

Thomas M Truskett

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176
papers

7,007
citations

41
h-index

77
g-index

186
ext. papers

7,558
ext. citations

4.6
avg, IF

6.05
L-index

#	Paper	IF	Citations
176	Is random close packing of spheres well defined?. <i>Physical Review Letters</i> , 2000 , 84, 2064-7	7.4	1017
175	Modeling water, the hydrophobic effect, and ion solvation. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2005 , 34, 173-99		333
174	Hydrophobic hydration from small to large lengthscales: Understanding and manipulating the crossover. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 9475-80	11.5	255
173	Towards a quantification of disorder in materials: distinguishing equilibrium and glassy sphere packings. <i>Physical Review E</i> , 2000 , 62, 993-1001	2.4	239
172	Excess-entropy-based anomalies for a waterlike fluid. <i>Journal of Chemical Physics</i> , 2006 , 125, 244502	3.9	146
171	A single-bond approach to orientation-dependent interactions and its implications for liquid water. <i>Journal of Chemical Physics</i> , 1999 , 111, 2647-2656	3.9	145
170	Layering and position-dependent diffusive dynamics of confined fluids. <i>Physical Review Letters</i> , 2008 , 100, 145901	7.4	144
169	Thermodynamic implications of confinement for a waterlike fluid. <i>Journal of Chemical Physics</i> , 2001 , 114, 2401-2418	3.9	137
168	Structural precursor to freezing in the hard-disk and hard-sphere systems. <i>Physical Review E</i> , 1998 , 58, 3083-3088	2.4	125
167	Thermodynamics predicts how confinement modifies the dynamics of the equilibrium hard-sphere fluid. <i>Physical Review Letters</i> , 2006 , 96, 177804	7.4	121
166	The Kauzmann Paradox Revisited. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 11809-11816	3.4	117
165	A simple molecular thermodynamic theory of hydrophobic hydration. <i>Journal of Chemical Physics</i> , 2002 , 116, 2907-2921	3.9	111
164	Effects of lengthscales and attractions on the collapse of hydrophobic polymers in water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 733-8	11.5	105
163	Relationship between thermodynamics and dynamics of supercooled liquids. <i>Journal of Chemical Physics</i> , 2006 , 125, 076102	3.9	103
162	The Equation of State of an Energy Landscape. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 7390-7397	3.4	96
161	Free volume in the hard sphere liquid. <i>Molecular Physics</i> , 1998 , 95, 289-297	1.7	95
160	Quantitative link between single-particle dynamics and static structure of supercooled liquids. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 18147-50	3.4	93

159	Anomalous structure and dynamics of the Gaussian-core fluid. <i>Physical Review E</i> , 2009 , 79, 031203	2.4	91
158	Concentrated dispersions of equilibrium protein nanoclusters that reversibly dissociate into active monomers. <i>ACS Nano</i> , 2012 , 6, 1357-69	16.7	89
157	Relationships between self-diffusivity, packing fraction, and excess entropy in simple bulk and confined fluids. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 10054-63	3.4	88
156	Synergistic formation and stabilization of oil-in-water emulsions by a weakly interacting mixture of zwitterionic surfactant and silica nanoparticles. <i>Langmuir</i> , 2014 , 30, 984-94	4	79
155	Modified montmorillonite clay microparticles for stable oil-in-seawater emulsions. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11502-13	9.5	73
154	Charged gold nanoparticles with essentially zero serum protein adsorption in undiluted fetal bovine serum. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7799-802	16.4	73
153	Steric stabilization of nanoparticles with grafted low molecular weight ligands in highly concentrated brines including divalent ions. <i>Soft Matter</i> , 2016 , 12, 2025-39	3.6	70
152	Inverse design of simple pairwise interactions with low-coordinated 3D lattice ground states. <i>Soft Matter</i> , 2013 , 9, 3866	3.6	68
151	Generalized Rosenfeld scalings for tracer diffusivities in not-so-simple fluids: mixtures and soft particles. <i>Physical Review E</i> , 2009 , 80, 061205	2.4	68
150	Inverse methods for material design. <i>AIChE Journal</i> , 2014 , 60, 2732-2740	3.6	65
149	Structural ensemble of an intrinsically disordered polypeptide. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 118-24	3.4	64
148	Does confining the hard-sphere fluid between hard walls change its average properties?. <i>Journal of Chemical Physics</i> , 2007 , 126, 244708	3.9	61
147	Predicting how nanoconfinement changes the relaxation time of a supercooled liquid. <i>Physical Review Letters</i> , 2013 , 111, 235901	7.4	60
146	Tuning density profiles and mobility of inhomogeneous fluids. <i>Physical Review Letters</i> , 2008 , 100, 106001	7.4	57
145	How short-range attractions impact the structural order, self-diffusivity, and viscosity of a fluid. <i>Journal of Chemical Physics</i> , 2007 , 127, 044502	3.9	57
144	A Simple Statistical Mechanical Model of Water. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 11829-11842	3.4	56
143	Theory of supercooled liquids and glasses: Energy landscape and statistical geometry perspectives. <i>Advances in Chemical Engineering</i> , 2001 , 28, 21-79	0.6	52
142	On the use of excess entropy scaling to describe the dynamic properties of water. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 10558-66	3.4	50

