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	Treatment of kidney clear cell carcinoma, lung adenocarcinoma and glioblastoma cell lines with hydrogels made of DNA nanostars. Biomaterials Science, 2022, 10, 1304-1316.	2.6	6
2	The physics of empty liquids: from patchy particles to water. Reports on Progress in Physics, 2022, 85, 016601.	8.1	20
3	Decompression dynamics of high density amorphous ice above and below the liquid-liquid critical point. Journal of Non-Crystalline Solids: X, 2022, 13, 100081.	0.5	4
4	SAT-assembly: a new approach for designing self-assembling systems. Journal of Physics Condensed Matter, 2022, 34, 354002.	0.7	7
5	Liquidâ€“liquid criticality in the WAIL water model. Journal of Chemical Physics, 2022, 157, .	1.2	20
6	Phase Behavior and Microscopic Dynamics of a Thermosensitive Gel-Forming Polymer. Macromolecules, 2021, 54, 3897-3906.	2.2	6
7	Structural and topological changes across the liquidâ€“liquid transition in water. Journal of Chemical Physics, 2021, 154, 184506.	1.2	21
8	Monodisperse patchy particle glass former. Journal of Chemical Physics, 2021, 154, 174501.	1.2	5
9	Gel Formation in Reversibly Cross-Linking Polymers. Macromolecules, 2021, 54, 6613-6627.	2.2	7
10	Hydrodynamic instability and flow reduction in polymer brush coated channels. Soft Matter, 2021, 17, 9235-9245.	1.2	1
11	Structure of High-Pressure Supercooled and Glassy Water. Physical Review Letters, 2021, 127, 175502.	2.9	13
12	Building up DNA, bit by bit: a simple description of chain assembly. Soft Matter, 2021, 17, 10736-10743.	1.2	0
13	Facile self-assembly of colloidal diamond from tetrahedral patchy particles via ring selection. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	17
14	Advances in the study of supercooled water. European Physical Journal E, 2021, 44, 143.	0.7	40
15	Spatially uniform dynamics in equilibrium colloidal gels. Science Advances, 2021, 7, eabk2360.	4.7	12
16	DNA-GEL, Novel Nanomaterial for Biomedical Applications and Delivery of Bioactive Molecules. Frontiers in Pharmacology, 2020, 11, 01345.	1.6	17
17	Aggregate formation in fluids with bounded repulsive core and competing interactions. Journal of Molecular Liquids, 2020, 303, 112601.	2.3	3
18	Second critical point in two realistic models of water. Science, 2020, 369, 289-292.	6.0	176

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19	Hyperbranched DNA clusters. Nanoscale, 2020, 12, 23003-23012.	2.8	3
20	Connection between liquid and non-crystalline solid phases in water. Journal of Chemical Physics, 2020, 153, 104503.	1.2	25
21	Gelling without Structuring: A SAXS Study of the Interactions among DNA Nanostars. Langmuir, 2020, 36, 10387-10396.	1.6	10
22	Combinatorial-Entropy-Driven Aggregation in DNA-Grafted Nanoparticles. ACS Nano, 2020, 14, 5628-5635.	7.3	15
23	Leveraging Hierarchical Self-Assembly Pathways for Realizing Colloidal Photonic Crystals. ACS Nano, 2020, 14, 5348-5359.	7.3	43
24	A structural indicator for water built upon potential energy considerations. Journal of Chemical Physics, 2020, 152, 244503.	1.2	25
25	The stability-limit conjecture revisited. Journal of Chemical Physics, 2019, 150, 234502.	1.2	18
26	Patchy Particle Models to Understand Protein Phase Behavior. Methods in Molecular Biology, 2019, 2039, 187-208.	0.4	5
27	Glass polymorphism in TIP4P/2005 water: A description based on the potential energy landscape formalism. Journal of Chemical Physics, 2019, 150, 244506.	1.2	20
28	General Methodology to Identify the Minimum Alphabet Size for Heteropolymer Design. Advanced Theory and Simulations, 2019, 2, 1900031.	1.3	8
29	Patchy particles at a hard wall: Orientation-dependent bonding. Journal of Chemical Physics, 2019, 151, 174903.	1.2	6
30	Assembly of clathrates from tetrahedral patchy colloids with narrow patches. Journal of Chemical Physics, 2019, 151, 094502.	1.2	20
