Daan Frenkel

List of Publications by Year
in descending order

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530 papers	42,673 citations	1799 103 h-index	3579 181 g-index
544 all docs	544 docs citations	544 times ranked	20306 citing authors

#	Article	IF	Citations
1	Enhancement of Protein Crystal Nucleation by Critical Density Fluctuations. Science, 1997, 277, 1975-1978.	12.6	1,262
2	Understanding Molecular Simulation. Computers in Physics, 1997, 11, 351-354.	0.5	1,063
3	New Monte Carlo method to compute the free energy of arbitrary solids. Application to the fcc and hcp phases of hard spheres. Journal of Chemical Physics, 1984, 81, 3188-3193.	3.0	1,060
4	Configurational bias Monte Carlo: a new sampling scheme for flexible chains. Molecular Physics, 1992, 75, 59-70.	1.7	1,016
5	Prediction of absolute crystal-nucleation rate in hard-sphere colloids. Nature, 2001, 409, 1020-1023.	27.8	865
6	Tracing the phase boundaries of hard spherocylinders. Journal of Chemical Physics, 1997, 106, 666-687.	3.0	708
7	Numerical calculation of the rate of crystal nucleation in a Lennardâ€Jones system at moderate undercooling. Journal of Chemical Physics, 1996, 104, 9932-9947.	3.0	679
8	Monte Carlo study of the isotropic and nematic phases of infinitely thin hard platelets. Molecular Physics, 1984, 52, 1303-1334.	1.7	618
9	Numerical Evidence for bcc Ordering at the Surface of a Critical fcc Nucleus. Physical Review Letters, 1995, 75, 2714-2717.	7.8	463
10	The hard ellipsoid-of-revolution fluid. Molecular Physics, 1985, 55, 1171-1192.	1.7	457
11	Fluidâ€“fluid coexistence in colloidal systems with short-ranged strongly directional attraction. Journal of Chemical Physics, 2003, 118, 9882-9889.	3.0	452
12	Molecular Dynamics Simulations. , 2002, , 63-107.		441
13	Receptor-Mediated Endocytosis of Nanoparticles of Various Shapes. Nano Letters, 2011, 11, 5391-5395.	9.1	441
14	Computer simulation study of gasâ€“liquid nucleation in a Lennard-Jones system. Journal of Chemical Physics, 1998, 109, 9901-9918.	3.0	426
15	Monte Carlo Simulations. , 2002, , 23-61.		414
16	Determination of phase diagrams for the hardâ€core attractive Yukawa system. Journal of Chemical Physics, 1994, 101, 4093-4097.	3.0	410
17	Extended corresponding-states behavior for particles with variable range attractions. Journal of Chemical Physics, 2000, 113, 2941-2944.	3.0	404
18	Entropy difference between crystal phases. Nature, 1997, 388, 235-236.	27.8	396

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19	Novel scheme to study structural and thermal properties of continuously deformable molecules. Journal of Physics Condensed Matter, 1992, 4, 3053-3076.	1.8	384
20	Suppression of crystal nucleation in polydisperse colloids due to increase of the surface free energy. Nature, 2001, 413, 711-713.	27.8	370
21	Phase behavior of disklike hard-core mesogens. Physical Review A, 1992, 45, 5632-5648.	2.5	368
22	Computer simulation study of free energy barriers in crystal nucleation. Journal of Chemical Physics, 1992, 96, 4655-4668.	3.0	367
23	Onset of heterogeneous crystal nucleation in colloidal suspensions. Nature, 2004, 428, 404-406.	27.8	355
24	Thermodynamic stability of a smectic phase in a system of hard rods. Nature, 1988, 332, 822-823.	27.8	354
25	Entropy-driven formation of a superlattice in a hard-sphere binary mixture. Nature, 1993, 365, 35-37.	27.8	321
26	Accelerating Monte Carlo Sampling. , 2002, , 389-408.		316
27	Simulating rare events in equilibrium or nonequilibrium stochastic systems. Journal of Chemical Physics, 2006, 124, 024102.	3.0	314
28	Computer simulations in the Gibbs ensemble. Molecular Physics, 1989, 68, 931-950.	1.7	311
29	Numerical prediction of absolute crystallization rates in hard-sphere colloids. Journal of Chemical Physics, 2004, 120, 3015-3029.	3.0	303
30	Dissipative particle dynamics for interacting systems. Journal of Chemical Physics, 2001, 115, 5015-5026.	3.0	296
31	Phase Diagram of a System of Hard Ellipsoids. Physical Review Letters, 1984, 52, 287-290.	7.8	294
32	The Steady State of Heterogeneous Catalysis, Studied by First-Principles Statistical Mechanics. Physical Review Letters, 2004, 93, 116105.	7.8	289
33	Colloids dispersed in polymer solutions. A computer simulation study. Journal of Chemical Physics, 1994, 100, 6873-6887.	3.0	274
34	Does C60 have a liquid phase?. Nature, 1993, 365, 425-426.	27.8	273
35	Designing super selectivity in multivalent nano-particle binding. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10963-10968.	7.1	273
36	Evidence for one-, two-, and three-dimensional order in a system of hard parallel spherocylinders. Physical Review A, 1987, 36, 2929-2945.	2.5	244

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37	Evidence for algebraic orientational order in a two-dimensional hard-core nematic. Physical Review A, 1985, 31, 1776-1787.	2.5	241
38	Molecular dynamics studies of orientational and collisionâ€induced light scattering in molecular fluids. Journal of Chemical Physics, 1980, 72, 2801-2818.	3.0	229
39	Ab InitioMolecular Dynamics with Excited Electrons. Physical Review Letters, 1994, 73, 2599-2602.	7.8	227
40	Phase diagram of a system of hard spherocylinders by computer simulation. Physical Review A, 1990, 41, 3237-3244.	2.5	221
41	Melting line of Yukawa system by computer simulation. Journal of Chemical Physics, 1991, 94, 2269-2271.	3.0	220
42	Ab initioMolecular Dynamics Simulation of Laser Melting of Silicon. Physical Review Letters, 1996, 77, 3149-3152.	7.8	216
43	Phase behavior of two-dimensional hard rod fluids. Journal of Chemical Physics, 2000, 112, 10034-10041.	3.0	215
44	Hard Convex Body Fluids. Advances in Chemical Physics, 2007, , 1-166.	0.3	205
45	Order through entropy. Nature Materials, 2015, 14, 9-12.	27.5	205
46	Depletion effects in binary hard-sphere fluids. Journal of Physics Condensed Matter, 1996, 8, 10799-10821.	1.8	199
47	Finite-size corrections to the free energies of crystalline solids. Journal of Chemical Physics, 2000, 112, 5339-5342.	3.0	199
48	Homogeneous nucleation and the Ostwald step rule. Physical Chemistry Chemical Physics, 1999, 1, 2191-2196.	2.8	196
49	Structure of hard-core models for liquid crystals. The Journal of Physical Chemistry, 1988, 92, 3280-3284.	2.9	193
50	Direct simulation of phase equilibria of chain molecules. Journal of Physics Condensed Matter, 1992, 4, L255-L259.	1.8	190
51	Prediction of an expanded-to-condensed transition in colloidal crystals. Physical Review Letters, 1994, 72, 2211-2214.	7.8	185
52	Forward flux sampling-type schemes for simulating rare events: Efficiency analysis. Journal of Chemical Physics, 2006, 124, 194111.	3.0	183
53	Entropy-driven phase transitions. Physica A: Statistical Mechanics and Its Applications, 1999, 263, 26-38.	2.6	182
54	Surface-induced melting and freezing II. A semi-empirical Landau-type model. Surface Science, 1990, 239, 282-300.	1.9	179

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55	Calculation of the chemical potential in the Gibbs ensemble. Molecular Physics, 1989, 68, 951-958.	1.7	178
56	Self-consistent dissipative particle dynamics algorithm. Europhysics Letters, 1998, 42, 377-382.	2.0	167
57	Liquid network connectivity regulates the stability and composition of biomolecular condensates with many components. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13238-13247.	7.1	167
58	Numerical study of the phase behavior of rodlike colloids with attractive interactions. Journal of Chemical Physics, 1997, 107, 1551-1564.	3.0	164
59	Evidence for Smectic Order in a Fluid of Hard Parallel Spherocylinders. Physical Review Letters, 1986, 57, 1452-1455.	7.8	160
60	Computer simulation of hard-core models for liquid crystals. Molecular Physics, 1987, 60, 1-20.	1.7	158
61	Crucial role of nonspecific interactions in amyloid nucleation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17869-17874.	7.1	157
62	Isostructural solid-solid transition in crystalline systems with short-ranged interaction. Physical Review E, 1994, 50, 4880-4890.	2.1	155
63	Vaporâ€“liquid equilibria of the twoâ€dimensional Lennardâ€Jones fluid(s). Journal of Chemical Physics, 1991, 94, 5663-5668.	3.0	154
64	Phase separation in binary hardâ€core mixtures. Journal of Chemical Physics, 1994, 101, 3179-3189.	3.0	153
65	Polymer Crystallization Driven by Anisotropic Interactions. , 0, , 1-35.		149
66	Simulation of homogeneous crystal nucleation close to coexistence. Faraday Discussions, 1996, 104, 93.	3.2	148
67	Simulation of the adhesive-hard-sphere model. Molecular Physics, 1988, 64, 403-424.	1.7	147
68	Can stacking faults in hard-sphere crystals anneal out spontaneously?. Journal of Chemical Physics, 1999, 110, 4589-4592.	3.0	147
69	Rate of homogeneous crystal nucleation in molten NaCl. Journal of Chemical Physics, 2005, 122, 194501.	3.0	145
70	Line Tension Controls Wall-Induced Crystal Nucleation in Hard-Sphere Colloids. Physical Review Letters, 2003, 91, 015703.	7.8	144
71	QUANTITATIVE PREDICTION OF CRYSTAL-NUCLEATION RATES FOR SPHERICAL COLLOIDS: A Computational Approach. Annual Review of Physical Chemistry, 2004, 55, 333-361.	10.8	144
72	Computer simulation of solid-liquid coexistence in binary hard sphere mixtures. Molecular Physics, 1991, 72, 679-697.	1.7	143

