

Francesco Sciortino

List of Publications by Year in descending order

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438
papers

29,249
citations

3515

90
h-index

6979

154
g-index

441
all docs

441
docs citations

441
times ranked

9889
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase behaviour of metastable water. <i>Nature</i> , 1992, 360, 324-328.	13.7	1,652
2	Long-range correlations in nucleotide sequences. <i>Nature</i> , 1992, 356, 168-170.	13.7	1,297
3	Gelation of particles with short-range attraction. <i>Nature</i> , 2008, 453, 499-503.	13.7	811
4	Relation between the Widom line and the dynamic crossover in systems with a liquid-liquid phase transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16558-16562.	3.3	693
5	Singularity-free interpretation of the thermodynamics of supercooled water. <i>Physical Review E</i> , 1996, 53, 6144-6154.	0.8	499
6	Phase Diagram of Patchy Colloids: Towards Empty Liquids. <i>Physical Review Letters</i> , 2006, 97, 168301.	2.9	482
7	Equilibrium Cluster Phases and Low-Density Arrested Disordered States: The Role of Short-Range Attraction and Long-Range Repulsion. <i>Physical Review Letters</i> , 2004, 93, 055701.	2.9	434
8	Effect of Hydrogen Bonds on the Thermodynamic Behavior of Liquid Water. <i>Physical Review Letters</i> , 1994, 73, 1632-1635.	2.9	409
9	Inherent Structure Entropy of Supercooled Liquids. <i>Physical Review Letters</i> , 1999, 83, 3214-3217.	2.9	408
10	Higher-order glass-transition singularities in colloidal systems with attractive interactions. <i>Physical Review E</i> , 2000, 63, 011401.	0.8	367
11	Fragile-to-strong transition and polyamorphism in the energy landscape of liquid silica. <i>Nature</i> , 2001, 412, 514-517.	13.7	356
12	Effect of defects on molecular mobility in liquid water. <i>Nature</i> , 1991, 354, 218-221.	13.7	339
13	Configurational entropy and diffusivity of supercooled water. <i>Nature</i> , 2000, 406, 166-169.	13.7	323
14	Supercooled water and the kinetic glass transition. <i>Physical Review E</i> , 1996, 54, 6331-6343.	0.8	317
15	Observation of empty liquids and equilibrium gels in a colloidal clay. <i>Nature Materials</i> , 2011, 10, 56-60.	13.3	307
16	Slow Dynamics of Water Molecules in Supercooled States. <i>Physical Review Letters</i> , 1996, 76, 2730-2733.	2.9	281
17	Liquid-Liquid Phase Transition: Evidence from Simulations. <i>Physical Review Letters</i> , 1997, 78, 2409-2412.	2.9	270
18	Network defects and molecular mobility in liquid water. <i>Journal of Chemical Physics</i> , 1992, 96, 3857-3865.	1.2	255

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19	Phase Diagram of Janus Particles. <i>Physical Review Letters</i> , 2009, 103, 237801.	2.9	254
20	Glassy colloidal systems. <i>Advances in Physics</i> , 2005, 54, 471-524.	35.9	230
21	Ideal glass-glass transitions and logarithmic decay of correlations in a simple system. <i>Physical Review E</i> , 1999, 59, R1347-R1350.	0.8	225
22	Interplay between Time-Temperature Transformation and the Liquid-Liquid Phase Transition in Water. <i>Physical Review Letters</i> , 2002, 88, 195701.	2.9	225
23	Computer simulations of liquid silica: Equation of state and liquid-liquid phase transition. <i>Physical Review E</i> , 2000, 63, 011202.	0.8	219
24	Dynamics of simulated water under pressure. <i>Physical Review E</i> , 1999, 60, 6757-6768.	0.8	213
25	Saddles in the Energy Landscape Probed by Supercooled Liquids. <i>Physical Review Letters</i> , 2000, 85, 5356-5359.	2.9	211
26	Line of compressibility maxima in the phase diagram of supercooled water. <i>Physical Review E</i> , 1997, 55, 727-737.	0.8	203
27	Spinodal of liquid water. <i>Physical Review E</i> , 1993, 48, 3799-3817.	0.8	199
28	Self-assembly of patchy particles into polymer chains: A parameter-free comparison between Wertheim theory and Monte Carlo simulation. <i>Journal of Chemical Physics</i> , 2007, 126, 194903.	1.2	199
29	One liquid, two glasses. <i>Nature Materials</i> , 2002, 1, 145-146.	13.3	196
30	Ground-State Clusters for Short-Range Attractive and Long-Range Repulsive Potentials. <i>Langmuir</i> , 2004, 20, 10756-10763.	1.6	187
31	Phase diagram for amorphous solid water. <i>Physical Review E</i> , 1993, 48, 4605-4610.	0.8	181
32	Density minimum and liquid-liquid phase transition. <i>Journal of Physics Condensed Matter</i> , 2005, 17, L431-L437.	0.7	181
33	One-Dimensional Cluster Growth and Branching Gels in Colloidal Systems with Short-Range Depletion Attraction and Screened Electrostatic Repulsion. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21942-21953.	1.2	179
34	Potential energy landscape description of supercooled liquids and glasses. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2005, 2005, P05015.	0.9	176
35	Second critical point in two realistic models of water. <i>Science</i> , 2020, 369, 289-292.	6.0	176
36	Hydrogen bond cooperativity in simulated water: Time dependence analysis of pair interactions. <i>Journal of Chemical Physics</i> , 1989, 90, 2786-2792.	1.2	169

