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	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
2	Nano-pump based on exothermic surface reactions. Soft Matter, 2021, 17, 1173-1177.	2.7	2
3	Computation of the chemical potential and solubility of amorphous solids. Journal of Chemical Physics, 2021, 154, 124502.	3.0	5
4	Thermodynamics and kinetics of phase separation of protein-RNA mixtures by a minimal model. Biophysical Journal, 2021, 120, 1219-1230.	0.5	56
5	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
6	Reduced variance analysis of molecular dynamics simulations by linear combination of estimators. Journal of Chemical Physics, 2021, 154, 191101.	3.0	6
7	Estimation of the equilibrium free energy for glasses using the Jarzynski equality. Journal of Chemical Physics, 2021, 154, 231101.	3.0	4
8	Challenges in modelling diffusiophoretic transport. European Physical Journal B, 2021, 94, 1.	1.5	7
9	Thermodynamics and kinetics of crystallization in deeply supercooled Stillingerâ€“Weber silicon. Journal of Chemical Physics, 2021, 155, 194502.	3.0	7
10	Special issue in honour of Michael L. Klein FRS. Molecular Physics, 2021, 119, .	1.7	0
11	The Lennard-Jones potential: when (not) to use it. Physical Chemistry Chemical Physics, 2020, 22, 10624-10633.	2.8	133
12	Using Molecular Simulation to Compute Transport Coefficients of Molecular Gases. Journal of Physical Chemistry B, 2020, 124, 7636-7646.	2.6	1
13	Computing the Heat Conductivity of Fluids from Density Fluctuations. Physical Review Letters, 2020, 125, 130602.	7.8	20
14	Numerical method for computing the free energy of glasses. Physical Review E, 2020, 102, 063303.	2.1	3
15	Studying polymer diffusiophoresis with non-equilibrium molecular dynamics. Journal of Chemical Physics, 2020, 152, 164901.	3.0	6
16	Reactive Momentum Transfer Contributes to the Self-Propulsion of Janus Particles. Physical Review Letters, 2020, 124, 188001.	7.8	16
17	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
18	Information density, structure and entropy in equilibrium and non-equilibrium systems. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 023204.	2.3	8

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19	Effect of the interaction strength and anisotropy on the diffusio-phoresis of spherical colloids. Soft Matter, 2020, 16, 3621-3627.	2.7	4
20	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
21	Comparing theory and simulation for thermo-osmosis. Journal of Chemical Physics, 2019, 151, 124109.	3.0	9
22	Structural and Linear Elastic Properties of DNA Hydrogels by Coarse-Grained Simulation. Macromolecules, 2019, 52, 504-512.	4.8	16
23	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
24	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
25	The pathway and kinetics of hierarchical assembly of ionic oligomers into a lyotropic columnar phase. Soft Matter, 2019, 15, 4460-4466.	2.7	1
26	Heterogeneous versus homogeneous crystal nucleation of hard spheres. Soft Matter, 2019, 15, 9625-9631.	2.7	27
27	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
28	Controlling Cargo Trafficking in Multicomponent Membranes. Nano Letters, 2018, 18, 5350-5356.	9.1	19
29	Pressure gradients fail to predict diffusio-osmosis. Journal of Physics Condensed Matter, 2018, 30, 205002.	1.8	12
30	A unified description of colloidal thermophoresis. European Physical Journal E, 2018, 41, 7.	1.6	46
31	Lattice models and Monte Carlo methods for simulating DNA origami self-assembly. Journal of Chemical Physics, 2018, 149, 234905.	3.0	12
32	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
33	Quantifying Co-Oligomer Formation by Î±-Synuclein. ACS Nano, 2018, 12, 10855-10866.	14.6	38
34	Thermophoretic forces on a mesoscopic scale. Soft Matter, 2018, 14, 7446-7454.	2.7	18
35	Theoretical Prediction of Thermal Polarization. Physical Review Letters, 2018, 120, 226001.	7.8	6
36	Computational methodology for solubility prediction: Application to sparingly soluble organic/inorganic materials. Journal of Chemical Physics, 2018, 149, 054102.	3.0	23