31	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>q</mml:mi></mml:math> -Independent Slow Dynamics in Atomic and Molecular Systems. Physical Review Letters, 2019, 122, 175501.	2.9	19
32	Cold-swappable DNA gels. Nanoscale, 2019, 11, 9691-9697.	2.8	18
33	Size dependence of dynamic fluctuations in liquid and supercooled water. Journal of Chemical Physics, 2019, 150, 144505.	1.2	5
34	Several glasses of water but one dense liquid. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9149-9151.	3.3	6
35	Supercooled water: A polymorphic liquid with a cornucopia of behaviors. Journal of Chemical Physics, 2019, 151, 210401.	1.2	9
36	All-DNA System Close to the Percolation Threshold. ACS Macro Letters, 2019, 8, 84-87.	2.3	2

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37	Evaluating the Laplace pressure of water nanodroplets from simulations. Journal of Physics Condensed Matter, 2018, 30, 144005.	0.7	15
38	Potential energy landscape of TIP4P/2005 water. Journal of Chemical Physics, 2018, 148, 134505.	1.2	32
39	Binding branched and linear DNA structures: From isolated clusters to fully bonded gels. Journal of Chemical Physics, 2018, 148, 025103.	1.2	10
40	Self-Dynamics and Collective Swap-Driven Dynamics in a Particle Model for Vitrimers. Macromolecules, 2018, 51, 1232-1241.	2.2	41
41	Freely Jointed Polymers Made of Droplets. Physical Review Letters, 2018, 121, 138002.	2.9	64
42	Spatiotemporal intermittency and localized dynamic fluctuations upon approaching the glass transition. Physical Review E, 2018, 97, 060601.	0.8	6
43	Dynamics of Vitrimers: Defects as a Highway to Stress Relaxation. Physical Review Letters, 2018, 121, 058003.	2.9	67
44	Exploiting limited valence patchy particles to understand autocatalytic kinetics. Nature Communications, 2018, 9, 2647.	5.8	4
45	The Adamâ€“Gibbs relation and the TIP4P/2005 model of water. Molecular Physics, 2018, 116, 3366-3371.	0.8	11
46	Advances in Computational Studies of the Liquidâ€“Liquid Transition in Water and Water-Like Models. Chemical Reviews, 2018, 118, 9129-9151.	23.0	152
47	Microrheology of DNA hydrogel gelling and melting on cooling. Soft Matter, 2018, 14, 6431-6438.	1.2	37
48	Condensation and Demixing in Solutions of DNA Nanostars and Their Mixtures. ACS Nano, 2017, 11, 2094-2102.	7.3	28
49	Three-body potential for simulating bond swaps in molecular dynamics. European Physical Journal E, 2017, 40, 3.	0.7	38
50	Communication: Re-entrant limits of stability of the liquid phase and the Speedy scenario in colloidal model systems. Journal of Chemical Physics, 2017, 146, 041103.	1.2	25
51	Phase behaviour in complementary DNA-coated gold nanoparticles and fd-viruses mixtures: a numerical study. European Physical Journal E, 2017, 40, 7.	0.7	4
52	Equilibrium gels of limited valence colloids. Current Opinion in Colloid and Interface Science, 2017, 30, 90-96.	3.4	53
53	Connectivity, dynamics, and structure in a tetrahedral network liquid. Soft Matter, 2017, 13, 514-530.	1.2	29
54	Free energy calculations for rings and chains formed by dipolar hard spheres. Soft Matter, 2017, 13, 7870-7878.	1.2	15

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55	Which way to low-density liquid water?. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8141-8143.	3.3	5
56	Fluctuating Elasticity Mode in Transient Molecular Networks. Physical Review Letters, 2017, 119, 078002.	2.9	29
57	â€œSwarm relaxationâ€• Equilibrating a large ensemble of computer simulationsâ‹†. European Physical Journal E, 2017, 40, 98.	0.7	7
58	Supercooled and glassy water: Metastable liquid(s), amorphous solid(s), and a no-manâ€™s land. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13336-13344.	3.3	99
59	Small-angle neutron scattering and molecular dynamics structural study of gelling DNA nanostars. Journal of Chemical Physics, 2016, 145, 084910.	1.2	30