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73	Nematicâ€“isotropic transition in polydisperse systems of infinitely thin hard platelets. Journal of Chemical Physics, 1999, 110, 6553-6559.	3.0	143
74	Light-induced actuating nanotransducers. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5503-5507.	7.1	143
75	Onsager's spherocylinders revisited. The Journal of Physical Chemistry, 1987, 91, 4912-4916.	2.9	142
76	Evidence for an Orientationally Ordered Two-Dimensional Fluid Phase from Molecular-Dynamics Calculations. Physical Review Letters, 1979, 42, 1632-1635.	7.8	139
77	Computer simulation of polymer-induced clustering of colloids. Physical Review Letters, 1991, 67, 1110-1113.	7.8	139
78	Monte Carlo Study of the Isotropic-Nematic Transition in a Fluid of Thin Hard Disks. Physical Review Letters, 1982, 49, 1089-1092.	7.8	138
79	Monte Carlo simulation of two-dimensional hard ellipses. Physical Review A, 1990, 42, 2126-2136.	2.5	137
80	Phase diagram of the adhesive hard sphere fluid. Journal of Chemical Physics, 2004, 121, 535.	3.0	137
81	Force Barriers for Membrane Tube Formation. Physical Review Letters, 2005, 94, 068101.	7.8	137
82	Chromatin Unfolding by Epigenetic Modifications Explained by Dramatic Impairment of Internucleosome Interactions: A Multiscale Computational Study. Journal of the American Chemical Society, 2015, 137, 10205-10215.	13.7	135
83	The Lennard-Jones potential: when (not) to use it. Physical Chemistry Chemical Physics, 2020, 22, 10624-10633.	2.8	133
84	Harvesting graphics power for MD simulations. Molecular Simulation, 2008, 34, 259-266.	2.0	131
85	Influence of polydispersity on the phase behavior of colloidal liquid crystals: A Monte Carlo simulation study. Journal of Chemical Physics, 1998, 109, 6193-6199.	3.0	130
86	Simulation of Shish-Kebab Crystallite Induced by a Single Prealigned Macromolecule. Macromolecules, 2002, 35, 7172-7174.	4.8	130
87	Competition of Percolation and Phase Separation in a Fluid of Adhesive Hard Spheres. Physical Review Letters, 2003, 90, 135702.	7.8	130
88	Structure factors of polydisperse systems of hard spheres: A comparison of Monte Carlo simulations and Percusâ€“Yevick theory. Journal of Chemical Physics, 1986, 84, 4625-4630.	3.0	127
89	Field-Induced Self-Assembly of Suspended Colloidal Membranes. Physical Review Letters, 2009, 103, 228301.	7.8	127
90	Evidence for entropy-driven demixing in hard-core fluids. Physical Review Letters, 1994, 72, 298-300.	7.8	121

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91	Living Clusters and Crystals from Low-Density Suspensions of Active Colloids. Physical Review Letters, 2013, 111, 245702.	7.8	121
92	Phase Transitions in Biological Systems with Many Components. Biophysical Journal, 2017, 112, 683-691.	0.5	121
93	The hard ellipsoid-of-revolution fluid. Molecular Physics, 1985, 55, 1193-1215.	1.7	120
94	Calculation of the melting point of NaCl by molecular simulation. Journal of Chemical Physics, 2003, 118, 728-735.	3.0	119
95	Modeling the Phase Diagram of Carbon. Physical Review Letters, 2005, 94, 145701.	7.8	119
96	Phase diagram of Hertzian spheres. Journal of Chemical Physics, 2009, 131, 044514.	3.0	119
97	Numerical study of the phase diagram of a mixture of spherical and rodlike colloids. Journal of Chemical Physics, 1994, 101, 9869-9875.	3.0	118
98	Quasibinary amorphous phase in a three-dimensional system of particles with repulsive-shoulder interactions. Journal of Chemical Physics, 2008, 129, 064512.	3.0	116
99	Computer Simulations of Freezing and Supercooled Liquids. Annual Review of Physical Chemistry, 1980, 31, 491-521.	10.8	115
100	Role of long-range interactions in the melting of a metallic surface. Physical Review B, 1989, 40, 1353-1356.	3.2	115
101	Intramolecular Nucleation Model for Polymer Crystallization. Macromolecules, 2003, 36, 8178-8183.	4.8	113
102	Simulations: The dark side. European Physical Journal Plus, 2013, 128, 1.	2.6	113
103	Molecular dynamics simulation using hard particles. Computer Physics Reports, 1989, 9, 301-353.	2.2	112
104	Partial enthalpies and related quantities in mixtures from computer simulation. Chemical Physics Letters, 1987, 136, 35-41.	2.6	111
105	Molecular dynamics study of the dynamical properties of an assembly of infinitely thin hard rods. Molecular Physics, 1983, 49, 503-541.	1.7	110
106	The crucial effect of early-stage gelation on the mechanical properties of cement hydrates. Nature Communications, 2016, 7, 12106.	12.8	109
107	Phase separation in binary hard-core mixtures: An exact result. Physical Review Letters, 1992, 68, 3363-3365.	7.8	108
108	An enhanced version of the heat exchange algorithm with excellent energy conservation properties. Journal of Chemical Physics, 2015, 143, 124104.	3.0	108

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109	Effect of Nutrient Diffusion and Flow on Coral Morphology. Physical Review Letters, 1996, 77, 2328-2331.	7.8	107
110	Enhanced stability of layered phases in parallel hard spherocylinders due to addition of hard spheres. Physical Review E, 2000, 62, 3925-3933.	2.1	107
111	Spatiotemporal control and superselectivity in supramolecular polymers using multivalency. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12203-12208.	7.1	106
112	Re-entrant melting as a design principle for DNA-coated colloids. Nature Materials, 2012, 11, 518-522.	27.5	104
113	Designing multivalent probes for tunable superselective targeting. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5579-5584.	7.1	104
114	Computing stationary distributions in equilibrium and nonequilibrium systems with forward flux sampling. Journal of Chemical Physics, 2007, 127, 114109.	3.0	102
115	The stability of the AB 13 crystal in a binary hard sphere system. Molecular Physics, 1993, 79, 105-120.	1.7	101
116	Invited Lecture. Columnar ordering as an excluded-volume effect. Liquid Crystals, 1989, 5, 929-940.	2.2	100
117	Crystal Nucleation of Colloidal Suspensions under Shear. Physical Review Letters, 2004, 93, 068303.	7.8	99
118	Waterlike thermodynamic anomalies in a repulsive-shoulder potential system. Physical Review E, 2009, 79, 051202.	2.1	99
119	On the anisotropy of diffusion in nematic liquid crystals: test of a modified affine transformation model via molecular dynamics. Molecular Physics, 1991, 74, 765-774.	1.7	98
120	Dislocation Unbinding in Dense Two-Dimensional Crystals. Physical Review Letters, 1995, 74, 2519-2522.	7.8	98
121	Evidence for Out-of-Equilibrium Crystal Nucleation in Suspensions of Oppositely Charged Colloids. Physical Review Letters, 2007, 99, 055501.	7.8	97
122	Rational design of self-assembly pathways for complex multicomponent structures. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6313-6318.	7.1	97
123	COLLOIDAL SYSTEMS: Playing Tricks with Designer "Atoms". Science, 2002, 296, 65-66.	12.6	96
124	A general theory of DNA-mediated and other valence-limited colloidal interactions. Journal of Chemical Physics, 2012, 137, 094108.	3.0	96
125	Nonperiodic solid phase in a two-dimensional hard-dimer system. Physical Review Letters, 1991, 66, 3168-3171.	7.8	95
126	Simulation study of the isotropic-to-nematic transitions of semiflexible polymers. Physical Review E, 1995, 51, 5891-5898.	2.1	95

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127	Intrinsic disorder modulates protein self-assembly and aggregation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6951-6956.	7.1	95
128	Calculation of liquid-crystal Frank constants by computer simulation. Physical Review A, 1988, 37, 1813-1816.	2.5	92
129	Speed-up of Monte Carlo simulations by sampling of rejected states. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17571-17575.	7.1	92
130	Superselective Targeting Using Multivalent Polymers. Journal of the American Chemical Society, 2014, 136, 1722-1725.	13.7	92
131	Relative stability of columnar and crystalline phases in a system of parallel hard spherocylinders. Physical Review A, 1991, 43, 4334-4343.	2.5	91
132	Numerical calculation of the rate of homogeneous gasâ€“liquid nucleation in a Lennard-Jones system. Journal of Chemical Physics, 1999, 110, 1591-1599.	3.0	91
133	Discrete solution of the electrokinetic equations. Journal of Chemical Physics, 2004, 121, 973-986.	3.0	91
134	Structural, dynamical, electronic, and bonding properties of laser-heated silicon: Anab initiomolecular-dynamics study. Physical Review B, 1997, 56, 3806-3812.	3.2	90
135	Physical determinants of the self-replication of protein fibrils. Nature Physics, 2016, 12, 874-880.	16.7	90
136	Crystallization of weakly charged colloidal spheres: a numerical study. Journal of Physics Condensed Matter, 2002, 14, 7667-7680.	1.8	89
137	Numerical Simulation of Crystal Nucleation in Colloids. Advances in Polymer Science, 0, , 149-208.	0.8	87
138	Homogeneous Bubble Nucleation Driven by Local Hot Spots: A Molecular Dynamics Study. Journal of Physical Chemistry B, 2009, 113, 3776-3784.	2.6	86
139	A parameter-free, solid-angle based, nearest-neighbor algorithm. Journal of Chemical Physics, 2012, 136, 234107.	3.0	86
140	Soft condensed matter. Physica A: Statistical Mechanics and Its Applications, 2002, 313, 1-31.	2.6	84
141	Gibbs, Boltzmann, and negative temperatures. American Journal of Physics, 2015, 83, 163-170.	0.7	83
142	Simulation of diffusion in a two-dimensional lattice-gas cellular automaton: A test of mode-coupling theory. Physical Review Letters, 1989, 63, 2165-2168.	7.8	82
143	Unexpected length dependence of the solubility of chain molecules. Molecular Physics, 1992, 75, 983-988.	1.7	82
144	Two-step vapor-crystal nucleation close below triple point. Journal of Chemical Physics, 2008, 129, 204505.	3.0	82