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37	Hamiltonian Transformation to Compute Thermo-osmotic Forces. Physical Review Letters, 2018, 121, 068002.	7.8	20
38	Addressing hysteresis and slow equilibration issues in cavity-based calculation of chemical potentials. Journal of Chemical Physics, 2018, 149, 014105.	3.0	4
39	Special Issue on Liquid Matter 2017. Journal of Physics Condensed Matter, 2018, 30, 290301.	1.8	0
40	Investigating the role of boundary bricks in DNA brick self-assembly. Soft Matter, 2017, 13, 1670-1680.	2.7	10
41	Phase Transitions in Biological Systems with Many Components. Biophysical Journal, 2017, 112, 683-691.	0.5	121
42	Emergence of complex behavior in pili-based motility in early stages of P. aeruginosa surface adaptation. Scientific Reports, 2017, 7, 45467.	3.3	13
43	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
44	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
45	Computational methodology for solubility prediction: Application to the sparingly soluble solutes. Journal of Chemical Physics, 2017, 146, 214110.	3.0	71
46	Molecular Simulation of Thermo-osmotic Slip. Physical Review Letters, 2017, 119, 038002.	7.8	53
47	Microscopic Marangoni Flows Cannot Be Predicted on the Basis of Pressure Gradients. Physical Review Letters, 2017, 119, 224502.	7.8	15
48	When droplets become stars: charged dielectric droplets beyond the Rayleigh limit. Soft Matter, 2017, 13, 8781-8795.	2.7	16
49	Numerical test of the Edwards conjecture shows that all packings are equally probable at jamming. Nature Physics, 2017, 13, 848-851.	16.7	34
50	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
51	What experiments on pinned nanobubbles can tell about the critical nucleus for bubble nucleation. European Physical Journal E, 2017, 40, 114.	1.6	13
52	Nanoparticle Assembly:A Perspective and some Unanswered Questions. Current Science, 2017, 112, 1635.	0.8	13
53	Oligomers of Heat-Shock Proteins: Structures That Donâ€™t Imply Function. PLoS Computational Biology, 2016, 12, e1004756.	3.2	9
54	Non-equilibrium simulations of thermally induced electric fields in water. Journal of Chemical Physics, 2016, 144, 224102.	3.0	17

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55	Communication: Simple approach for calculating the binding free energy of a multivalent particle. Journal of Chemical Physics, 2016, 144, 161101.	3.0	17
56	Switch-like surface binding of competing multivalent particles. European Physical Journal: Special Topics, 2016, 225, 1673-1682.	2.6	8
57	Quantitative analysis of co-oligomer formation by amyloid-beta peptide isoforms. Scientific Reports, 2016, 6, 28658.	3.3	45
58	Preface: Special Topic on Nucleation: New Concepts and Discoveries. Journal of Chemical Physics, 2016, 145, 211501.	3.0	12
59	Kinetics of spontaneous filament nucleation via oligomers: Insights from theory and simulation. Journal of Chemical Physics, 2016, 145, 211926.	3.0	73
60	Modeling and Theory: general discussion. Faraday Discussions, 2016, 186, 371-398.	3.2	1
61	Kinetics of formation of bile salt micelles from coarse-grained Langevin dynamics simulations. Soft Matter, 2016, 12, 5172-5179.	2.7	13
62	Hot Nanoparticles in Polar or Paramagnetic Liquids Interact as Monopoles. Journal of Physical Chemistry B, 2016, 120, 5987-5989.	2.6	3
63	Synthesis of Nanoparticle Assemblies: general discussion. Faraday Discussions, 2016, 186, 123-152.	3.2	0
64	Applications to Soft Matter: general discussion. Faraday Discussions, 2016, 186, 503-527.	3.2	1
65	Nanocomposites: general discussion. Faraday Discussions, 2016, 186, 277-293.	3.2	1
66	Light-induced actuating nanotransducers. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5503-5507.	7.1	143
67	Folding Proteins One Loop at a Time. Biophysical Journal, 2016, 111, 893-894.	0.5	2
68	Structural analysis of high-dimensional basins of attraction. Physical Review E, 2016, 94, 031301.	2.1	14
69	Physical determinants of the self-replication of protein fibrils. Nature Physics, 2016, 12, 874-880.	16.7	90
70	Turning intractable counting into sampling: Computing the configurational entropy of three-dimensional jammed packings. Physical Review E, 2016, 93, 012906.	2.1	48
71	The crucial effect of early-stage gelation on the mechanical properties of cement hydrates. Nature Communications, 2016, 7, 12106.	12.8	109
72	DNA brick self-assembly with an off-lattice potential. Soft Matter, 2016, 12, 6253-6260.	2.7	24