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37	Phase equilibria and glass transition in colloidal systems with short-ranged attractive interactions: Application to protein crystallization. <i>Physical Review E</i> , 2002, 65, 031407.	0.8	168
38	Liquids more stable than crystals in particles with limited valence and flexible bonds. <i>Nature Physics</i> , 2013, 9, 554-558.	6.5	160
39	Phase behavior and critical activated dynamics of limited-valence DNA nanostars. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15633-15637.	3.3	156
40	Equation of state of supercooled water simulated using the extended simple point charge intermolecular potential. <i>Journal of Chemical Physics</i> , 1997, 107, 7443-7450.	1.2	152
41	Advances in Computational Studies of the Liquid-Liquid Transition in Water and Water-Like Models. <i>Chemical Reviews</i> , 2018, 118, 9129-9151.	23.0	152
42	Theoretical and numerical study of the phase diagram of patchy colloids: Ordered and disordered patch arrangements. <i>Journal of Chemical Physics</i> , 2008, 128, 144504.	1.2	150
43	Reversible gels of patchy particles: Role of the valence. <i>Journal of Chemical Physics</i> , 2009, 131, 014504.	1.2	146
44	Model for Reversible Colloidal Gelation. <i>Physical Review Letters</i> , 2005, 94, 218301.	2.9	143
45	Colloidal systems with competing interactions: from an arrested repulsive cluster phase to a gel. <i>Soft Matter</i> , 2009, 5, 2390.	1.2	143
46	Lifetime of the bond network and gel-like anomalies in supercooled water. <i>Physical Review Letters</i> , 1990, 64, 1686-1689.	2.9	141
47	Confirmation of anomalous dynamical arrest in attractive colloids: A molecular dynamics study. <i>Physical Review E</i> , 2002, 66, 041402.	0.8	138
48	Scaling of Dynamics with the Range of Interaction in Short-Range Attractive Colloids. <i>Physical Review Letters</i> , 2005, 94, 078301.	2.9	134
49	Patterning symmetry in the rational design of colloidal crystals. <i>Nature Communications</i> , 2012, 3, 975.	5.8	134
50	Molecular-dynamics study of incoherent quasielastic neutron-scattering spectra of supercooled water. <i>Physical Review E</i> , 1997, 56, 4231-4243.	0.8	133
51	Supercooled water and the kinetic glass transition. <i>Collective dynamics</i> . <i>Physical Review E</i> , 1997, 56, 5397-5404.	0.8	131
52	Extension of the Fluctuation-Dissipation Theorem to the Physical Aging of a Model Glass-Forming Liquid. <i>Physical Review Letters</i> , 2001, 86, 107-110.	2.9	129
53	Aging as dynamics in configuration space. <i>Europhysics Letters</i> , 2000, 49, 590-596.	0.7	128
54	Isochoric differential scattering functions in liquid water: The fifth neighbor as a network defect. <i>Physical Review Letters</i> , 1990, 65, 3452-3455.	2.9	124