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145	Simulation of nucleation in almost hard-sphere colloids: The discrepancy between experiment and simulation persists. Journal of Chemical Physics, 2011, 134, 134901.	3.0	82
146	Numerical Evidence for Nucleated Self-Assembly of DNA Brick Structures. Physical Review Letters, 2014, 112, 238103.	7.8	82
147	The effect of chain stiffness on the phase behaviour of isolated homopolymers. Journal of Chemical Physics, 1998, 108, 2134-2142.	3.0	81
148	Algebraic Decay of Velocity Fluctuations in a Confined Fluid. Physical Review Letters, 1997, 78, 3785-3788.	7.8	80
149	The role of long-range forces in the phase behavior of colloids and proteins. Europhysics Letters, 1999, 48, 332-338.	2.0	80
150	Monte Carlo study of hard pentagons. Physical Review E, 2005, 71, 036138.	2.1	80
151	Free energy changes on freezing and melting ductile metals. Molecular Physics, 1993, 80, 801-814.	1.7	79
152	Transverse interlayer order in lyotropic smectic liquid crystals. Physical Review E, 1995, 52, R1277-R1280.	2.1	79
153	Location of melting point at 300 K of nitrogen by Monte Carlo simulation. Journal of Chemical Physics, 1990, 92, 7570-7575.	3.0	75
154	Recent advances in the modelling and simulation of electrokinetic effects: bridging the gap between atomistic and macroscopic descriptions. Physical Chemistry Chemical Physics, 2010, 12, 9566.	2.8	75
155	Numerical study of DNA-functionalized microparticles and nanoparticles: Explicit pair potentials and their implications for phase behavior. Journal of Chemical Physics, 2011, 134, 084702.	3.0	75
156	Mobile Linkers on DNA-Coated Colloids: Valency without Patches. Physical Review Letters, 2014, 113, 128303.	7.8	75
157	Liquid-crystalline ordering of antimicrobial peptideâ€“DNA complexes controls TLR9 activation. Nature Materials, 2015, 14, 696-700.	27.5	75
158	Protein Shape and Crowding Drive Domain Formation and Curvature in Biological Membranes. Biophysical Journal, 2008, 94, 640-647.	0.5	74
159	Design Rule for Colloidal Crystals of DNA-Functionalized Particles. Physical Review Letters, 2011, 107, 045902.	7.8	74
160	Kinetics of spontaneous filament nucleation via oligomers: Insights from theory and simulation. Journal of Chemical Physics, 2016, 145, 211926.	3.0	73
161	Self-Assembly of Structures with Addressable Complexity. Journal of the American Chemical Society, 2016, 138, 2457-2467.	13.7	73
162	Computational methodology for solubility prediction: Application to the sparingly soluble solutes. Journal of Chemical Physics, 2017, 146, 214110.	3.0	71

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163	Optimal multivalent targeting of membranes with many distinct receptors. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7210-7215.	7.1	71
164	Elastic constants of hard-sphere crystals. Physical Review Letters, 1987, 59, 1169-1169.	7.8	70
165	Pore nucleation in mechanically stretched bilayer membranes. Journal of Chemical Physics, 2005, 123, 154701.	3.0	68
166	Molecular simulations of droplet coalescence in oil/water/surfactant systems. Journal of Chemical Physics, 2007, 127, 134701.	3.0	68
167	Numerical Calculation of Granular Entropy. Physical Review Letters, 2014, 112, 098002.	7.8	68
168	Modeling flexible amphiphilic bilayers: A solvent-free off-lattice Monte Carlo study. Journal of Chemical Physics, 2005, 122, 234711.	3.0	67
169	Observation of dynamical precursors of the isotropic-nematic transition by computer simulation. Physical Review Letters, 1987, 58, 1748-1750.	7.8	66
170	A Simple Lattice Model That Captures Protein Folding, Aggregation and Amyloid Formation. PLoS ONE, 2014, 9, e85185.	2.5	66
171	Calculation of partial enthalpies of an argon-krypton mixture by NPT molecular dynamics. Chemical Physics, 1989, 129, 213-224.	1.9	65
172	Demixing in hard ellipsoid rod-plate mixtures. Journal of Chemical Physics, 1997, 106, 9270-9275.	3.0	65
173	Kinetic Monte Carlo simulations of the growth of polymer crystals. Journal of Chemical Physics, 1999, 110, 2692-2702.	3.0	65
174	Phase Behavior and Selectivity of DNA-Linked Nanoparticle Assemblies. Physical Review Letters, 2004, 92, 068302.	7.8	65
175	Efficient schemes to compute diffusive barrier crossing rates. Molecular Physics, 1997, 90, 925-942.	1.7	64
176	Phase Coexistence of Cluster Crystals: Beyond the Gibbs Phase Rule. Physical Review Letters, 2007, 99, 235702.	7.8	63
177	Connecting Macroscopic Observables and Microscopic Assembly Events in Amyloid Formation Using Coarse Grained Simulations. PLoS Computational Biology, 2012, 8, e1002692.	3.2	63
178	Longâ€time tails in angular momentum correlations. Journal of Chemical Physics, 1995, 103, 1582-1587.	3.0	62
179	Do Hydrodynamic Dispersion Coefficients Exist?. Physical Review Letters, 1996, 77, 4552-4555.	7.8	62
180	Relation between Molecular Shape and the Morphology of Self-Assembling Aggregates: A Simulation Study. Biophysical Journal, 2011, 101, 1432-1439.	0.5	62

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181	Long-time tails of the velocity autocorrelation function in two- and three-dimensional lattice-gas cellular automata: A test of mode-coupling theory. Physical Review A, 1990, 41, 4277-4284.	2.5	61
182	A computer simulation investigation into the stability of theAB2superlattice in a binary hard sphere system. Molecular Physics, 1993, 80, 987-995.	1.7	61
183	Infinitely thin disks exhibit a first order nematic-columnar phase transition. Physical Review E, 1998, 57, 4824-4826.	2.1	61
184	Multiple occupancy crystals formed by purely repulsive soft particles. Journal of Physics Condensed Matter, 2008, 20, 494245.	1.8	61
185	Application of lattice-gas cellular automata to the Brownian motion of solids in suspension. Physical Review Letters, 1988, 60, 975-978.	7.8	60
186	Coil-Globule Transition in Gas-Liquid Nucleation of Polar Fluids. Physical Review Letters, 1998, 81, 3695-3698.	7.8	60
187	Do cylinders exhibit a cubatic phase?. Journal of Chemical Physics, 1999, 110, 11652-11659.	3.0	59
188	Stretching the Frontiers: Exploring the Relationships Between Entrepreneurship and Ethics. Journal of Business Ethics, 2005, 60, 207-209.	6.0	59
189	Homogeneous nucleation under shear in a two-dimensional Ising model: Cluster growth, coalescence, and breakup. Journal of Chemical Physics, 2008, 129, 134704.	3.0	59
190	State-of-the-art models for the phase diagram of carbon and diamond nucleation. Molecular Physics, 2008, 106, 2011-2038.	1.7	58
191	Large Difference in the Elastic Properties of fcc and hcp Hard-Sphere Crystals. Physical Review Letters, 2003, 90, 255501.	7.8	57
192	Confinement free energy of semiflexible polymers. Physica A: Statistical Mechanics and Its Applications, 1993, 193, 374-393.	2.6	56
193	First-order nematic-smectic phase transition for hard spherocylinders in the limit of infinite aspect ratio. Physical Review E, 1997, 56, R6260-R6263.	2.1	56
194	Thermodynamics and kinetics of phase separation of protein-RNA mixtures by a minimal model. Biophysical Journal, 2021, 120, 1219-1230.	0.5	56
195	Isostructural solid - solid transitions in systems with a repulsive `shoulder' potential. Journal of Physics Condensed Matter, 1997, 9, 381-387.	1.8	55
196	Intracellular Release of Endocytosed Nanoparticles Upon a Change of Ligandâ€“Receptor Interaction. ACS Nano, 2012, 6, 10598-10605.	14.6	55
197	Theory and simulation of DNA-coated colloids: a guide for rational design. Physical Chemistry Chemical Physics, 2016, 18, 6373-6393.	2.8	55
198	Virtual-Move Parallel Tempering. ChemPhysChem, 2005, 6, 1779-1783.	2.1	54