60	Discontinous change from thermally- to geometrically-dominated effective interactions in colloidal solutions. Soft Matter, 2016, 12, 9649-9656.	1.2	3
61	Potential energy landscape of the apparent first-order phase transition between low-density and high-density amorphous ice. Journal of Chemical Physics, 2016, 145, 224501.	1.2	27
62	Toward the observation of a liquid-liquid phase transition in patchy origami tetrahedra: a numerical study. European Physical Journal E, 2016, 39, 131.	0.7	9
63	Anomalous dynamics of intruders in a crowded environment of mobile obstacles. Nature Communications, 2016, 7, 11133.	5.8	114
64	Re-entrant DNA gels. Nature Communications, 2016, 7, 13191.	5.8	69
65	Surface wave excitations and backflow effect over dense polymer brushes. Scientific Reports, 2016, 6, 22257.	1.6	7
66	Crystals of Janus colloids at various interaction ranges. Journal of Chemical Physics, 2016, 145, .	1.2	20
67	Tuning the Liquid-Liquid Transition by Modulating the Hydrogen-Bond Angular Flexibility in a Model for Water. Physical Review Letters, 2015, 115, 015701.	2.9	89
68	Unusual Dynamics of Concentration Fluctuations in Solutions of Weakly Attractive Globular Proteins. Journal of Physical Chemistry Letters, 2015, 6, 4470-4474.	2.1	25
69	Phase diagram of the ST2 model of water. Molecular Physics, 2015, 113, 2791-2798.	0.8	25
70	Free energy of formation of small ice nuclei near the Widom line in simulations of supercooled water. European Physical Journal E, 2015, 38, 124.	0.7	15
71	Patchy particles. Journal of Physics Condensed Matter, 2015, 27, 230301.	0.7	5
72	Temperature-induced structural transitions in self-assembling magnetic nanocolloids. Physical Chemistry Chemical Physics, 2015, 17, 16601-16608.	1.3	38

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73	How fluorescent labelling alters the solution behaviour of proteins. Physical Chemistry Chemical Physics, 2015, 17, 31177-31187.	1.3	47
74	Switching Bonds in a DNA Gel: An All-DNA Vitrimer. Physical Review Letters, 2015, 114, 078104.	2.9	32
75	Cluster formation and phase separation in heteronuclear Janus dumbbells. Journal of Physics Condensed Matter, 2015, 27, 234101.	0.7	23
76	Equilibrium gels of trivalent DNA-nanostars: Effect of the ionic strength on the dynamics. European Physical Journal E, 2015, 38, 64.	0.7	29
77	Reference interaction site model and optimized perturbation theories of colloidal dumbbells with increasing anisotropy. Journal of Chemical Physics, 2015, 142, 224904.	1.2	10
78	Equilibrium gels of low-valence DNA nanostars: a colloidal model for strong glass formers. Soft Matter, 2015, 11, 3132-3138.	1.2	53
79	Low temperature structural transitions in dipolar hard spheres: The influence on magnetic properties. Journal of Magnetism and Magnetic Materials, 2015, 383, 272-276.	1.0	5
80	Liquidâ€“Liquid Phase Transitions in Tetrahedrally Coordinated Fluids via Wertheim Theory. Journal of Physical Chemistry B, 2015, 119, 9076-9083.	1.2	7
81	Self-assembly of mesogenic bent-core DNA nanoduplexes. Soft Matter, 2015, 11, 2934-2944.	1.2	10
82	From square-well to Janus: Improved algorithm for integral equation theory and comparison with thermodynamic perturbation theory within the Kern-Frenkel model. Journal of Chemical Physics, 2014, 140, 094104.	1.2	19
83	Cooperative polymerization of one-patch colloids. Journal of Chemical Physics, 2014, 140, 144902.	1.2	27
84	Multiple Glass Singularities and Isodynamics in a Core-Softened Model for Glass-Forming Systems. Physical Review Letters, 2014, 113, 258302.	2.9	17
85	Casimir-like forces at the percolation transition. Nature Communications, 2014, 5, 3267.	5.8	35
86	Self-Assembly-Driven Nematization. Langmuir, 2014, 30, 4814-4819.	1.6	26
87	Accurate phase diagram of tetravalent DNA nanostars. Journal of Chemical Physics, 2014, 140, .	1.2	50
88	Equilibrium phases of one-patch colloids with short-range attractions. Soft Matter, 2014, 10, 5121-5128.	1.2	53