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73	Self-Assembly of Structures with Addressable Complexity. Journal of the American Chemical Society, 2016, 138, 2457-2467.	13.7	73
74	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
75	Consistent Treatment of Hydrophobicity in Protein Lattice Models Accounts for Cold Denaturation. Physical Review Letters, 2016, 116, 078101.	7.8	29
76	Theory and simulation of DNA-coated colloids: a guide for rational design. Physical Chemistry Chemical Physics, 2016, 18, 6373-6393.	2.8	55
77	Rational design of molecularly imprinted polymers. Soft Matter, 2016, 12, 35-44.	2.7	44
78	Effects of co-ordination number on the nucleation behaviour in many-component self-assembly. Faraday Discussions, 2016, 186, 215-228.	3.2	12
79	An enhanced version of the heat exchange algorithm with excellent energy conservation properties. Journal of Chemical Physics, 2015, 143, 124104.	3.0	108
80	Communication: Evidence for non-ergodicity in quiescent states of periodically sheared suspensions. Journal of Chemical Physics, 2015, 143, 241103.	3.0	19
81	The role of non-specific interactions in a patchy model of protein crystallization. Journal of Chemical Physics, 2015, 143, 194511.	3.0	15
82	Liquid-crystalline ordering of antimicrobial peptideâ€“DNA complexes controls TLR9 activation. Nature Materials, 2015, 14, 696-700.	27.5	75
83	Mechanism of two-step vapourâ€“crystal nucleation in a pore. Molecular Physics, 2015, 113, 2742-2754.	1.7	6
84	Gibbs, Boltzmann, and negative temperatures. American Journal of Physics, 2015, 83, 163-170.	0.7	83
85	Lattice simulation method to model diffusion and NMR spectra in porous materials. Journal of Chemical Physics, 2015, 142, 094701.	3.0	28
86	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
87	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
88	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
89	Jean-Pierre Hansen â€“ a stimulating history of simulating fluids. Molecular Physics, 2015, 113, 2363-2375.	1.7	1
90	Communication: Theoretical prediction of free-energy landscapes for complex self-assembly. Journal of Chemical Physics, 2015, 142, 021101.	3.0	34

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91	Self-assembly protocol design for periodic multicomponent structures. Soft Matter, 2015, 11, 8930-8938.	2.7	17
92	Order through entropy. Nature Materials, 2015, 14, 9-12.	27.5	205
93	Superposition Enhanced Nested Sampling. Physical Review X, 2014, 4, .	8.9	21
94	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
95	Simulations Suggest Possible Novel Membrane Pore Structure. Langmuir, 2014, 30, 1304-1310.	3.5	19
96	Double-Belt a Novel Structure of Membrane Pore. Biophysical Journal, 2014, 106, 99a.	0.5	0
97	Numerical Calculation of Granular Entropy. Physical Review Letters, 2014, 112, 098002.	7.8	68
98	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
99	Phase separation in solutions with specific and nonspecific interactions. Journal of Chemical Physics, 2014, 140, 204109.	3.0	29
100	Designing stimulus-sensitive colloidal walkers. Soft Matter, 2014, 10, 3463-3470.	2.7	13
101	Optimizing the Selectivity of Surface-Adsorbing Multivalent Polymers. Macromolecules, 2014, 47, 7496-7509.	4.8	17
102	Effect of Inert Tails on the Thermodynamics of DNA Hybridization. Journal of the American Chemical Society, 2014, 136, 6538-6541.	13.7	44
103	Stability of Bicelles: A Simulation Study. Langmuir, 2014, 30, 4229-4235.	3.5	14
104	Mobile Linkers on DNA-Coated Colloids: Valency without Patches. Physical Review Letters, 2014, 113, 128303.	7.8	75
105	Nanoparticle Organization in Sandwiched Polymer Brushes. Nano Letters, 2014, 14, 2617-2622.	9.1	37
106	Numerical Evidence for Nucleated Self-Assembly of DNA Brick Structures. Physical Review Letters, 2014, 112, 238103.	7.8	82
107	Superselective Targeting Using Multivalent Polymers. Journal of the American Chemical Society, 2014, 136, 1722-1725.	13.7	92
108	A Simple Lattice Model That Captures Protein Folding, Aggregation and Amyloid Formation. PLoS ONE, 2014, 9, e85185.	2.5	66