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199	Disordered Flanks Prevent Peptide Aggregation. PLoS Computational Biology, 2008, 4, e1000241.	3.2	54
200	Discotic liquid crystals Physical parameters of some 2,3,7,8,12,13-hexa(alkanoyloxy)truxenes. Observation of a re-entrant isotropic phase in a pure disc-like mesogen. Liquid Crystals, 1988, 3, 1087-1104.	2.2	53
201	Evidence for faster-than-tâ^'1decay of the velocity autocorrelation function in a 2D fluid. Physical Review Letters, 1991, 66, 1591-1594.	7.8	53
202	Crystallization of a polymer on a surface. Journal of Chemical Physics, 1998, 109, 10033-10041.	3.0	53
203	Molecular Simulation of Thermo-osmotic Slip. Physical Review Letters, 2017, 119, 038002.	7.8	53
204	Recoil growth: An efficient simulation method for multi-polymer systems. Journal of Chemical Physics, 1999, 110, 3220-3228.	3.0	52
205	Self-Poisoning of Crystal Nuclei in Hard-Rod Liquids. Physical Review Letters, 2004, 92, 085505.	7.8	52
206	Simulating colloids with BaxterÂs adhesive hard sphere model. Journal of Physics Condensed Matter, 2004, 16, S4901-S4912.	1.8	52
207	Communication: A simple analytical formula for the free energy of ligandâ€“receptor-mediated interactions. Journal of Chemical Physics, 2013, 138, 021102.	3.0	52
208	A Monte Carlo simulation study of the twoâ€dimensional melting mechanism. Journal of Chemical Physics, 1983, 78, 4206-4222.	3.0	51
209	Finite-size corrections to the chemical potential. Journal of Physics Condensed Matter, 1992, 4, 679-691.	1.8	51
210	The super long-time decay of velocity fluctuations in a two-dimensional fluid. Physica A: Statistical Mechanics and Its Applications, 1995, 220, 251-260.	2.6	50
211	Numerical prediction of the melting curve ofn-octane. Journal of Chemical Physics, 1999, 111, 1501-1510.	3.0	50
212	Ab initio calculation of the sound velocity of dense hydrogen: implications for models of Jupiter. Science, 1995, 269, 1252-1254.	12.6	49
213	Coarse-grained simulations of charge, current and flow in heterogeneous media. Faraday Discussions, 2010, 144, 223-243.	3.2	49
214	Structure of the hard ellipsoid fluid. Journal of Chemical Physics, 1990, 92, 3048-3057.	3.0	48
215	Non-Ideal DPD Fluids. Molecular Simulation, 2000, 25, 167-175.	2.0	48
216	Breakdown of Classical Nucleation Theory near Isostructural Phase Transitions. Physical Review Letters, 2004, 93, 166105.	7.8	48

#	Article	IF	Citations
217	Design Principles for Broad-Spectrum Protein-Crystal Nucleants with Nanoscale Pits. Physical Review Letters, 2010, 105, 205501.	7.8	48
218	Turning intractable counting into sampling: Computing the configurational entropy of three-dimensional jammed packings. Physical Review E, 2016, 93, 012906.	2.1	48
219	Thermodynamic properties of binary hard sphere mixtures. Molecular Physics, 1991, 72, 715-733.	1.7	47
220	Calculation of solid-fluid phase equilibria for systems of chain molecules. Journal of Chemical Physics, 1998, 109, 318-328.	3.0	47
221	Lattice-Boltzmann method for the simulation of transport phenomena in charged colloids. Physical Review E, 2001, 64, 061507.	2.1	47
222	Unexpected relaxation dynamics of a self-avoiding polymer in cylindrical confinement. Journal of Chemical Physics, 2007, 127, 164903.	3.0	47
223	Quantitative Prediction of the Phase Diagram of DNA-Functionalized Nanosized Colloids. Physical Review Letters, 2012, 108, 268301.	7.8	47
224	Stability of the high-pressure body-centered-cubic phase of helium. Physical Review Letters, 1986, 56, 858-860.	7.8	46
225	Mechanism of Thickness Determination in Polymer Crystals. Physical Review Letters, 1998, 81, 2160-2163.	7.8	46
226	Short-time dynamics of colloidal suspensions in confined geometries. Physical Review E, 1999, 59, 4458-4469.	2.1	46
227	Chain formation in homogeneous gasâ€“liquid nucleation of polar fluids. Journal of Chemical Physics, 1999, 111, 4762-4773.	3.0	46
228	Phase Transitions of Bulk Statistical Copolymers Studied by Dynamic Monte Carlo Simulations. Macromolecules, 2003, 36, 2165-2175.	4.8	46
229	Predicting phase behavior in multicomponent mixtures. Journal of Chemical Physics, 2013, 139, 024108.	3.0	46
230	A unified description of colloidal thermophoresis. European Physical Journal E, 2018, 41, 7.	1.6	46
231	Monte Carlo simulations of a two-dimensional hard dimer system. Physica A: Statistical Mechanics and Its Applications, 1993, 196, 519-545.	2.6	45
232	MATERIALS SCIENCE: Colloidal Encounters: A Matter of Attraction. Science, 2006, 314, 768-769.	12.6	45
233	Geometrical frustration: A study of four-dimensional hard spheres. Physical Review E, 2009, 79, 030201.	2.1	45
234	Quantitative analysis of co-oligomer formation by amyloid-beta peptide isoforms. Scientific Reports, 2016, 6, 28658.	3.3	45

#	Article	IF	Citations
235	Computer simulation of solid-liquid coexistence in binary hard-sphere mixtures. Journal of Physics Condensed Matter, 1989, 1, 7735-7739.	1.8	44
236	Influence of vacancies on the melting transition of hard disks in two dimensions. Physical Review E, 2000, 61, 5223-5227.	2.1	44
237	Melting of polydisperse hard disks. Physical Review E, 2004, 69, 066123.	2.1	44
238	Direct Determination of the Size of Basins of Attraction of Jammed Solids. Physical Review Letters, 2011, 106, 245502.	7.8	44
239	Effect of Inert Tails on the Thermodynamics of DNA Hybridization. Journal of the American Chemical Society, 2014, 136, 6538-6541.	13.7	44
240	Rational design of molecularly imprinted polymers. Soft Matter, 2016, 12, 35-44.	2.7	44
241	Point Defects in Hard-Sphere Crystalsâ€. Journal of Physical Chemistry B, 2001, 105, 6722-6727.	2.6	42
242	Solidâ€“liquid interfacial free energy of small colloidal hard-sphere crystals. Journal of Chemical Physics, 2003, 119, 7467-7470.	3.0	42
243	Controlling the temperature sensitivity of DNA-mediated colloidal interactions through competing linkages. Soft Matter, 2012, 8, 2213.	2.7	42
244	Molecular Dynamics Study of Infinitely Thin Hard Rods: Scaling Behavior of Transport Properties. Physical Review Letters, 1981, 47, 1025-1028.	7.8	41
245	Vapour-liquid equilibria of the hard core Yukawa fluid. Molecular Physics, 1991, 74, 35-39.	1.7	41
246	Phase behavior of colloid plus polydisperse polymer mixtures. Physical Review E, 1997, 55, 1677-1681.	2.1	41
247	Local Structure of Liquid Carbon Controls Diamond Nucleation. Physical Review Letters, 2007, 99, 055702.	7.8	41
248	Simulation study of micelle formation by bile salts. Soft Matter, 2010, 6, 3815.	2.7	41
249	Designed to yield. Nature Materials, 2011, 10, 410-411.	27.5	41
250	Why colloidal systems can be described by statistical mechanics: some not very original comments on the Gibbs paradox. Molecular Physics, 2014, 112, 2325-2329.	1.7	41
251	Multivalent Recognition at Fluid Surfaces: The Interplay of Receptor Clustering and Superselectivity. Journal of the American Chemical Society, 2019, 141, 2577-2588.	13.7	41
252	Lattice-model study of the thermodynamic interplay of polymer crystallization and liquidâ€“liquid demixing. Journal of Chemical Physics, 2003, 118, 10343-10348.	3.0	40

#	Article	IF	Citations
253	Elastic constants of hard and soft nematic liquid crystals. The Journal of Physical Chemistry, 1992, 96, 3942-3948.	2.9	39
254	Recoil growth algorithm for chain molecules with continuous interactions. Molecular Physics, 1999, 97, 1243-1254.	1.7	39
255	Accounting for adsorption and desorption in lattice Boltzmann simulations. Physical Review E, 2013, 88, 013308.	2.1	39
256	Determination of potential energy surfaces for Arâ€“HCl and Krâ€“HCl from rotational linebroadening data. Journal of Chemical Physics, 1978, 69, 4606-4616.	3.0	38
257	Objections to Handelâ€™s quantum theory of1/fnoise. Physical Review A, 1987, 35, 2750-2753.	2.5	38
258	Simulation of colloidal crystallization on finite structured templates. Physical Review E, 2005, 72, 041604.	2.1	38
259	Quantifying Co-Oligomer Formation by Î±-Synuclein. ACS Nano, 2018, 12, 10855-10866.	14.6	38
260	An explicit expression for finite-size corrections to the chemical potential. Journal of Physics Condensed Matter, 1989, 1, 8659-8665.	1.8	37
261	Calculation of ion scattering yields from simulated crystal surfaces: theory and application to melting and non-melting Al surfaces. Surface Science, 1991, 256, 385-396.	1.9	37
262	The hard ellipsoid-of-revolution fluid I. Monte Carlo simulations. Molecular Physics, 2002, 100, 201-217.	1.7	37
263	Designing refoldable model molecules. Physical Review E, 2003, 68, 046703.	2.1	37
264	Nanoparticle Organization in Sandwiched Polymer Brushes. Nano Letters, 2014, 14, 2617-2622.	9.1	37
265	Spiers Memorial Lecture: Effect of interaction specificity on the phase behaviour of patchy particles. Faraday Discussions, 2012, 159, 9.	3.2	36
266	Visualizing Basins of Attraction for Different Minimization Algorithms. Journal of Physical Chemistry B, 2013, 117, 12717-12723.	2.6	36
267	Phase Diagram of Hard Ellipsoids of Revolution. Molecular Crystals and Liquid Crystals, 1985, 123, 119-128.	0.8	35
268	Grandâ€canonical simulations of solvated ideal fermions. Evidence for phase separation. Journal of Chemical Physics, 1992, 97, 9249-9257.	3.0	35
269	Sectorization of a Lamellar Polymer Crystal Studied by Dynamic Monte Carlo Simulations. Macromolecules, 2003, 36, 549-552.	4.8	35
270	Seeds of phase change. Nature, 2006, 443, 641-641.	27.8	35