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55	Glass-Transition Temperature of Water: A Simulation Study. <i>Physical Review Letters</i> , 2004, 93, 047801.	2.9	123
56	A numerical study of one-patch colloidal particles: from square-well to Janus. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11869.	1.3	123
57	Erasing no-manâ€™s land by thermodynamically stabilizing the liquidâ€™liquid transition in tetrahedral particles. <i>Nature Physics</i> , 2014, 10, 653-657.	6.5	123
58	Vapor-liquid coexistence of patchy models: Relevance to protein phase behavior. <i>Journal of Chemical Physics</i> , 2007, 127, 084902.	1.2	121
59	Static and dynamic properties of water-in-oil microemulsions near the critical and percolation points. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 10855-10883.	0.7	118
60	Free energy surface of ST2 water near the liquid-liquid phase transition. <i>Journal of Chemical Physics</i> , 2013, 138, 034505.	1.2	118
61	Study of the ST2 model of water close to the liquidâ€™liquid critical point. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19759.	1.3	117
62	Asymmetric caging in soft colloidal mixtures. <i>Nature Materials</i> , 2008, 7, 780-784.	13.3	116
63	Phase diagram of a tetrahedral patchy particle model for different interaction ranges. <i>Journal of Chemical Physics</i> , 2010, 132, .	1.2	116
64	Crystallization of tetrahedral patchy particles <i>in silico</i> . <i>Journal of Chemical Physics</i> , 2011, 134, 174502.	1.2	116
65	Model for single-particle dynamics in supercooled water. <i>Physical Review E</i> , 1999, 59, 6708-6714.	0.8	115
66	Patchy from the bottom up. <i>Nature Materials</i> , 2011, 10, 171-173.	13.3	114
67	Anomalous dynamics of intruders in a crowded environment of mobile obstacles. <i>Nature Communications</i> , 2016, 7, 11133.	5.8	114
68	Debye-Waller Factor of Liquid Silica: Theory and Simulation. <i>Physical Review Letters</i> , 2001, 86, 648-651.	2.9	112
69	Arrested phase separation in a short-ranged attractive colloidal system: A numerical study. <i>Journal of Chemical Physics</i> , 2005, 122, 224903.	1.2	112
70	Modeling equilibrium clusters in lysozyme solutions. <i>Europhysics Letters</i> , 2007, 77, 48004.	0.7	112
71	Free energy and configurational entropy of liquid silica: Fragile-to-strong crossover and polymorphism. <i>Physical Review E</i> , 2004, 69, 041503.	0.8	110
72	Slow Dynamics of Water under Pressure. <i>Physical Review Letters</i> , 1999, 82, 3629-3632.	2.9	108

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73	Cluster-Driven Dynamical Arrest in Concentrated Lysozyme Solutions. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7227-7237.	1.2	108
74	Evidence of a Higher-Order Singularity in Dense Short-Ranged Attractive Colloids. <i>Physical Review Letters</i> , 2003, 91, 268301.	2.9	107
75	Structural Arrest in Dense Star-Polymer Solutions. <i>Physical Review Letters</i> , 2003, 90, 238301.	2.9	107
76	Effects of patch size and number within a simple model of patchy colloids. <i>Journal of Chemical Physics</i> , 2010, 132, 174110.	1.2	107
77	Mechanical properties of a model of attractive colloidal solutions. <i>Physical Review E</i> , 2001, 63, 031501.	0.8	106
78	Two dimensional assembly of triblock Janus particles into crystal phases in the two bond per patch limit. <i>Soft Matter</i> , 2011, 7, 5799.	1.2	106
79	Reversible gels of patchy particles. <i>Current Opinion in Solid State and Materials Science</i> , 2011, 15, 246-253.	5.6	106
80	Limits of stability of the liquid phase in a lattice model with water-like properties. <i>Journal of Chemical Physics</i> , 1993, 98, 9863-9872.	1.2	105
81	Reentrant Phase Diagram of Network Fluids. <i>Physical Review Letters</i> , 2011, 106, 085703.	2.9	104
82	Static and dynamic anomalies in a repulsive spherical ramp liquid: Theory and simulation. <i>Physical Review E</i> , 2005, 72, 021501.	0.8	102
83	Evidence for an unusual dynamical-arrest scenario in short-ranged colloidal systems. <i>Physical Review E</i> , 2002, 65, 050802.	0.8	99
84	Dynamics in the Presence of Attractive Patchy Interactions. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8064-8079.	1.2	99
85	Supercooled and glassy water: Metastable liquid(s), amorphous solid(s), and a no-man's land. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13336-13344.	3.3	99
86	Dynamics and configurational entropy in the Lewis-Wahnström model for supercooled orthoterphenyl. <i>Physical Review E</i> , 2002, 65, 041205.	0.8	98
87	Harmonic Dynamics in Supercooled Liquids: The Case of Water. <i>Physical Review Letters</i> , 1997, 78, 2385-2388.	2.9	97
88	Is there a second critical point in liquid water?. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 205, 122-139.	1.2	96
89	Sound propagation in liquid water: The puzzle continues. <i>Journal of Chemical Physics</i> , 1994, 100, 3881-3893.	1.2	95
90	Patchy Particle Model for Vitrimers. <i>Physical Review Letters</i> , 2013, 111, 188002.	2.9	95