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109	Predicting phase behavior in multicomponent mixtures. Journal of Chemical Physics, 2013, 139, 024108.	3.0	46
110	Challenges in Nanoparticle Delivery: Cellular Uptake and Intracellular Escape. Biophysical Journal, 2013, 104, 622a.	0.5	1
111	The other entropy. Molecular Physics, 2013, 111, 3641-3650.	1.7	7
112	Living Clusters and Crystals from Low-Density Suspensions of Active Colloids. Physical Review Letters, 2013, 111, 245702.	7.8	121
113	Procedure to construct a multi-scale coarse-grained model of DNA-coated colloids from experimental data. Soft Matter, 2013, 9, 7342.	2.7	23
114	Simulations: The dark side. European Physical Journal Plus, 2013, 128, 1.	2.6	113
115	Collective ordering of colloids in grafted polymer layers. Soft Matter, 2013, 9, 5565.	2.7	19
116	Visualizing Basins of Attraction for Different Minimization Algorithms. Journal of Physical Chemistry B, 2013, 117, 12717-12723.	2.6	36
117	Communication: A simple analytical formula for the free energy of ligandâ€“receptor-mediated interactions. Journal of Chemical Physics, 2013, 138, 021102.	3.0	52
118	Accounting for adsorption and desorption in lattice Boltzmann simulations. Physical Review E, 2013, 88, 013308.	2.1	39
119	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
120	Slow colloidal dynamics in polymer brushes. , 2013, , .		0
121	Connecting Macroscopic Observables and Microscopic Assembly Events in Amyloid Formation Using Coarse Grained Simulations. PLoS Computational Biology, 2012, 8, e1002692.	3.2	63
122	A general theory of DNA-mediated and other valence-limited colloidal interactions. Journal of Chemical Physics, 2012, 137, 094108.	3.0	96
123	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
124	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
125	Controlling the temperature sensitivity of DNA-mediated colloidal interactions through competing linkages. Soft Matter, 2012, 8, 2213.	2.7	42
126	Running Faster Together: Huge Speed up of Thermal Ratchets due to Hydrodynamic Coupling. Physical Review Letters, 2012, 109, 168101.	7.8	25