#	Article	IF	Citations
271	Measurements of the ratio of the Frank constants for splay and bend in nematics of disc-like molecules. Journal De Physique, 1987, 48, 319-324.	1.8	35
272	Self-diffusion of colloidal particles in a two-dimensional suspension: Are deviations from Fickâ€™s law experimentally observable?. Physical Review Letters, 1991, 67, 3459-3462.	7.8	34
273	Free energy calculations for solid solutions by computer simulations. Molecular Physics, 1991, 72, 699-713.	1.7	34
274	Algebraic decay of velocity fluctuations near a wall. Physical Review E, 1998, 58, 7288-7295.	2.1	34
275	Rotational diffusion in dense suspensions. Physica A: Statistical Mechanics and Its Applications, 1999, 272, 376-391.	2.6	34
276	Effect of Metastable Liquidâ^'Liquid Demixing on the Morphology of Nucleated Polymer Crystals. Macromolecules, 2004, 37, 4336-4338.	4.8	34
277	Communication: Theoretical prediction of free-energy landscapes for complex self-assembly. Journal of Chemical Physics, 2015, 142, 021101.	3.0	34
278	Numerical test of the Edwards conjecture shows that all packings are equally probable at jamming. Nature Physics, 2017, 13, 848-851.	16.7	34
279	Non-linear density dependence of rotational line-broadening of HCl in dense argon. Chemical Physics Letters, 1976, 40, 9-13.	2.6	32
280	Numerical study of gasâ€“liquid nucleation in partially miscible binary mixtures. Journal of Chemical Physics, 1998, 109, 9919-9927.	3.0	32
281	Anisotropic density fluctuations in argon at different densities: Far infrared measurements and molecular dynamic calculations. Journal of Chemical Physics, 1999, 67, 4243.	3.0	32
282	The mechanism of thickness selection in the Sadler-Gilmer model of polymer crystallization. Journal of Chemical Physics, 1999, 110, 7073-7086.	3.0	32
283	Free energy barrier to melting of single-chain polymer crystallite. Journal of Chemical Physics, 2003, 118, 3455-3457.	3.0	32
284	High-pressure diamondlike liquid carbon. Physical Review B, 2004, 69, .	3.2	32
285	Surface and bulk dissolution properties, and selectivity of DNA-linked nanoparticle assemblies. Journal of Chemical Physics, 2005, 122, 214904.	3.0	32
286	Monte Carlo Sampling of a Markov Web. Journal of Chemical Theory and Computation, 2005, 1, 389-393.	5.3	32
287	Irreducible Finite-Size Effects in the Surface Free Energy of NaCl Crystals from Crystal-Nucleation Data. Physical Review Letters, 2008, 100, 036103.	7.8	32
288	Velocity auto-correlation functions in a 2d lattice Lorentz gas: Comparison of theory and computer simulation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 121, 385-389.	2.1	31

#	Article	IF	Citations
289	The simulation of entropic phase transitions. Journal of Physics Condensed Matter, 1994, 6, A71-A78.	1.8	31
290	Solid-solid and liquid-solid phase equilibria for the restricted primitive model. Molecular Physics, 1996, 87, 159-166.	1.7	31
291	Phase behavior of model mixtures of colloidal disks and polymers. Physical Review E, 2000, 62, 5225-5229.	2.1	31
292	Cubatic phase for tetrapods. Journal of Chemical Physics, 2004, 120, 5486-5492.	3.0	31
293	Monte Carlo study of rod-like molecules. Molecular Physics, 1989, 67, 633-650.	1.7	30
294	Novel scheme to compute chemical potentials of chain molecules on a lattice. Molecular Physics, 1991, 74, 41-47.	1.7	30
295	A finite-cluster phase in Î»-DNA-coated colloids. Soft Matter, 2007, 3, 703-706.	2.7	30
296	Predicting DNA-mediated colloidal pair interactions. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E378-9; author reply E380.	7.1	30
297	Breakdown of the law of rectilinear diameter and related surprises in the liquid-vapor coexistence in systems of patchy particles. Journal of Chemical Physics, 2019, 150, 224510.	3.0	30
298	Homogeneous nucleation of colloidal melts under the influence of shearing fields. Journal of Physics Condensed Matter, 2004, 16, S3873-S3884.	1.8	29
299	Designing ordered DNA-linked nanoparticle assemblies. Journal of Physics Condensed Matter, 2006, 18, S567-S580.	1.8	29
300	Phase separation in solutions with specific and nonspecific interactions. Journal of Chemical Physics, 2014, 140, 204109.	3.0	29
301	Consistent Treatment of Hydrophobicity in Protein Lattice Models Accounts for Cold Denaturation. Physical Review Letters, 2016, 116, 078101.	7.8	29
302	Orientational order and solid-liquid coexistence in the two-dimensional Lennard-Jones system. Physical Review B, 1987, 35, 6933-6939.	3.2	28
303	Order through disorder: entropy strikes back. Physics World, 1993, 6, 24-25.	0.0	28
304	Simulation study of a two-dimensional system of semiflexible polymers. Physical Review E, 1994, 50, 349-357.	2.1	28
305	Nonmetal-metal transition in metalâ€“molten-salt solutions. Physical Review B, 1996, 53, 12750-12760.	3.2	28
306	Optimal packing of polydisperse hard-sphere fluids. Journal of Chemical Physics, 1999, 110, 5318-5324.	3.0	28

#	Article	IF	Citations
307	Large effect of polydispersity on defect concentrations in colloidal crystals. Journal of Chemical Physics, 2004, 120, 6764-6768.	3.0	28
308	Oriented primary crystal nucleation in lamellar diblock copolymer systems. Faraday Discussions, 2005, 128, 253.	3.2	28
309	Gas-solid coexistence of adhesive spheres. Journal of Chemical Physics, 2007, 126, 196101.	3.0	28
310	Dispersion of charged tracers in charged porous media. Europhysics Letters, 2008, 83, 34004.	2.0	28
311	Lattice simulation method to model diffusion and NMR spectra in porous materials. Journal of Chemical Physics, 2015, 142, 094701.	3.0	28
312	Observation of a re-entrant isotropic phase in a pure disc-like liquid crystal. Liquid Crystals, 1988, 3, 149-152.	2.2	27
313	Heterogeneous versus homogeneous crystal nucleation of hard spheres. Soft Matter, 2019, 15, 9625-9631.	2.7	27
314	A far infrared study of the Arâ€“HCl van der Waals molecule. Journal of Chemical Physics, 1977, 66, 1826-1829.	3.0	26
315	Microscopic and mesoscopic simulation of entropic micelles. Physica A: Statistical Mechanics and Its Applications, 1997, 244, 45-58.	2.6	26
316	Out-of-equilibrium processes in suspensions of oppositely charged colloids: liquid-to-crystal nucleation and gel formation. Journal of Physics Condensed Matter, 2008, 20, 494247.	1.8	26
317	Dissipative hydrodynamic interactions via latticeâ€gas cellular automata. Physics of Fluids A, Fluid Dynamics, 1990, 2, 1921-1924.	1.6	25
318	Computer simulation of colloid-polymer mixtures. Physica A: Statistical Mechanics and Its Applications, 1995, 213, 130-137.	2.6	25
319	Structural Arrest in an Ideal Gas. Physical Review Letters, 2005, 94, 135703.	7.8	25
320	Anomalous phase behavior of liquidâ€“vapor phase transition in binary mixtures of DNA-coated particles. Soft Matter, 2010, 6, 6136.	2.7	25
321	Running Faster Together: Huge Speed up of Thermal Ratchets due to Hydrodynamic Coupling. Physical Review Letters, 2012, 109, 168101.	7.8	25
322	Rotational Diffusion Model with a Variable Collision Distribution. Journal of Chemical Physics, 1972, 57, 2691-2697.	3.0	24
323	Tagged particle diffusion in 3d lattice gas cellular automata. Physica D: Nonlinear Phenomena, 1991, 47, 191-197.	2.8	24
324	Phase behavior and crystallization kinetics of poly-12-hydroxystearic-coated polymethylmethacrylate colloids. Physical Review E, 2003, 67, 020401.	2.1	24