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91	$\hat{\tau}$ -relaxation processes in binary hard-sphere mixtures. <i>Physical Review E</i> , 2004, 69, 011505.	0.8	92
92	On the Possibility of Extending the Noro-Frenkel Generalized Law of Correspondent States to Nonisotropic Patchy Interactions. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9702-9705.	1.2	89
93	Tuning the Liquid-Liquid Transition by Modulating the Hydrogen-Bond Angular Flexibility in a Model for Water. <i>Physical Review Letters</i> , 2015, 115, 015701.	2.9	89
94	No Evidence of Gas-Liquid Coexistence in Dipolar Hard Spheres. <i>Physical Review Letters</i> , 2011, 107, 237801.	2.9	88
95	Molecular mode-coupling theory for supercooled liquids: Application to water. <i>Physical Review E</i> , 1999, 60, 5768-5777.	0.8	87
96	Predicting crystals of Janus colloids. <i>Journal of Chemical Physics</i> , 2013, 138, 164505.	1.2	87
97	Mixing Effects for the Structural Relaxation in Binary Hard-Sphere Liquids. <i>Physical Review Letters</i> , 2003, 91, 085701.	2.9	86
98	Landscapes and fragilities. <i>Journal of Chemical Physics</i> , 2004, 120, 10666-10680.	1.2	85
99	Gel to glass transition in simulation of a valence-limited colloidal system. <i>Journal of Chemical Physics</i> , 2006, 124, 124908.	1.2	85
100	Model for assembly and gelation of four-armed DNA dendrimers. <i>Journal of Physics Condensed Matter</i> , 2006, 18, L347-L353.	0.7	84
101	Fully Solvable Equilibrium Self-Assembly Process: Fine-Tuning the Clusters Size and the Connectivity in Patchy Particle Systems. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11765-11769.	1.2	83
102	Instantaneous Normal Mode Analysis of Supercooled Water. <i>Physical Review Letters</i> , 2000, 84, 4605-4608.	2.9	80
103	Structural properties of the dipolar hard-sphere fluid at low temperatures and densities. <i>Soft Matter</i> , 2012, 8, 6310.	1.2	80
104	Thermodynamic and structural aspects of the potential energy surface of simulated water. <i>Physical Review E</i> , 2001, 63, 041201.	0.8	78
105	Crossover (or Kovacs) Effect in an Aging Molecular Liquid. <i>Physical Review Letters</i> , 2004, 92, 045504.	2.9	78
106	Gelation as arrested phase separation in short-ranged attractive colloid-polymer mixtures. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 494242.	0.7	78
107	Evidence of a two-state picture for supercooled water and its connections with glassy dynamics. <i>European Physical Journal E</i> , 2009, 29, 305-310.	0.7	78
108	Dynamical Behavior Near a Liquid-Liquid Phase Transition in Simulations of Supercooled Water. <i>Journal of Physical Chemistry B</i> , 2011, 115, 14176-14183.	1.2	75