89	Phase separation and self-assembly of colloidal dimers with tunable attractive strength: from symmetrical square-wells to Janus dumbbells. Soft Matter, 2014, 10, 5269-5279.	1.2	31
90	Erasing no-manâ€™s land by thermodynamically stabilizing the liquidâ€“liquid transition in tetrahedral particles. Nature Physics, 2014, 10, 653-657.	6.5	123

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91	â€œCrystal-clearâ€•liquidâ€“liquid transition in a tetrahedral fluid. Soft Matter, 2014, 10, 9413-9422.	1.2	25
92	Gels of DNA Nanostars Never Crystallize. ACS Nano, 2014, 8, 3567-3574.	7.3	74
93	Self-assembly of hard helices: a rich and unconventional polymorphism. Soft Matter, 2014, 10, 8171-8187.	1.2	37
94	Observable-dependence of the effective temperature in off-equilibrium diatomic molecular liquids. Journal of Chemical Physics, 2014, 141, 194507.	1.2	1
95	Free energy surface of ST2 water near the liquid-liquid phase transition. Journal of Chemical Physics, 2013, 138, 034505.	1.2	118
96	Liquids more stable than crystals in particles with limited valence and flexible bonds. Nature Physics, 2013, 9, 554-558.	6.5	160
97	Understanding tetrahedral liquids through patchy colloids. Journal of Chemical Physics, 2013, 139, 234901.	1.2	41
98	Phase diagram of a reentrant gel of patchy particles. Journal of Chemical Physics, 2013, 139, 244910.	1.2	18
99	On the gasâ€“liquid phase separation and the self-assembly of charged soft dumbbells. Molecular Physics, 2013, 111, 3608-3617.	0.8	14
100	Generalized Fluctuation-Dissipation Relation and Effective Temperature Upon Heating a Deeply Supercooled Liquid. Physical Review Letters, 2013, 110, 035701.	2.9	11
101	Structure and phase behavior of colloidal dumbbells with tunable attractive interactions. Physical Chemistry Chemical Physics, 2013, 15, 20590.	1.3	28
102	Soft heaps and clumpy crystals. Nature, 2013, 493, 30-31.	13.7	21
103	Flying to the bottom. Nature Materials, 2013, 12, 94-95.	13.3	30
104	Patchy Particle Model for Vitrimers. Physical Review Letters, 2013, 111, 188002.	2.9	95
105	Self-Assembly in Chains, Rings, and Branches: A Single Component System with Two Critical Points. Physical Review Letters, 2013, 111, 168302.	2.9	44
106	Cluster Phases of Decorated Micellar Solutions with Macrocyclic Ligands. Journal of Physical Chemistry B, 2013, 117, 3613-3623.	1.2	1
107	Cluster formation in one-patch colloids: low coverage results. Soft Matter, 2013, 9, 2652.	1.2	56
108	How to calculate structure factors of self-assembling anisotropic particles. Soft Matter, 2013, 9, 4412.	1.2	10

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109	Nonmonotonic Magnetic Susceptibility of Dipolar Hard-Spheres at Low Temperature and Density. Physical Review Letters, 2013, 110, 148306.	2.9	75
110	Computing the phase diagram of binary mixtures: A patchy particle case study. Journal of Chemical Physics, 2013, 138, 164904.	1.2	27
111	The influence of shape anisotropy on the microstructure of magnetic dipolar particles. Soft Matter, 2013, 9, 6594.	1.2	22
112	Gelling by Heating. Scientific Reports, 2013, 3, 2451.	1.6	27
113	Phase Diagram of One-Patch Colloids Forming Tubes and Lamellae. Journal of Physical Chemistry B, 2013, 117, 9540-9547.	1.2	60
114	Unveiling the complex glassy dynamics of square shoulder systems: Simulations and theory. Journal of Chemical Physics, 2013, 138, 134501.	1.2	17
115	Phase behavior and critical activated dynamics of limited-valence DNA nanostars. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15633-15637.	3.3	156
116	Branching points in the low-temperature dipolar hard sphere fluid. Journal of Chemical Physics, 2013, 139, 134901.	1.2	33
117	Predicting crystals of Janus colloids. Journal of Chemical Physics, 2013, 138, 164505.	1.2	87
118	Observation of empty liquids and equilibrium gels in a colloidal clay. , 2013, , .		4