#	Article	IF	Citations
325	Designing specificity of protein-substrate interactions. Physical Review E, 2004, 70, 051917.	2.1	24
326	Monte Carlo Study of Substrate-Induced Folding and Refolding of Lattice Proteins. Biophysical Journal, 2007, 92, 1150-1156.	0.5	24
327	DNA brick self-assembly with an off-lattice potential. Soft Matter, 2016, 12, 6253-6260.	2.7	24
328	Smectic filaments in colloidal suspensions of rods. Physical Review E, 2002, 66, 041606.	2.1	23
329	Procedure to construct a multi-scale coarse-grained model of DNA-coated colloids from experimental data. Soft Matter, 2013, 9, 7342.	2.7	23
330	Computational methodology for solubility prediction: Application to sparingly soluble organic/inorganic materials. Journal of Chemical Physics, 2018, 149, 054102.	3.0	23
331	Constant-Pressure Monte Carlo Simulations for Lattice Models. Europhysics Letters, 1994, 27, 549-554.	2.0	21
332	The overlapping distribution method to compute chemical potentials of chain molecules. Journal of Physics Condensed Matter, 1994, 6, 3879-3888.	1.8	21
333	Lattice-Boltzmann simulation of the sedimentation of charged disks. Journal of Chemical Physics, 2006, 124, 124903.	3.0	21
334	Effect of the Coilâ^'Globule Transition on the Free-Energy Barrier for Intrachain Crystal Nucleationâ€. Journal of Physical Chemistry B, 2006, 110, 3734-3737.	2.6	21
335	Probing Ergodicity in Granular Matter. Physical Review Letters, 2012, 109, 208001.	7.8	21
336	Superposition Enhanced Nested Sampling. Physical Review X, 2014, 4, .	8.9	21
337	Accuracy of Enskog theory for rotational versus translational motion: A molecular-dynamics study. Physical Review A, 1989, 39, 4330-4332.	2.5	20
338	Perspective on "The effect of shape on the interaction of colloidal particles". Theoretical Chemistry Accounts, 2000, 103, 212-213.	1.4	20
339	Free Energy Calculations. , 2002, , 167-200.		20
340	Velocity fluctuations and dispersion in a simple porous medium. Physical Review E, 2003, 67, 056306.	2.1	20
341	Plenty of room at the top. Nature Materials, 2006, 5, 85-86.	27.5	20
342	Hamiltonian Transformation to Compute Thermo-osmotic Forces. Physical Review Letters, 2018, 121, 068002.	7.8	20

#	Article	IF	Citations
343	Computing the Heat Conductivity of Fluids from Density Fluctuations. Physical Review Letters, 2020, 125, 130602.	7.8	20
344	Extended mode coupling and simulations in cellular-automata fluids. Physical Review A, 1991, 44, 2484-2494.	2.5	19
345	Comment on â€˜â€˜Determination of the chemical potential of polymeric systems from Monte Carlo simulationsâ€™â€™. Physical Review Letters, 1992, 68, 3657-3657.	7.8	19
346	Enhanced protein crystallization around the metastable critical point. Theoretical Chemistry Accounts, 1999, 101, 205-208.	1.4	19
347	Collective ordering of colloids in grafted polymer layers. Soft Matter, 2013, 9, 5565.	2.7	19
348	Simulations Suggest Possible Novel Membrane Pore Structure. Langmuir, 2014, 30, 1304-1310.	3.5	19
349	Communication: Evidence for non-ergodicity in quiescent states of periodically sheared suspensions. Journal of Chemical Physics, 2015, 143, 241103.	3.0	19
350	Controlling Cargo Trafficking in Multicomponent Membranes. Nano Letters, 2018, 18, 5350-5356.	9.1	19
351	Diffusion of brownian particles in the isotropic phase of a nematic liquid crystal. Liquid Crystals, 1987, 2, 539-547.	2.2	18
352	Direct measurement of correlation functions in a lattice Lorentz gas. Physical Review A, 1990, 42, 2463-2466.	2.5	18
353	Phase behavior of a simple model for membrane proteins. Journal of Chemical Physics, 2001, 114, 2477-2483.	3.0	18
354	Mesoscopic lattice modeling of electrokinetic phenomena. Computer Physics Communications, 2005, 169, 192-196.	7.5	18
355	Liquid-Vapor Transition Driven by Bond Disorder. Physical Review Letters, 2008, 101, 045701.	7.8	18
356	Transdisciplinary EU science institute needs funds urgently. Nature, 2010, 463, 876-876.	27.8	18
357	Accounting for Protein-Solvent Contacts Facilitates Design ofÂNonaggregating Lattice Proteins. Biophysical Journal, 2011, 100, 693-700.	0.5	18
358	Layering, freezing, and re-entrant melting of hard spheres in soft confinement. Physical Review E, 2012, 85, 021502.	2.1	18
359	A review of immune amplification via ligand clustering by self-assembled liquidâ€“crystalline DNA complexes. Advances in Colloid and Interface Science, 2016, 232, 17-24.	14.7	18
360	Thermophoretic forces on a mesoscopic scale. Soft Matter, 2018, 14, 7446-7454.	2.7	18

#	Article	IF	Citations
361	Molecular dynamics calculations on the time dependence of simple, anisotropic potentials in dense argon. Chemical Physics Letters, 1976, 40, 14-18.	2.6	17
362	Short-time correlations in liquids: Molecular-dynamics simulation of hard spheroids. Physical Review Letters, 1990, 65, 2828-2831.	7.8	17
363	Anomalous diffusion in the nematic phase of thin disks. Physical Review A, 1992, 45, R5355-R5357.	2.5	17
364	Short-time dynamics of colloidal suspensions. Physical Review E, 1996, 54, 2704-2713.	2.1	17
365	Simulation study of intra- and intermicellar ordering in triblock-copolymer systems. Journal of Chemical Physics, 2004, 120, 5839-5848.	3.0	17
366	Stresses Inside Critical Nuclei. Journal of Physical Chemistry B, 2005, 109, 6587-6594.	2.6	17
367	Pair interactions between complex mesoscopic particles from Widom's particle-insertion method. Soft Matter, 2011, 7, 1450-1455.	2.7	17
368	Optimizing the Selectivity of Surface-Adsorbing Multivalent Polymers. Macromolecules, 2014, 47, 7496-7509.	4.8	17
369	Self-assembly protocol design for periodic multicomponent structures. Soft Matter, 2015, 11, 8930-8938.	2.7	17
370	Non-equilibrium simulations of thermally induced electric fields in water. Journal of Chemical Physics, 2016, 144, 224102.	3.0	17
371	Communication: Simple approach for calculating the binding free energy of a multivalent particle. Journal of Chemical Physics, 2016, 144, 161101.	3.0	17
372	Experimental and calculated cross sections for pressure broadening of pure rotational Raman lines of HCl. Chemical Physics Letters, 1978, 56, 602-607.	2.6	16
373	Computer simulation studies of static and dynamical scaling in dilute solutions of excluded-volume polymers. Macromolecules, 1992, 25, 3435-3438.	4.8	16
374	Lattice-gas automata with attractive and repulsive interactions. Physical Review E, 1993, 48, 988-999.	2.1	16
375	A Systematic Optimization Scheme for Configurational Bias Monte Carlo. Molecular Simulation, 1996, 17, 41-55.	2.0	16
376	Self-poisoning of crystal nuclei in hard-rod liquids. Journal of Physics Condensed Matter, 2004, 16, S2029-S2036.	1.8	16
377	Soft particles feel the squeeze. Nature, 2009, 460, 465-466.	27.8	16
378	When droplets become stars: charged dielectric droplets beyond the Rayleigh limit. Soft Matter, 2017, 13, 8781-8795.	2.7	16

#	Article	IF	Citations
379	Structural and Linear Elastic Properties of DNA Hydrogels by Coarse-Grained Simulation. Macromolecules, 2019, 52, 504-512.	4.8	16
380	Reactive Momentum Transfer Contributes to the Self-Propulsion of Janus Particles. Physical Review Letters, 2020, 124, 188001.	7.8	16
381	Waste-Recycling Monte Carlo. , 2006, , 127-137.		16
382	Dynamic pruned-enriched Rosenbluth method. Molecular Physics, 2003, 101, 1675-1682.	1.7	15
383	Novel Monte Carlo scheme for systems with short-ranged interactions. Journal of Chemical Physics, 2005, 122, 244106.	3.0	15
384	Lattice-Boltzmann Simulations of Ionic Current Modulation by DNA Translocation. Journal of Chemical Theory and Computation, 2006, 2, 495-503.	5.3	15
385	The role of non-specific interactions in a patchy model of protein crystallization. Journal of Chemical Physics, 2015, 143, 194511.	3.0	15
386	Microscopic Marangoni Flows Cannot Be Predicted on the Basis of Pressure Gradients. Physical Review Letters, 2017, 119, 224502.	7.8	15
387	Smectic ordering in nematic and smectic liquid-crystalline films probed by means of surface light scattering. Physical Review A, 1988, 38, 6316-6323.	2.5	14
388	Evidence for Universal Asymptotic Decay of Velocity Fluctuations in Lorentz Gases. Europhysics Letters, 1992, 20, 7-12.	2.0	14
389	Advanced Monte Carlo Techniques. , 1993, , 93-152.		14
390	Continuous Freezing in Three Dimensions. Physical Review Letters, 2003, 90, 195701.	7.8	14
391	Translocation Boost Protein-Folding Efficiency of Double-Barreled Chaperonins. Biophysical Journal, 2006, 90, 3375-3381.	0.5	14
392	Stability of Bicelles: A Simulation Study. Langmuir, 2014, 30, 4229-4235.	3.5	14
393	Structural analysis of high-dimensional basins of attraction. Physical Review E, 2016, 94, 031301.	2.1	14
394	Computational design of probes to detect bacterial genomes by multivalent binding. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8719-8726.	7.1	14
395	Rotational diffusion model with a variable collision distribution. II. The effect of energy transfer. Journal of Chemical Physics, 1974, 61, 4671-4679.	3.0	13
396	Phase behavior of a lattice protein model. Journal of Chemical Physics, 2003, 118, 9015-9022.	3.0	13