141	Predicting water phase diagram and liquid-state anomalies. <i>Journal of Chemical Physics</i> , 2002 , 117, 5101-5104	5.0	50
140	Equilibrium gold nanoclusters quenched with biodegradable polymers. <i>ACS Nano</i> , 2013 , 7, 239-51	16.7	49
139	Nonequilibrium hard-disk packings with controlled orientational order. <i>Journal of Chemical Physics</i> , 2000 , 113, 4844	3.9	46
138	Communication: Generalizing Rosenfeld's excess-entropy scaling to predict long-time diffusivity in dense fluids of Brownian particles: from hard to ultrasoft interactions. <i>Journal of Chemical Physics</i> , 2011 , 134, 081101	3.9	45
137	Available states and available space: static properties that predict self-diffusivity of confined fluids. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009 , 2009, P04006	1.9	41
136	Communication: Inverse design for self-assembly via on-the-fly optimization. <i>Journal of Chemical Physics</i> , 2016 , 145, 111101	3.9	41
135	Structural anomalies of fluids: origins in second and higher coordination shells. <i>Physical Review E</i> , 2008 , 77, 041201	2.4	39
134	Coarse-grained strategy for modeling protein stability in concentrated solutions. <i>Biophysical Journal</i> , 2005 , 89, 2372-84	2.9	38
133	Evidence that amorphous water below 160 K is not a fragile liquid. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 11033-6	3.4	38
132	Liquid Structure via Cavity Size Distributions. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 12028-12034	3.4	38
131	Inverse methods for design of soft materials. <i>Journal of Chemical Physics</i> , 2020 , 152, 140902	3.9	38
130	Probabilistic inverse design for self-assembling materials. <i>Journal of Chemical Physics</i> , 2017 , 146, 184103	3.9	37
129	Contrasting the Influence of Cationic Amino Acids on the Viscosity and Stability of a Highly Concentrated Monoclonal Antibody. <i>Pharmaceutical Research</i> , 2017 , 34, 193-207	4.5	37
128	On the use of excess entropy scaling to describe single-molecule and collective dynamic properties of hydrocarbon isomer fluids. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 16487-93	3.4	36
127	Linking Semiconductor Nanocrystals into Gel Networks through All-Inorganic Bridges. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14840-4	16.4	35
126	Reversible Self-Assembly of Glutathione-Coated Gold Nanoparticle Clusters via pH-Tunable Interactions. <i>Langmuir</i> , 2017 , 33, 12244-12253	4	34
125	Assembly of nothing: equilibrium fluids with designed structured porosity. <i>Soft Matter</i> , 2016 , 12, 2663-73	3.6	33
124	Coarse-grained strategy for modeling protein stability in concentrated solutions. II: phase behavior. <i>Biophysical Journal</i> , 2006 , 90, 1949-60	2.9	33