119	Instantaneous Normal Mode in Supercooled Water. Progress of Theoretical Physics Supplement, 2013, 126, 267-272.	0.2	0
120	Cooperative Molecular Motions in Water. Progress of Theoretical Physics Supplement, 2013, 126, 201-206.	0.2	0
121	Quantitative description of the self-assembly of patchy particles into chains and rings. Journal of Chemical Physics, 2012, 137, 044901.	1.2	36
122	Properties of patchy colloidal particles close to a surface: A Monte Carlo and density functional study. Journal of Chemical Physics, 2012, 137, 084704.	1.2	27
123	Tuning effective interactions close to the critical point in colloidal suspensions. Journal of Chemical Physics, 2012, 137, 084903.	1.2	14
124	DNA Hairs Provide Potential for Molecular Self-Assembly. Physics Magazine, 2012, 5, .	0.1	0
125	Self-assembly of short DNA duplexes: from a coarse-grained model to experiments through a theoretical link. Soft Matter, 2012, 8, 8388.	1.2	56
126	Structural properties of the dipolar hard-sphere fluid at low temperatures and densities. Soft Matter, 2012, 8, 6310.	1.2	80

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127	Self-Assembly of Bifunctional Patchy Particles with Anisotropic Shape into Polymers Chains: Theory, Simulations, and Experiments. Macromolecules, 2012, 45, 1090-1106.	2.2	72
128	Ising Universality Class for the Liquid-Liquid Critical Point of a One Component Fluid: A Finite-Size Scaling Test. Physical Review Letters, 2012, 109, 177801.	2.9	61
129	Fluid-fluid and fluid-solid transitions in the Kern-Frenkel model from Barker-Henderson thermodynamic perturbation theory. Journal of Chemical Physics, 2012, 136, 094512.	1.2	24
130	Chapter 6. Theoretical Calculations of Phase Diagrams and Self-assembly in Patchy Colloids. RSC Smart Materials, 2012, , 108-137.	0.1	2
131	How properties of interacting depletant particles control aggregation of hard-sphere colloids. Soft Matter, 2012, 8, 1991-1996.	1.2	24
132	Chemical and physical aggregation of small-functionality particles. Soft Matter, 2012, 8, 11207.	1.2	28
133	Patterning symmetry in the rational design of colloidal crystals. Nature Communications, 2012, 3, 975.	5.8	134
134	Phase diagram of trivalent and pentavalent patchy particles. Journal of Physics Condensed Matter, 2012, 24, 064113.	0.7	26
135	Chain dynamics in nonentangled polymer melts: A first-principle approach for the role of intramolecular barriers. Soft Matter, 2011, 7, 1364.	1.2	9
136	Cluster theory of Janus particles. Soft Matter, 2011, 7, 2419.	1.2	41
137	From caging to Rouse dynamics in polymer melts with intramolecular barriers: A critical test of the mode coupling theory. Journal of Chemical Physics, 2011, 134, 024523.	1.2	16
138	Re-entrant phase behaviour of network fluids: A patchy particle model with temperature-dependent valence. Journal of Chemical Physics, 2011, 135, 034501.	1.2	72
139	Cluster-Driven Dynamical Arrest in Concentrated Lysozyme Solutions. Journal of Physical Chemistry B, 2011, 115, 7227-7237.	1.2	108
140	Two dimensional assembly of triblock Janus particles into crystal phases in the two bond per patch limit. Soft Matter, 2011, 7, 5799.	1.2	106
141	Reversible gels of patchy particles. Current Opinion in Solid State and Materials Science, 2011, 15, 246-253.	5.6	106
142	Study of the ST2 model of water close to the liquidâ€“liquid critical point. Physical Chemistry Chemical Physics, 2011, 13, 19759.	1.3	117
143	Observation of empty liquids and equilibrium gels in a colloidal clay. Nature Materials, 2011, 10, 56-60.	13.3	307
144	Patchy from the bottom up. Nature Materials, 2011, 10, 171-173.	13.3	114

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145	Self and collective correlation functions in a gel of tetrahedral patchy particles. Molecular Physics, 2011, 109, 2889-2896.	0.8	22
146	Crystallization of tetrahedral patchy particles in silico. Journal of Chemical Physics, 2011, 134, 174502.	1.2	116
