Jean-Marc Bomont

List of Publications by Year
in descending order

23 papers	291 citations	1039406 9 h-index	887659 17 g-index
24 all docs	24 docs citations	24 times ranked	140 citing authors

#	Article	IF	Citations
1	Analytical treatment of the structure for systems interacting via core-softened potentials. Chemical Physics, 2022, 555, 111445.	0.9	4
2	Clustering in Mixtures of SALR Particles and Hard Spheres with Cross Attraction. Journal of Physical Chemistry B, 2022, 126, 2027-2039.	1.2	6
3	Glass quantization of the Gaussian core model. Physical Review E, 2022, 105, 024607.	0.8	2
4	Structure of self-assembly amphiphilic systems: Relation between phenomenological parameters and microscopic potential parameters. Chemical Physics, 2020, 539, 110905.	0.9	3
5	Local order and cluster formation in model fluids with competing interactions: a simulation and theoretical study. Physical Chemistry Chemical Physics, 2020, 22, 5355-5365.	1.3	9
6	Large effects of tiny structural changes on the cluster formation process in model colloidal fluids: an integral equation study. AIMS Materials Science, 2020, 7, 170-181.	0.7	4
7	Revisiting the replica theory of the liquid to ideal glass transition. Journal of Chemical Physics, 2019, 150, 154504.	1.2	5
8	A semianalytical â€œreverseâ€•approach to link structure and microscopic interactions in two-Yukawa competing fluids. Journal of Chemical Physics, 2018, 149, 234907.	1.2	7
9	Coexistence of low and high overlap phases in a supercooled liquid: An integral equation investigation. Journal of Chemical Physics, 2017, 146, 114504.	1.2	8
10	Tiny changes in local order identify the cluster formation threshold in model fluids with competing interactions. Physical Chemistry Chemical Physics, 2017, 19, 15247-15255.	1.3	16
11	Reflections on the Glass Transition. , 2017, , .		0
12	Hypernetted-chain investigation of the random first-order transition of a Lennard-Jones liquid to an ideal glass. Physical Review E, 2015, 92, 042316.	0.8	7
13	Comment on â€œAn investigation of the liquid to glass transition using integral equations for the pair structure of coupled replicaeâ€•[J. Chem. Phys. 141, 174505 (2014)]. Journal of Chemical Physics, 2015, 142, 107105.	1.2	6
14	An alternative scheme to find glass state solutions using integral equation theory for the pair structure. Molecular Physics, 2015, 113, 2770-2775.	0.8	3
15	An investigation of the liquid to glass transition using integral equations for the pair structure of coupled replicae. Journal of Chemical Physics, 2014, 141, 174505.	1.2	16
16	Probing the pair structure of supercooled fluids by integral equations: Evidence for an equilibrium liquid-ideal glass transition?. Europhysics Letters, 2014, 105, 36003.	0.7	6
17	Thermodynamics and dynamics of the hard-sphere system: From stable to metastable states. Chemical Physics, 2014, 439, 85-94.	0.9	5
18	A theoretical study of structure and thermodynamics of fluids with long-range competing interactions exhibiting pattern formation. Journal of Chemical Physics, 2012, 137, 164901.	1.2	22

#	Article	IF	Citations
19	Communication: Thermodynamic signatures of cluster formation in fluids with competing interactions. Journal of Chemical Physics, 2012, 137, 011101.	1.2	43
20	Temperature study of cluster formation in two-Yukawa fluids. Journal of Chemical Physics, 2010, 132, 184508.	1.2	40
21	Crystallization limits of the two-term Yukawa potentials based on the entropy criterion. Journal of Chemical Physics, 2010, 132, 074505.	1.2	19
22	Approximative â€œone particleâ€•bridge function B(1)(r) for the theory of simple fluids. Journal of Chemical Physics, 2007, 126, 214504.	1.2	9
23	A consistent integral equation theory for hard spheres. Journal of Chemical Physics, 2004, 121, 1548-1552.	1.2	22