123	Heteropolymer collapse theory for protein folding in the pressure-temperature plane. <i>Biophysical Journal</i> , 2006 , 91, 2427-35	2.9	33
122	Transport in amorphous solid water films: implications for self-diffusivity. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 17987-97	3.4	33
121	The subtleties of water in small spaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 10139-40	11.5	33
120	Origin and detection of microstructural clustering in fluids with spatial-range competitive interactions. <i>Physical Review E</i> , 2015 , 91, 042312	2.4	31
119	Composition and concentration anomalies for structure and dynamics of Gaussian-core mixtures. <i>Journal of Chemical Physics</i> , 2009 , 131, 161101	3.9	31
118	Nanocrystal superlattices that exhibit improved order on heating: an example of inverse melting?. <i>Faraday Discussions</i> , 2015 , 181, 181-92	3.6	30
117	Confinement, entropy, and single-particle dynamics of equilibrium hard-sphere mixtures. <i>Journal of Chemical Physics</i> , 2007 , 127, 154513	3.9	30
116	Configurational Properties and Corresponding States in Simple Fluids and Water. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 5106-5116	3.4	30
115	Equilibrium cluster fluids: pair interactions via inverse design. <i>Soft Matter</i> , 2015 , 11, 9342-54	3.6	29
114	High concentration tangential flow ultrafiltration of stable monoclonal antibody solutions with low viscosities. <i>Journal of Membrane Science</i> , 2016 , 508, 113-126	9.6	29
113	Dimensionality and Design of Isotropic Interactions that Stabilize Honeycomb, Square, Simple Cubic, and Diamond Lattices. <i>Physical Review X</i> , 2014 , 4,	9.1	29
112	High interfacial activity of polymers "grafted through" functionalized iron oxide nanoparticle clusters. <i>Langmuir</i> , 2014 , 30, 10188-96	4	29
111	Excess entropy scaling of dynamic quantities for fluids of dumbbell-shaped particles. <i>Journal of Chemical Physics</i> , 2010 , 133, 104506	3.9	29
110	Polymer Conductivity through Particle Connectivity. <i>Chemistry of Materials</i> , 2009 , 21, 1948-1954	9.6	29
109	Ideal glass transitions in thin films: An energy landscape perspective. <i>Journal of Chemical Physics</i> , 2003 , 119, 1897-1900	3.9	29
108	On the formation of equilibrium gels via a macroscopic bond limitation. <i>Journal of Chemical Physics</i> , 2016 , 145, 074906	3.9	29
107	Orientationally Ordered Silicon Nanocrystal Cuboctahedra in Superlattices. <i>Nano Letters</i> , 2016 , 16, 7814-7821	11.5	28
106	Tunable equilibrium nanocluster dispersions at high protein concentrations. <i>Soft Matter</i> , 2013 , 9, 1766-1771	3.7	28

105	Mapping between long-time molecular and Brownian dynamics. <i>Soft Matter</i> , 2011 , 7, 9859	3.6	28
104	Density fluctuations in many-body systems. <i>Physical Review E</i> , 1998 , 58, 7369-7380	2.4	28
103	Fluids with competing interactions. I. Decoding the structure factor to detect and characterize self-limited clustering. <i>Journal of Chemical Physics</i> , 2016 , 145, 064902	3.9	27
102	Impact of surface roughness on diffusion of confined fluids. <i>Journal of Chemical Physics</i> , 2011 , 135, 154502	3.2	25
101	Coarse-grained strategy for modeling protein stability in concentrated solutions. III: directional protein interactions. <i>Biophysical Journal</i> , 2007 , 92, 4316-24	2.9	24
100	Iso-g(2) Processes in Equilibrium Statistical Mechanics \square <i>Journal of Physical Chemistry B</i> , 2001 , 105, 6592-6597	3.1	24
99	Unsupervised machine learning for detection of phase transitions in off-lattice systems. I. Foundations. <i>Journal of Chemical Physics</i> , 2018 , 149, 194109	3.9	24
98	Designing convex repulsive pair potentials that favor assembly of kagome and snub square lattices. <i>Journal of Chemical Physics</i> , 2016 , 145, 054901	3.9	23
97	Interactions and design rules for assembly of porous colloidal mesophases. <i>Soft Matter</i> , 2017 , 13, 1335-1343	3.8	22
96	Improving Viscosity and Stability of a Highly Concentrated Monoclonal Antibody Solution with Concentrated Proline. <i>Pharmaceutical Research</i> , 2018 , 35, 133	4.5	22
95	Attractions, water structure, and thermodynamics of hydrophobic polymer collapse. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 13193-6	3.4	22
94	Using available volume to predict fluid diffusivity in random media. <i>Physical Review E</i> , 2006 , 74, 040102	2.4	22
93	Excess-entropy scaling of dynamics for a confined fluid of dumbbell-shaped particles. <i>Physical Review E</i> , 2010 , 82, 041201	2.4	21
92	A simple analytical model of water. <i>Biophysical Chemistry</i> , 2003 , 105, 449-59	3.5	21
91	Inverse design of multicomponent assemblies. <i>Journal of Chemical Physics</i> , 2018 , 148, 104509	3.9	20
90	Viscosity Reduction of a Concentrated Monoclonal Antibody with Arginine[HCl and Arginine[Glutamate. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 11225-11234	3.9	20
89	Gelation of plasmonic metal oxide nanocrystals by polymer-induced depletion attractions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8925-8930	11.5	20
88	Using Energy Landscapes To Predict the Properties of Thin Films \square <i>Journal of Physical Chemistry B</i> , 2004 , 108, 19769-19779	3.4	20