147	Quantitative investigation of the two-state picture for water in the normal liquid and the supercooled regime. European Physical Journal E, 2011, 34, 48.	0.7	55
148	Dynamical Behavior Near a Liquidâ€“Liquid Phase Transition in Simulations of Supercooled Water. Journal of Physical Chemistry B, 2011, 115, 14176-14183.	1.2	75
149	Silica through the eyes of colloidal modelsâ€”when glass is a gel. Journal of Physics Condensed Matter, 2011, 23, 285101.	0.7	7
150	The vibrational density of states of a disordered gel model. Journal of Chemical Physics, 2011, 135, 104502.	1.2	11
151	Nucleation barriers in tetrahedral liquids spanning glassy and crystallizing regimes. Journal of Chemical Physics, 2011, 135, 124506.	1.2	30
152	Reentrant Phase Diagram of Network Fluids. Physical Review Letters, 2011, 106, 085703.	2.9	104
153	No Evidence of Gas-Liquid Coexistence in Dipolar Hard Spheres. Physical Review Letters, 2011, 107, 237801.	2.9	88
154	Silicon in silico. Nature Physics, 2011, 7, 523-524.	6.5	14
155	Simulation and theory of a model for tetrahedral colloidal particles. Journal of Chemical Physics, 2011, 134, 194502.	1.2	20
156	Primitive models of patchy colloidal particles. A review. Collection of Czechoslovak Chemical Communications, 2010, 75, 349-358.	1.0	27
157	Effects of patch size and number within a simple model of patchy colloids. Journal of Chemical Physics, 2010, 132, 174110.	1.2	107
158	Theoretical Description of a DNA-Linked Nanoparticle Self-Assembly. Physical Review Letters, 2010, 105, 055502.	2.9	38
159	Phase diagram of a tetrahedral patchy particle model for different interaction ranges. Journal of Chemical Physics, 2010, 132, .	1.2	116
160	How do Self-Assembling Polymers and Gels Age Compared to Glasses?. Physical Review Letters, 2010, 104, 195701.	2.9	23
161	Interaction between like-charged polyelectrolyte-colloid complexes in electrolyte solutions: A Monte Carlo simulation study in the Debyeâ€“HÃ¼ckel approximation. Journal of Chemical Physics, 2010, 133, 024901.	1.2	25
162	Equilibrium self-assembly of colloids with distinct interaction sites: Thermodynamics, percolation, and cluster distribution functions. Journal of Chemical Physics, 2010, 132, 234502.	1.2	50

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163	Nanoflows through disordered media: A joint lattice Boltzmann and molecular dynamics investigation. Europhysics Letters, 2010, 89, 44001.	0.7	14
164	A spherical model with directional interactions: II. Dynamics and landscape properties. Journal of Physics Condensed Matter, 2010, 22, 104110.	0.7	5
165	Association of limited valence patchy particles in two dimensions. Journal of Physics Condensed Matter, 2010, 22, 104108.	0.7	20
166	Disconnected Glass-Glass Transitions and Diffusion Anomalies in a Model with Two Repulsive Length Scales. Physical Review Letters, 2010, 104, 145701.	2.9	26
167	A numerical study of one-patch colloidal particles: from square-well to Janus. Physical Chemistry Chemical Physics, 2010, 12, 11869.	1.3	123
168	Modeling the Crossover between Chemically and Diffusion-Controlled Irreversible Aggregation in a Small-Functionality Gel-Forming System. Journal of Physical Chemistry B, 2010, 114, 3769-3775.	1.2	26
169	Valency Dependence of Polymorphism and Polyamorphism in DNA-Functionalized Nanoparticles. Langmuir, 2010, 26, 3601-3608.	1.6	37
170	Association of limited valence patchy particles in two dimensions. Soft Matter, 2010, 6, 4229.	1.2	32
171	Phase Diagram of Janus Particles. Physical Review Letters, 2009, 103, 237801.	2.9	254
172	Reversible gels of patchy particles: Role of the valence. Journal of Chemical Physics, 2009, 131, 014504.	1.2	146
173	Identifying a causal link between structure and dynamics in supercooled water. Europhysics Letters, 2009, 88, 16003.	0.7	22