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109	Nonmonotonic Magnetic Susceptibility of Dipolar Hard-Spheres at Low Temperature and Density. <i>Physical Review Letters</i> , 2013, 110, 148306.	2.9	75
110	Gels of DNA Nanostars Never Crystallize. <i>ACS Nano</i> , 2014, 8, 3567-3574.	7.3	74
111	Phase diagram of silica from computer simulation. <i>Physical Review E</i> , 2004, 70, 061507.	0.8	73
112	Self-Assembling DNA Dendrimers: A Numerical Study. <i>Langmuir</i> , 2007, 23, 5896-5905.	1.6	73
113	Interference of phase separation and gelation: A zeroth-order kinetic model. <i>Physical Review E</i> , 1993, 47, 4615-4618.	0.8	72
114	Amorphous polymorphism. <i>Computational Materials Science</i> , 1995, 4, 373-382.	1.4	72
115	Physics of the Liquid-Liquid Critical Point. <i>Physical Review Letters</i> , 2003, 91, 155701.	2.9	72
116	Re-entrant phase behaviour of network fluids: A patchy particle model with temperature-dependent valence. <i>Journal of Chemical Physics</i> , 2011, 135, 034501.	1.2	72
117	Self-Assembly of Bifunctional Patchy Particles with Anisotropic Shape into Polymers Chains: Theory, Simulations, and Experiments. <i>Macromolecules</i> , 2012, 45, 1090-1106.	2.2	72
118	Potential Energy Landscape Equation of State. <i>Physical Review Letters</i> , 2002, 88, 225701.	2.9	70
119	Re-entrant DNA gels. <i>Nature Communications</i> , 2016, 7, 13191.	5.8	69
120	Tailoring the Flow of Soft Glasses by Soft Additives. <i>Physical Review Letters</i> , 2005, 95, 268301.	2.9	68
121	Thermodynamics of supercooled liquids in the inherent-structure formalism: a case study. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 6525-6534.	0.7	67
122	Relation between the High Density Phase and the Very-High Density Phase of Amorphous Solid Water. <i>Physical Review Letters</i> , 2005, 94, 107803.	2.9	67
123	Hierarchies of networked phases induced by multiple liquid-liquid critical points. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 13711-13715.	3.3	67
124	The vanishing limit of the square-well fluid: The adhesive hard-sphere model as a reference system. <i>Journal of Chemical Physics</i> , 2008, 128, 134513.	1.2	67
125	Dynamics of Vitrimers: Defects as a Highway to Stress Relaxation. <i>Physical Review Letters</i> , 2018, 121, 058003.	2.9	67
126	Fractal landscapes in biological systems: Long-range correlations in DNA and interbeat heart intervals. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992, 191, 1-12.	1.2	66

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127	Gel-forming patchy colloids and network glass formers: thermodynamic and dynamic analogies. <i>European Physical Journal B</i> , 2008, 64, 505-509.	0.6	66
128	Freely Jointed Polymers Made of Droplets. <i>Physical Review Letters</i> , 2018, 121, 138002.	2.9	64
129	Role of Unstable Directions in the Equilibrium and Aging Dynamics of Supercooled Liquids. <i>Physical Review Letters</i> , 2000, 85, 1464-1467.	2.9	62
130	Pinning in phase-separating systems. <i>Physical Review E</i> , 1994, 49, 247-258.	0.8	61
131	Ising Universality Class for the Liquid-Liquid Critical Point of a One Component Fluid: A Finite-Size Scaling Test. <i>Physical Review Letters</i> , 2012, 109, 177801.	2.9	61
132	Order parameters of gels and gelation kinetics of aqueous agarose systems: Relation to the spinodal decomposition of the sol. <i>Biopolymers</i> , 1987, 26, 743-761.	1.2	60
133	Phase Diagram of One-Patch Colloids Forming Tubes and Lamellae. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9540-9547.	1.2	60
134	Free energy surface of supercooled water. <i>Physical Review E</i> , 2000, 62, 8016-8020.	0.8	58
135	Dynamics of Uniaxial Hard Ellipsoids. <i>Physical Review Letters</i> , 2007, 98, 265702.	2.9	58
136	Crystal stability limits at positive and negative pressures, and crystal-to-glass transitions. <i>Physical Review E</i> , 1995, 52, 6484-6491.	0.8	57
137	Transitions between inherent structures in water. <i>Physical Review E</i> , 2002, 65, 041502.	0.8	57
138	Self-assembly of short DNA duplexes: from a coarse-grained model to experiments through a theoretical link. <i>Soft Matter</i> , 2012, 8, 8388.	1.2	56
139	Cluster formation in one-patch colloids: low coverage results. <i>Soft Matter</i> , 2013, 9, 2652.	1.2	56
140	Configuration Space Connectivity across the Fragile-to-Strong Transition in Silica. <i>Physical Review Letters</i> , 2002, 88, 035501.	2.9	55
141	Is There a Reentrant Glass in Binary Mixtures?. <i>Physical Review Letters</i> , 2004, 92, 225703.	2.9	55
142	Quantitative investigation of the two-state picture for water in the normal liquid and the supercooled regime. <i>European Physical Journal E</i> , 2011, 34, 48.	0.7	55
143	Evidence for the Weak Steric Hindrance Scenario in the Supercooled-State Reorientational Dynamics. <i>Physical Review Letters</i> , 2005, 94, 215701.	2.9	54
144	Long-range fractal correlations in DNA. <i>Physical Review Letters</i> , 1993, 71, 1776-1776.	2.9	53