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127	Intracellular Release of Endocytosed Nanoparticles Upon a Change of Ligandâ€“Receptor Interaction. ACS Nano, 2012, 6, 10598-10605.	14.6	55
128	Probing Ergodicity in Granular Matter. Physical Review Letters, 2012, 109, 208001.	7.8	21
129	Re-entrant melting as a design principle for DNA-coated colloids. Nature Materials, 2012, 11, 518-522.	27.5	104
130	A parameter-free, solid-angle based, nearest-neighbor algorithm. Journal of Chemical Physics, 2012, 136, 234107.	3.0	86
131	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
132	Quantitative Prediction of the Phase Diagram of DNA-Functionalized Nanosized Colloids. Physical Review Letters, 2012, 108, 268301.	7.8	47
133	Layering, freezing, and re-entrant melting of hard spheres in soft confinement. Physical Review E, 2012, 85, 021502.	2.1	18
134	Spiers Memorial Lecture: Effect of interaction specificity on the phase behaviour of patchy particles. Faraday Discussions, 2012, 159, 9.	3.2	36
135	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
136	Accounting for Protein-Solvent Contacts Facilitates Design ofÂNonaggregating Lattice Proteins. Biophysical Journal, 2011, 100, 693-700.	0.5	18
137	Relation between Molecular Shape and the Morphology of Self-Assembling Aggregates: A Simulation Study. Biophysical Journal, 2011, 101, 1432-1439.	0.5	62
138	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
139	Role of Fluctuations in Ligand Binding Cooperativity of Membrane Receptors. Physical Review Letters, 2011, 106, 168103.	7.8	10
140	Design Rule for Colloidal Crystals of DNA-Functionalized Particles. Physical Review Letters, 2011, 107, 045902.	7.8	74
141	Pair interactions between complex mesoscopic particles from Widom's particle-insertion method. Soft Matter, 2011, 7, 1450-1455.	2.7	17
142	Direct Determination of the Size of Basins of Attraction of Jammed Solids. Physical Review Letters, 2011, 106, 245502.	7.8	44
143	Receptor-Mediated Endocytosis of Nanoparticles of Various Shapes. Nano Letters, 2011, 11, 5391-5395.	9.1	441
144	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

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145	Designed to yield. Nature Materials, 2011, 10, 410-411.	27.5	41
146	Real-time monitoring of complex moduli from micro-rheology. Journal of Physics Condensed Matter, 2011, 23, 194118.	1.8	10
147	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
148	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
149	Free-energy-based method for step size detection of processive molecular motors. European Physical Journal E, 2010, 31, 411-417.	1.6	3
150	Transdisciplinary EU science institute needs funds urgently. Nature, 2010, 463, 876-876.	27.8	18
151	Introduction: Role of Modeling in Soft Matter Physics. Series in Sof Condensed Matter, 2010, , 1-7.	0.1	0
152	Design Principles for Broad-Spectrum Protein-Crystal Nucleants with Nanoscale Pits. Physical Review Letters, 2010, 105, 205501.	7.8	48
153	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
154	Coarse-grained simulations of charge, current and flow in heterogeneous media. Faraday Discussions, 2010, 144, 223-243.	3.2	49
155	Simulation study of micelle formation by bile salts. Soft Matter, 2010, 6, 3815.	2.7	41
156	Anomalous phase behavior of liquidâ€“vapor phase transition in binary mixtures of DNA-coated particles. Soft Matter, 2010, 6, 6136.	2.7	25
157	Geometrical frustration: A study of four-dimensional hard spheres. Physical Review E, 2009, 79, 030201.	2.1	45
158	Field-Induced Self-Assembly of Suspended Colloidal Membranes. Physical Review Letters, 2009, 103, 228301.	7.8	127
159	Soft particles feel the squeeze. Nature, 2009, 460, 465-466.	27.8	16
160	Homogeneous Bubble Nucleation Driven by Local Hot Spots: A Molecular Dynamics Study. Journal of Physical Chemistry B, 2009, 113, 3776-3784.	2.6	86
161	Phase diagram of Hertzian spheres. Journal of Chemical Physics, 2009, 131, 044514.	3.0	119
162	Waterlike thermodynamic anomalies in a repulsive-shoulder potential system. Physical Review E, 2009, 79, 051202.	2.1	99