174	Vapor-liquid coexistence of fluids with attractive patches: An application of Wertheimâ€™s theory of association. Journal of Chemical Physics, 2009, 130, 044902.	1.2	31
175	Phase diagram and structural properties of a simple model for one-patch particles. Journal of Chemical Physics, 2009, 131, 174114.	1.2	42
176	Colloidal particle aggregates induced by particle surface charge heterogeneity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 343, 34-42.	2.3	24
177	Kinetic arrest in polyion-induced inhomogeneously charged colloidal particle aggregation. European Physical Journal E, 2009, 29, 229-237.	0.7	13
178	Evidence of a two-state picture for supercooled water and its connections with glassy dynamics. European Physical Journal E, 2009, 29, 305-310.	0.7	78
179	Role of the Range in the Fluidâ"Crystal Coexistence for a Patchy Particle Model. Journal of Physical Chemistry B, 2009, 113, 15133-15136.	1.2	47
180	Assembly Kinetics in Binary Mixtures of Strongly Attractive Colloids. Journal of Physical Chemistry B, 2009, 113, 6775-6781.	1.2	10

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181	Multiple Glass Transitions in Star Polymer Mixtures: Insights from Theory and Simulations. Macromolecules, 2009, 42, 423-434.	2.2	46
182	Connecting Irreversible to Reversible Aggregation: Time and Temperature. Journal of Physical Chemistry B, 2009, 113, 1233-1236.	1.2	37
183	A parameter-free description of the kinetics of formation of loop-less branched structures and gels. Soft Matter, 2009, , .	1.2	7
184	Colloidal systems with competing interactions: from an arrested repulsive cluster phase to a gel. Soft Matter, 2009, 5, 2390.	1.2	143
185	Gel-forming patchy colloids and network glass formers: thermodynamic and dynamic analogies. European Physical Journal B, 2008, 64, 505-509.	0.6	66
186	Gelation of particles with short-range attraction. Nature, 2008, 453, 499-503.	13.7	811
187	Asymmetric caging in soft colloidal mixtures. Nature Materials, 2008, 7, 780-784.	13.3	116
188	DNA Closed Nanostructures: A Structural and Monte Carlo Simulation Study. Journal of Physical Chemistry B, 2008, 112, 15283-15294.	1.2	23
189	Theoretical and numerical study of the phase diagram of patchy colloids: Ordered and disordered patch arrangements. Journal of Chemical Physics, 2008, 128, 144504.	1.2	150
190	A molecular dynamics study of chemical gelation in a patchy particle model. Soft Matter, 2008, 4, 1173.	1.2	42
191	Hierarchies of networked phases induced by multiple liquidâ€“liquid critical points. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13711-13715.	3.3	67
192	The vanishing limit of the square-well fluid: The adhesive hard-sphere model as a reference system. Journal of Chemical Physics, 2008, 128, 134513.	1.2	67
193	Theoretical and numerical estimates of the gas-liquid critical point of a primitive model for silica. Journal of Chemical Physics, 2008, 129, 224904.	1.2	6
194	Simulation of the dynamics of hard ellipsoids. Philosophical Magazine, 2008, 88, 4117-4123.	0.7	3
195	Growth of equilibrium polymers under non-equilibrium conditions. Journal of Physics Condensed Matter, 2008, 20, 155101.	0.7	29
196	Gelation as arrested phase separation in short-ranged attractive colloidâ€“polymer mixtures. Journal of Physics Condensed Matter, 2008, 20, 494242.	0.7	78
197	Numerical Investigation of Glassy Dynamics in Low-Density Systems. Physical Review Letters, 2008, 100, 195701.	2.9	27
198	Event-Driven Simulation of the Dynamics of Hard Ellipsoids. AIP Conference Proceedings, 2008, , .	0.3	0

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199	Interaction between charged colloids in a low dielectric constant solvent. Europhysics Letters, 2008, 81, 59901.	0.7	4
200	Viscoelasticity and Stokes-Einstein relation in repulsive and attractive colloidal glasses. Journal of Chemical Physics, 2007, 127, 144906.	1.2	37
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