#	Article	IF	Citations
397	Liquid carbon: structure near the freezing line. Journal of Physics Condensed Matter, 2005, 17, S3619-S3624.	1.8	13
398	Designing stimulus-sensitive colloidal walkers. Soft Matter, 2014, 10, 3463-3470.	2.7	13
399	Kinetics of formation of bile salt micelles from coarse-grained Langevin dynamics simulations. Soft Matter, 2016, 12, 5172-5179.	2.7	13
400	Emergence of complex behavior in pili-based motility in early stages of P. aeruginosa surface adaptation. Scientific Reports, 2017, 7, 45467.	3.3	13
401	What experiments on pinned nanobubbles can tell about the critical nucleus for bubble nucleation. European Physical Journal E, 2017, 40, 114.	1.6	13
402	Nanoparticle Assembly:A Perspective and some Unanswered Questions. Current Science, 2017, 112, 1635.	0.8	13
403	From lattice gases to polymers. Journal of Physics Condensed Matter, 1990, 2, SA265-SA269.	1.8	12
404	Simulating polymer liquid crystals. Journal of Physics Condensed Matter, 1996, 8, 9445-9449.	1.8	12
405	Length, proteinâ€“protein interactions, and complexity. Physica A: Statistical Mechanics and Its Applications, 2005, 350, 52-62.	2.6	12
406	Preface: Special Topic on Nucleation: New Concepts and Discoveries. Journal of Chemical Physics, 2016, 145, 211501.	3.0	12
407	Effects of co-ordination number on the nucleation behaviour in many-component self-assembly. Faraday Discussions, 2016, 186, 215-228.	3.2	12
408	Pressure gradients fail to predict diffusio-osmosis. Journal of Physics Condensed Matter, 2018, 30, 205002.	1.8	12
409	Lattice models and Monte Carlo methods for simulating DNA origami self-assembly. Journal of Chemical Physics, 2018, 149, 234905.	3.0	12
410	Calculation of the water-octanol partition coefficient of cholesterol for SPC, TIP3P, and TIP4P water. Journal of Chemical Physics, 2018, 149, 224501.	3.0	12
411	Density dependence of the pressure induced shift of HCl rotational lines perturbed by argon. Chemical Physics Letters, 1977, 50, 116-119.	2.6	11
412		3.0	11
413	Measurements of the ratio of the Frank constants for splay and bend in nematics consisting of disc-like molecules 2, 3, 6, 7, 10, 11-hexakis(p-alkoxybenzoyloxy)triphenylenes. Liquid Crystals, 1988, 3, 369-380.	2.2	11
414	Numerical test of the generalized Flory and generalized Flory dimer theories. Journal of Chemical Physics, 1994, 100, 6088-6091.	3.0	11

#	Article	IF	Citations
415	Hot electrons and the approach to metallic behaviour in K x (KCl) 1 â˜’ x. Europhysics Letters, 1996, 33, 551-556.	2.0	11
416	Nucleation in suspensions of anisotropic colloids. Computer Physics Communications, 2005, 169, 117-121.	7.5	11
417	Numerical evidence for thermally induced monopoles. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4911-4914.	7.1	11
418	Monte Carlo Simulations. , 1990, , 83-123.		11
419	Lecture Notes on: Free-Energy Calculations. , 1991, , 85-117.		10
420	Role of Fluctuations in Ligand Binding Cooperativity of Membrane Receptors. Physical Review Letters, 2011, 106, 168103.	7.8	10
421	Real-time monitoring of complex moduli from micro-rheology. Journal of Physics Condensed Matter, 2011, 23, 194118.	1.8	10
422	Error analysis and correction for Lattice Boltzmann simulated flow conductance in capillaries of different shapes and alignments. Journal of Computational Physics, 2012, 231, 2634-2640.	3.8	10
423	Investigating the role of boundary bricks in DNA brick self-assembly. Soft Matter, 2017, 13, 1670-1680.	2.7	10
424	Temperature protocols to guide selective self-assembly of competing structures. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	10
425	Velocity Autocorrelation Function in a Four-Dimensional Lattice Gas. Europhysics Letters, 1992, 17, 39-43.	2.0	9
426	Liquid-Like Behavior in Solids. Molecular Simulation, 1996, 16, 127-137.	2.0	9
427	The effect of temperature jumps during polymer crystallization. Polymer, 2000, 41, 1519-1528.	3.8	9
428	Density functional approach to helium at finite temperature. Journal of Physics Condensed Matter, 2002, 14, 9077-9088.	1.8	9
429	Comparison of simple perturbation-theory estimates for the liquidâ€“solid and the liquidâ€“vapor interfacial free energies of Lennard-Jones systems. Molecular Simulation, 2007, 33, 1023-1028.	2.0	9
430	Oligomers of Heat-Shock Proteins: Structures That Donâ€™t Imply Function. PLoS Computational Biology, 2016, 12, e1004756.	3.2	9
431	Monte Carlo sampling for stochastic weight functions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6924-6929.	7.1	9
432	Comparing theory and simulation for thermo-osmosis. Journal of Chemical Physics, 2019, 151, 124109.	3.0	9

#	Article	IF	Citations
433	Free energies of crystals computed using Einstein crystal with fixed center of mass and differing spring constants. Journal of Chemical Physics, 2021, 154, 164509.	3.0	9
434	Approximate relation between the melting of hard spheres and ellipsoidal platelets and needles. Molecular Physics, 1985, 54, 145-148.	1.7	8
435	Deviations from Fick's law in Lorentz gases. Journal of Statistical Physics, 1997, 87, 1229-1244.	1.2	8
436	Multi-Scale Simulations Provide Supporting Evidence for the Hypothesis of Intramolecular Protein Translocation in GroEL/GroES Complexes. PLoS Computational Biology, 2008, 4, e1000006.	3.2	8
437	Switch-like surface binding of competing multivalent particles. European Physical Journal: Special Topics, 2016, 225, 1673-1682.	2.6	8
438	Information density, structure and entropy in equilibrium and non-equilibrium systems. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 023204.	2.3	8
439	Computer Simulations of Phase Transitions in Liquid Crystals. NATO ASI Series Series B: Physics, 1992, , 67-95.	0.2	8
440	Computation of partial enthalpies of various Lennard-Jones model mixtures by NPT molecular dynamics. Journal of Physics Condensed Matter, 1989, 1, 957-963.	1.8	7
441	Liquid-like behavior in colloidal crystals. Physica B: Condensed Matter, 1996, 228, 33-39.	2.7	7
442	Multiple stalk formation as a pathway of defect-induced membrane fusion. European Physical Journal E, 2004, 14, 3-6.	1.6	7
443	Dynamical heterogeneity in a glass-forming ideal gas. Physical Review E, 2008, 78, 011505.	2.1	7
444	The other entropy. Molecular Physics, 2013, 111, 3641-3650.	1.7	7
445	Challenges in modelling diffusiophoretic transport. European Physical Journal B, 2021, 94, 1.	1.5	7
446	Thermodynamics and kinetics of crystallization in deeply supercooled Stillingerâ€“Weber silicon. Journal of Chemical Physics, 2021, 155, 194502.	3.0	7
447	Computer simulation of hard-core models for liquid crystals. Computer Physics Communications, 1987, 44, 243-253.	7.5	6
448	Non-Boltzmann behavior from the Boltzmann equation. Physical Review E, 1995, 51, 4287-4291.	2.1	6
449	Computer simulation of the phase behavior of a model membrane protein: Annexin V. Journal of Chemical Physics, 2002, 116, 7217-7224.	3.0	6
450	Numerical calculation of the melting phase diagram of low molecular-weight polyethylene. Journal of Chemical Physics, 2003, 118, 9433-9440.	3.0	6

#	Article	IF	Citations
451	Mechanism of two-step vapourâ€“crystal nucleation in a pore. Molecular Physics, 2015, 113, 2742-2754.	1.7	6
452	Theoretical Prediction of Thermal Polarization. Physical Review Letters, 2018, 120, 226001.	7.8	6
453	Studying polymer diffusiophoresis with non-equilibrium molecular dynamics. Journal of Chemical Physics, 2020, 152, 164901.	3.0	6
454	Reduced variance analysis of molecular dynamics simulations by linear combination of estimators. Journal of Chemical Physics, 2021, 154, 191101.	3.0	6
455	Interpretation of dipole correlation functions in some liquid systems. Faraday Symposia of the Chemical Society, 1972, 6, 94.	0.5	5
456	Dynamics of the Frederiks transition in nematics consisting of disc-like molecules Thermal dependence of a bend viscosity coefficient. Liquid Crystals, 1988, 3, 1105-1114.	2.2	5
457	Dynamic light scattering near the isotropic-blue phase transition of cholesteryl-oleylcarbonate. Liquid Crystals, 1988, 3, 337-345.	2.2	5
458	Simulation of sub-molecular and supra-molecular fluids. Physica A: Statistical Mechanics and Its Applications, 1991, 176, 54-62.	2.6	5
459	Modeling the Phase Behavior of the Membrane Binding Protein Annexin V. Langmuir, 2002, 18, 2988-2992.	3.5	5
460	Simple off-lattice model to study the folding and aggregation of peptides. Molecular Physics, 2007, 105, 375-385.	1.7	5
461	Colloidal crystals full of invisible vacancies. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17728-17729.	7.1	5
462	Computation of the chemical potential and solubility of amorphous solids. Journal of Chemical Physics, 2021, 154, 124502.	3.0	5
463	Numerical Techniques to Study Complex Liquids. , 1995, , 357-419.		5
464	Computation challenges in complex liquids: Entropy-driven phase transitions. Future Generation Computer Systems, 1994, 10, 207-212.	7.5	4
465	Comment on ``Novel Monte Carlo Approach to the Dynamics of Fluids: Single-Particle Diffusion, Correlation Functions, and Phase Ordering of Binary Fluids''. Physical Review Letters, 1997, 79, 1168-1168.	7.8	4
466	Simulation of phase coexistence for complex molecules. Computers in Physics, 1997, 11, 246.	0.5	4
467	Free Energy and Structure of Dislocation Cores in Two-Dimensional Crystals. Journal of Physical Chemistry B, 2004, 108, 6707-6718.	2.6	4
468	Addressing hysteresis and slow equilibration issues in cavity-based calculation of chemical potentials. Journal of Chemical Physics, 2018, 149, 014105.	3.0	4