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163	Ordered chaos. Nature Physics, 2008, 4, 345-346.	16.7	3
164	Protein Shape and Crowding Drive Domain Formation and Curvature in Biological Membranes. Biophysical Journal, 2008, 94, 640-647.	0.5	74
165	Quasibinary amorphous phase in a three-dimensional system of particles with repulsive-shoulder interactions. Journal of Chemical Physics, 2008, 129, 064512.	3.0	116
166	State-of-the-art models for the phase diagram of carbon and diamond nucleation. Molecular Physics, 2008, 106, 2011-2038.	1.7	58
167	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
168	Harvesting graphics power for MD simulations. Molecular Simulation, 2008, 34, 259-266.	2.0	131
169	Multiple occupancy crystals formed by purely repulsive soft particles. Journal of Physics Condensed Matter, 2008, 20, 494245.	1.8	61
170	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
171	Dispersion of charged tracers in charged porous media. Europhysics Letters, 2008, 83, 34004.	2.0	28
172	Two-step vapor-crystal nucleation close below triple point. Journal of Chemical Physics, 2008, 129, 204505.	3.0	82
173	Disordered Flanks Prevent Peptide Aggregation. PLoS Computational Biology, 2008, 4, e1000241.	3.2	54
174	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
175	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
176	Liquid-Vapor Transition Driven by Bond Disorder. Physical Review Letters, 2008, 101, 045701.	7.8	18
177	Dynamical heterogeneity in a glass-forming ideal gas. Physical Review E, 2008, 78, 011505.	2.1	7
178	Unexpected relaxation dynamics of a self-avoiding polymer in cylindrical confinement. Journal of Chemical Physics, 2007, 127, 164903.	3.0	47
179	Computing stationary distributions in equilibrium and nonequilibrium systems with forward flux sampling. Journal of Chemical Physics, 2007, 127, 114109.	3.0	102
180	Gas-solid coexistence of adhesive spheres. Journal of Chemical Physics, 2007, 126, 196101.	3.0	28

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181	Simple off-lattice model to study the folding and aggregation of peptides. Molecular Physics, 2007, 105, 375-385.	1.7	5
182	Local Structure of Liquid Carbon Controls Diamond Nucleation. Physical Review Letters, 2007, 99, 055702.	7.8	41
183	Phase Coexistence of Cluster Crystals: Beyond the Gibbs Phase Rule. Physical Review Letters, 2007, 99, 235702.	7.8	63
184	Lattice-based Monte Carlo method for telechelic chain molecules. Physical Review E, 2007, 75, 036708.	2.1	1
185	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
186	Molecular simulations of droplet coalescence in oil/water/surfactant systems. Journal of Chemical Physics, 2007, 127, 134701.	3.0	68
187	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
188	Monte Carlo Study of Substrate-Induced Folding and Refolding of Lattice Proteins. Biophysical Journal, 2007, 92, 1150-1156.	0.5	24
189	Hard Convex Body Fluids. Advances in Chemical Physics, 2007, , 1-166.	0.3	205
190	Evidence for Out-of-Equilibrium Crystal Nucleation in Suspensions of Oppositely Charged Colloids. Physical Review Letters, 2007, 99, 055501.	7.8	97
191	A finite-cluster phase in Î»-DNA-coated colloids. Soft Matter, 2007, 3, 703-706.	2.7	30
192	Translocation Boost Protein-Folding Efficiency of Double-Barreled Chaperonins. Biophysical Journal, 2006, 90, 3375-3381.	0.5	14
193	Lattice-Boltzmann simulation of the sedimentation of charged disks. Journal of Chemical Physics, 2006, 124, 124903.	3.0	21
194	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
195	Lattice-Boltzmann Simulations of Ionic Current Modulation by DNA Translocation. Journal of Chemical Theory and Computation, 2006, 2, 495-503.	5.3	15
196	Seeds of phase change. Nature, 2006, 443, 641-641.	27.8	35
197	Plenty of room at the top. Nature Materials, 2006, 5, 85-86.	27.5	20
198	Application of the optimized Baxter model to the hard-core attractive Yukawa system. Journal of Chemical Physics, 2006, 125, 194506.	3.0	3

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199	MATERIALS SCIENCE: Colloidal Encounters: A Matter of Attraction. Science, 2006, 314, 768-769.	12.6	45
200	Designing ordered DNA-linked nanoparticle assemblies. Journal of Physics Condensed Matter, 2006, 18, S567-S580.	1.8	29
201	Forward flux sampling-type schemes for simulating rare events: Efficiency analysis. Journal of Chemical Physics, 2006, 124, 194111.	3.0	183
202	Simulating rare events in equilibrium or nonequilibrium stochastic systems. Journal of Chemical Physics, 2006, 124, 024102.	3.0	314
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