	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
25	Wertheim perturbation theory: thermodynamics and structure of patchy colloids. <i>Molecular Physics</i> , 2015, 113, 2593-2607.	1.7	14
26	Fluids of spherical molecules with dipolarlike nonuniform adhesion: An analytically solvable anisotropic model. <i>Physical Review E</i> , 2008, 78, 021201.	2.1	12
27	Nonadditive hard-sphere fluid mixtures: A simple analytical theory. <i>Physical Review E</i> , 2011, 84, 041201.	2.1	12
28	Depletion force in the infinite-dilution limit in a solvent of nonadditive hard spheres. <i>Journal of Chemical Physics</i> , 2014, 140, 244513.	3.0	12
29	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
30	Phase behaviour of polydisperse sticky hard spheres: analytical solutions and perturbation theory. <i>Molecular Physics</i> , 2006, 104, 3451-3459.	1.7	11
31	One-Dimensional Fluids with Second Nearest-Neighbor Interactions. <i>Journal of Statistical Physics</i> , 2017, 169, 1171-1201.	1.2	10
32	Eliminating nonrenormalizability helps prove scaled affine quantization of \mathbb{R}^4 is nontrivial. <i>International Journal of Modern Physics A</i> , 2022, 37, .	1.5	10
33	Non-existence of a phase transition for penetrable square wells in one dimension. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P07030.	2.3	9
34	Multicomponent fluid of nonadditive hard spheres near a wall. <i>Physical Review E</i> , 2013, 87, 042102.	2.1	9
35	Monte Carlo Evaluation of the Continuum Limit of the Two-Point Function of the Euclidean Free Real Scalar Field Subject to Affine Quantization. <i>Journal of Statistical Physics</i> , 2021, 184, 1.	1.2	9
36	Kinetic factors in affine quantization and their role in field theory Monte Carlo. <i>International Journal of Modern Physics A</i> , 2022, 37, .	1.5	9

#	ARTICLE	IF	CITATIONS
37	The restricted primitive model of ionic fluids with nonadditive diameters. <i>Europhysics Letters</i> , 2013, 101, 46003.	2.0	8
38	Quantum Gibbs ensemble Monte Carlo. <i>Journal of Chemical Physics</i> , 2014, 141, 114110.	3.0	8
39	Fourth Moment Sum Rule for the Charge Correlations of a Two-Component Classical Plasma. <i>Journal of Statistical Physics</i> , 2016, 163, 887-913.	1.2	8
40	Local orientational ordering in fluids of spherical molecules with dipolarlike anisotropic adhesion. <i>Physical Review E</i> , 2009, 80, 061207.	2.1	7
41	Two component plasma in a Flammâ€™s paraboloid. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012, 2012, P04015.	2.3	7
42	Exact Results for One Dimensional Fluids Through Functional Integration. <i>Journal of Statistical Physics</i> , 2016, 163, 1247-1267.	1.2	7
43	Direct correlation functions of the Widomâ€™Rowlinson model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 332, 349-359.	2.6	6
44	The density of a fluid on a curved surface. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012, 2012, P10024.	2.3	6
45	Wertheim and Bjerrum-Tani-Henderson theories for associating fluids: A critical assessment. <i>Journal of Chemical Physics</i> , 2014, 141, 074108.	3.0	6
46	Radial distribution function in a diffusion Monte Carlo simulation of a Fermion fluid between the ideal gas and the Jellium model. <i>European Physical Journal B</i> , 2013, 86, 1.	1.5	5
47	White-dwarf equation of state and structure: the effect of temperature. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017, 2017, 113101.	2.3	5
48	Jellium at finite temperature using the restricted worm algorithm. <i>European Physical Journal B</i> , 2021, 94, 1.	1.5	5
49	Monteâ€™Carlo evaluation of the continuum limit of the two-point function of two Euclidean Higgs real scalar fields subject to affine quantization. <i>Physical Review D</i> , 2021, 104, .	4.7	5
50	The Janus Fluid. <i>SpringerBriefs in Physics</i> , 2013, , .	0.7	5
51	Some properties of short-range correlations for electrons in quantum wires. <i>Physica B: Condensed Matter</i> , 1996, 217, 35-40.	2.7	4
52	Gas-liquid coexistence for the boson square-well fluid and the He4 binodal anomaly. <i>Physical Review E</i> , 2014, 90, 020102.	2.1	4
53	Two-phase coexistence for hydrogen-helium mixtures. <i>Physical Review E</i> , 2015, 92, 012133.	2.1	4
54	One-Dimensional Fluids with Positive Potentials. <i>Journal of Statistical Physics</i> , 2017, 166, 1334-1342.	1.2	4

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55	The moment sum-rules for ionic liquids at criticality. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 477, 187-194.	2.6	4
56	Two component boson-fermion plasma at finite temperature. <i>International Journal of Modern Physics C</i> , 2018, 29, 1850028.	1.7	4
57	Supercooled superfluids in Monte Carlo simulations. <i>European Physical Journal B</i> , 2016, 89, 1.	1.5	3
58	One-component fermion plasma on a sphere at finite temperature. <i>International Journal of Modern Physics C</i> , 2018, 29, 1850064.	1.7	3
59	Plasma living in a curved surface at some special temperature. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 524, 177-220.	2.6	3
60	Stability of the iterative solutions of integral equations as one phase freezing criterion. <i>Physical Review E</i> , 2003, 68, 046104.	2.1	2
61	Hellmann and Feynman theorem versus diffusion Monte Carlo experiment. <i>Solid State Communications</i> , 2013, 159, 106-109.	1.9	2
62	The Square-Shoulder-Asakura-Oosawa model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 457, 406-412.	2.6	2
63	Effect of quantum dispersion on the radial distribution function of a one-component sticky-hard-sphere fluid. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 043103.	2.3	2
64	From the Liouville to the Smoluchowski equation for a colloidal solute particle in a solvent. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 515, 682-692.	2.6	2
65	Form invariance of the moment sum-rules for jellium with the addition of short-range terms in the pair-potential. <i>Indian Journal of Physics</i> , 2021, 95, 1027-1032.	1.8	2
66	Finite-size effects and thermodynamic limit in one-dimensional Janus fluids. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021, 2021, 103210.	2.3	2
67	Jellium at finite temperature. <i>Molecular Physics</i> , 2022, 120, .	1.7	2
68	How Should We Choose the Boundary Conditions in a Simulation Which Could Detect Anyons in One and Two Dimensions?. <i>Journal of Low Temperature Physics</i> , 2021, 202, 247-262.	1.4	2
69	Coordinate space form of interacting reference response function of d-dimensional jellium. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1995, 17, 1165-1179.	0.4	1
70	Publisher's Note: Thermodynamic instabilities of a binary mixture of sticky hard spheres [Phys. Rev. E72, 011503 (2005)]. <i>Physical Review E</i> , 2005, 72, .	2.1	1
71	Low temperature acoustic polaron localization. <i>Physica B: Condensed Matter</i> , 2013, 412, 112-118.	2.7	1
72	Andersen-Weeks-Chandler Perturbation Theory and One-Component Sticky-Hard-Spheres. <i>Journal of Statistical Physics</i> , 2017, 168, 652-665.	1.2	1

#	ARTICLE	IF	CITATIONS
73	Decay of correlations and related sum rules in a layered classical plasma. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1995, 17, 155-167.	0.4	0
74	Field-theoretical approach to a dense polymer with an ideal binary mixture of clustering centers. Physical Review E, 2011, 84, 011808.	2.1	0