#	Article	IF	Citations
469	Solubilities of pyrene in organic solvents: Comparison between chemical potential calculations using a cavity-based method and direct coexistence simulations. Journal of Chemical Thermodynamics, 2019, 131, 620-629.	2.0	4
470	Effect of the interaction strength and anisotropy on the diffusio-phoresis of spherical colloids. Soft Matter, 2020, 16, 3621-3627.	2.7	4
471	Estimation of the equilibrium free energy for glasses using the Jarzynski equality. Journal of Chemical Physics, 2021, 154, 231101.	3.0	4
472	Pressure broadening of acetylene rotational Raman lines by argon. The Journal of Physical Chemistry, 1980, 84, 2694-2695.	2.9	3
473	Non-linear conductivity in morpholinium (TCNQ)2salts. Journal of Physics C: Solid State Physics, 1987, 20, 2109-2117.	1.5	3
474	Computer simulation of crystal nucleation of parallel hard spherocylinders. Physica A: Statistical Mechanics and Its Applications, 1989, 156, 599-612.	2.6	3
475	Velocity correlations in a one-dimensional lattice gas: Theory and simulations. Physical Review E, 1993, 47, 4098-4103.	2.1	3
476	Order through disorder: Entropy-driven phase transitions. , 1993, , 137-148.		3
477	Computer simulations of long-time tails: What's new?. Transport Theory and Statistical Physics, 1995, 24, 1227-1247.	0.4	3
478	Non-Fickian diffusion in colloidal glasses. Journal of Chemical Physics, 1998, 109, 275-280.	3.0	3
479	Application of the optimized Baxter model to the hard-core attractive Yukawa system. Journal of Chemical Physics, 2006, 125, 194506.	3.0	3
480	Ordered chaos. Nature Physics, 2008, 4, 345-346.	16.7	3
481	Free-energy-based method for step size detection of processive molecular motors. European Physical Journal E, 2010, 31, 411-417.	1.6	3
482	Publisherâ€™s Note: Design Rule for Colloidal Crystals of DNA-Functionalized Particles [Phys. Rev. Lett.107, 045902 (2011)]. Physical Review Letters, 2011, 107, .	7.8	3
483	Hot Nanoparticles in Polar or Paramagnetic Liquids Interact as Monopoles. Journal of Physical Chemistry B, 2016, 120, 5987-5989.	2.6	3
484	Numerical method for computing the free energy of glasses. Physical Review E, 2020, 102, 063303.	2.1	3
485	Dynamics of Colloidal Dispersions via Lattice-Gas Models of an Incompressible Fluid. Springer Proceedings in Physics, 1989, , 242-245.	0.2	3
486	Stability of the High-Pressure Body-Centered-Cubic Phase of Helium. Physical Review Letters, 1986, 57, 2331-2331.	7.8	2

#	Article	IF	Citations
487	Response to â€˜â€˜Comment on â€˜Longâ€time tails in angular momentum correlationsâ€™â€‰â€™ [J. Chem. Phys.104, 7363 (1996)]. Journal of Chemical Physics, 1996, 104, 7364-7365.	3.0	2
488	Phase separation in mixtures of a rodlike colloid and two or more rodlike polymers. Journal of Chemical Physics, 1996, 105, 10632-10636.	3.0	2
489	Response to â€œRotational velocity autocorrelation function of interacting Brownian particlesâ€. Physica A: Statistical Mechanics and Its Applications, 2001, 289, 419-421.	2.6	2
490	Multiple Histogram Method and Static Monte Carlo Sampling. Macromolecular Theory and Simulations, 2004, 13, 36-43.	1.4	2
491	Folding Proteins One Loop at a Time. Biophysical Journal, 2016, 111, 893-894.	0.5	2
492	Nano-pump based on exothermic surface reactions. Soft Matter, 2021, 17, 1173-1177.	2.7	2
493	Long time tails in stress correlation functions. , 1995, , 240-249.		2
494	Long-Time Decay of Velocity Autocorrelation Function of Two-Dimensional Lattice Gas Cellular Automata. Springer Proceedings in Physics, 1989, , 144-154.	0.2	2
495	Study of Diffusion in Lattice-Gas Fluids and Colloids. NATO ASI Series Series B: Physics, 1992, , 205-220.	0.2	2
496	Rotational relaxation of solute molecules in dense noble gases and the relation with local anisotropy fluctuations. Faraday Symposia of the Chemical Society, 1977, 11, 125.	0.5	1
497	Monte Carlo simulation of carrier number noise spectra in the integral quantum Hall regime. Journal of Physics C: Solid State Physics, 1988, 21, L177-L183.	1.5	1
498	Understanding liquids: a computer game?. Physics World, 1996, 9, 35-42.	0.0	1
499	Monte Carlo simulations. , 1998, , .		1
500	Biased Monte Carlo Methods. AIP Conference Proceedings, 2003, , .	0.4	1
501	Lattice-based Monte Carlo method for telechelic chain molecules. Physical Review E, 2007, 75, 036708.	2.1	1
502	Challenges in Nanoparticle Delivery: Cellular Uptake and Intracellular Escape. Biophysical Journal, 2013, 104, 622a.	0.5	1
503	Jean-Pierre Hansen â€“ a stimulating history of simulating fluids. Molecular Physics, 2015, 113, 2363-2375.	1.7	1
504	Modeling and Theory: general discussion. Faraday Discussions, 2016, 186, 371-398.	3.2	1

#	Article	IF	Citations
505	Applications to Soft Matter: general discussion. Faraday Discussions, 2016, 186, 503-527.	3.2	1
506	Nanocomposites: general discussion. Faraday Discussions, 2016, 186, 277-293.	3.2	1
507	The pathway and kinetics of hierarchical assembly of ionic oligomers into a lyotropic columnar phase. Soft Matter, 2019, 15, 4460-4466.	2.7	1
508	Using Molecular Simulation to Compute Transport Coefficients of Molecular Gases. Journal of Physical Chemistry B, 2020, 124, 7636-7646.	2.6	1
509	Effect of social distancing on super-spreading diseases: why pandemics modelling is more challenging than molecular simulation. Molecular Physics, 0, , e1936247.	1.7	1
510	Modelling aggregates of cetyltrimethylammonium bromide on gold surfaces using dissipative particle dynamics simulations. Molecular Simulation, 0, , 1-10.	2.0	1
511	Rotational Relaxation of Solute Molecules in Dense Noble Gases. , 1978, , 441-445.		1
512	Phase Behavior of Lyotropic Liquid Crystals. , 2000, , 51-72.		1
513	Old and New Phases in Complex Liquids. Oil & Gas Science & Technology, 1996, 51, 141-150.	0.2	1
514	Perspective on â€œThe effect of shape on the interaction of colloidal particlesâ€•, 2000, , 212-213.		1
515	Interpretation of far Infrared Spectra in Terms of a Collision Distribution. , 1974, , 647-653.		1
516	Light scattering study of the statistical properties of nematic director fluctuations. Physica A: Statistical Mechanics and Its Applications, 1985, 131, 278-288.	2.6	0
517	Computer simulation of pretransitional phenomena in hard-core models for liquid crystals. , 1987, , 143-170.		0
518	Effects of sound modes on the VACF in cellular automation fluids. Lecture Notes in Physics, 1990, , 29-38.	0.7	0
519	Simulating mesoscopic order. Computational Materials Science, 1994, 2, 127-130.	3.0	0
520	Perspective on "Statistical mechanical theory of irreversible processes. I. General theory and simple applications to magnetic and conduction problems.". Theoretical Chemistry Accounts, 2000, 103, 234-235.	1.4	0
521	Publisher's Note: Lattice-based Monte Carlo method for telechelic chain molecules [Phys. Rev. E75, 036708 (2007)]. Physical Review E, 2007, 75, .	2.1	0
522	Introduction: Role of Modeling in Soft Matter Physics. Series in Sof Condensed Matter, 2010, , 1-7.	0.1	0

#	Article	IF	Citations
523	Slow colloidal dynamics in polymer brushes. , 2013, , .		0
524	Double-Belt a Novel Structure of Membrane Pore. Biophysical Journal, 2014, 106, 99a.	0.5	0
525	Synthesis of Nanoparticle Assemblies: general discussion. Faraday Discussions, 2016, 186, 123-152.	3.2	0
526	Special Issue on Liquid Matter 2017. Journal of Physics Condensed Matter, 2018, 30, 290301.	1.8	0
527	A Test of Mode-Coupling Theory. NATO ASI Series Series B: Physics, 1990, , 279-289.	0.2	0
528	Simulation of Sub-molecular and Supra-molecular Fluids. Springer Series in Solid-state Sciences, 1992, , 111-129.	0.3	0
529	Isostructural Solid-Solid Transition in Crystalline Systems with Short Ranged Interaction. , 1998, , 315-324.		0
530	Special issue in honour of Michael L. Klein FRS. Molecular Physics, 2021, 119, .	1.7	0