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145	Energy landscapes, ideal glasses, and their equation of state. <i>Journal of Chemical Physics</i> , 2003, 118, 8821-8830.	1.2	53
146	Phase diagram of amorphous solid water: Low-density, high-density, and very-high-density amorphous ices. <i>Physical Review E</i> , 2005, 72, 031510.	0.8	53
147	Equilibrium phases of one-patch colloids with short-range attractions. <i>Soft Matter</i> , 2014, 10, 5121-5128.	1.2	53
148	Equilibrium gels of low-valence DNA nanostars: a colloidal model for strong glass formers. <i>Soft Matter</i> , 2015, 11, 3132-3138.	1.2	53
149	Equilibrium gels of limited valence colloids. <i>Current Opinion in Colloid and Interface Science</i> , 2017, 30, 90-96.	3.4	53
150	Gaussian density fluctuations and mode coupling theory for supercooled liquids. <i>Europhysics Letters</i> , 2001, 55, 157-163.	0.7	52
151	Routes to colloidal gel formation. <i>Computer Physics Communications</i> , 2005, 169, 166-171.	3.0	52
152	Quasisaddles as relevant points of the potential energy surface in the dynamics of supercooled liquids. <i>Journal of Chemical Physics</i> , 2002, 116, 10297-10306.	1.2	50
153	Equilibrium self-assembly of colloids with distinct interaction sites: Thermodynamics, percolation, and cluster distribution functions. <i>Journal of Chemical Physics</i> , 2010, 132, 234502.	1.2	50
154	Accurate phase diagram of tetravalent DNA nanostars. <i>Journal of Chemical Physics</i> , 2014, 140, .	1.2	50
155	General features of the energy landscape in Lennard-Jones-like model liquids. <i>Journal of Chemical Physics</i> , 2003, 119, 2120-2126.	1.2	49
156	Fractal landscape analysis of DNA walks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992, 191, 25-29.	1.2	48
157	Structural order in glassy water. <i>Physical Review E</i> , 2005, 71, 061505.	0.8	48
158	Test of molecular mode coupling theory for general rigid molecules. <i>Physical Review E</i> , 2000, 62, 1856-1861.	0.8	47
159	Potential-Energy Landscape Study of the Amorphous-Amorphous Transformation in H ₂ O. <i>Physical Review Letters</i> , 2003, 91, 115504.	2.9	47
160	Effect of bond lifetime on the dynamics of a short-range attractive colloidal system. <i>Physical Review E</i> , 2004, 70, 041401.	0.8	47
161	Role of the Range in the Fluid-Crystal Coexistence for a Patchy Particle Model. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15133-15136.	1.2	47
162	How fluorescent labelling alters the solution behaviour of proteins. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31177-31187.	1.3	47

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163	Multiple Glass Transitions in Star Polymer Mixtures: Insights from Theory and Simulations. <i>Macromolecules</i> , 2009, 42, 423-434.	2.2	46
164	Structure Factor Scaling during Irreversible Cluster-Cluster Aggregation. <i>Physical Review Letters</i> , 1995, 74, 282-285.	2.9	45
165	Energy Landscape of a Simple Model for Strong Liquids. <i>Physical Review Letters</i> , 2005, 95, 157802.	2.9	45
166	Quantitative tests of mode-coupling theory for fragile and strong glass formers. <i>Journal of Non-Crystalline Solids</i> , 2002, 307-310, 181-187.	1.5	44
167	Scaling in soft spheres: fragility invariance on the repulsive potential softness. <i>Journal of Physics Condensed Matter</i> , 2004, 16, L489-L494.	0.7	44
168	Self-Assembly in Chains, Rings, and Branches: A Single Component System with Two Critical Points. <i>Physical Review Letters</i> , 2013, 111, 168302.	2.9	44
169	Collective excitations in liquid water at low frequency and large wave vector. <i>Journal of Chemical Physics</i> , 1991, 95, 7775-7776.	1.2	43
170	Leveraging Hierarchical Self-Assembly Pathways for Realizing Colloidal Photonic Crystals. <i>ACS Nano</i> , 2020, 14, 5348-5359.	7.3	43
171	A molecular dynamics study of chemical gelation in a patchy particle model. <i>Soft Matter</i> , 2008, 4, 1173.	1.2	42
172	Phase diagram and structural properties of a simple model for one-patch particles. <i>Journal of Chemical Physics</i> , 2009, 131, 174114.	1.2	42
173	Cluster theory of Janus particles. <i>Soft Matter</i> , 2011, 7, 2419.	1.2	41
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