87	Formation of Small Gold Nanoparticle Chains with High NIR Extinction through Bridging with Calcium Ions. <i>Langmuir</i> , 2016 , 32, 1127-38	4	19
86	Protein-Protein Interactions of Highly Concentrated Monoclonal Antibody Solutions via Static Light Scattering and Influence on the Viscosity. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 739-755	3.4	19
85	Structure and phase behavior of polymer-linked colloidal gels. <i>Journal of Chemical Physics</i> , 2019 , 151, 124901	3.9	18
84	The statistical geometry of voids in liquids. <i>Fluid Phase Equilibria</i> , 1999 , 158-160, 549-556	2.5	18
83	Communication: From close-packed to topologically close-packed: Formation of Laves phases in moderately polydisperse hard-sphere mixtures. <i>Journal of Chemical Physics</i> , 2018 , 148, 191101	3.9	17
82	Charge Shielding Prevents Aggregation of Supercharged GFP Variants at High Protein Concentration. <i>Molecular Pharmaceutics</i> , 2017 , 14, 3269-3280	5.6	17
81	Designing pairwise interactions that stabilize open crystals: Truncated square and truncated hexagonal lattices. <i>Journal of Chemical Physics</i> , 2017 , 146, 144501	3.9	16
80	Quenched Assembly of NIR-Active Gold Nanoclusters Capped with Strongly Bound Ligands by Tuning Particle Charge via pH and Salinity. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 14291-14298	3.8	16
79	X-ray Scattering and Coarse-Grained Simulations for Clustering and Interactions of Monoclonal Antibodies at High Concentrations. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 5274-5290	3.4	15
78	Breadth versus depth: Interactions that stabilize particle assemblies to changes in density or temperature. <i>Journal of Chemical Physics</i> , 2016 , 144, 084502	3.9	15
77	Implications of the effective one-component analysis of pair correlations in colloidal fluids with polydispersity. <i>Journal of Chemical Physics</i> , 2011 , 135, 124513	3.9	15
76	Putting the squeeze on cavities in liquids: Quantifying pressure effects on solvation using simulations and scaled-particle theory. <i>Journal of Chemical Physics</i> , 2011 , 134, 014507	3.9	15
75	Model for the free-volume distributions of equilibrium fluids. <i>Journal of Chemical Physics</i> , 2006 , 124, 214502	3.9	15
74	Assembly of particle strings via isotropic potentials. <i>Journal of Chemical Physics</i> , 2019 , 150, 124903	3.9	14
73	Communication: Phase behavior of materials with isotropic interactions designed by inverse strategies to favor diamond and simple cubic lattice ground states. <i>Journal of Chemical Physics</i> , 2013 , 139, 141102	3.9	14
72	Enhancing tracer diffusivity by tuning interparticle interactions and coordination shell structure. <i>Soft Matter</i> , 2012 , 8, 4083-4089	3.6	14
71	Residual multiparticle entropy does not generally change sign near freezing. <i>Journal of Chemical Physics</i> , 2008 , 128, 161101	3.9	14
70	Unsupervised machine learning for detection of phase transitions in off-lattice systems. II. Applications. <i>Journal of Chemical Physics</i> , 2018 , 149, 194110	3.9	14

69	Structure, thermodynamics, and position-dependent diffusivity in fluids with sinusoidal density variations. <i>Langmuir</i> , 2014 , 30, 8247-52	4	13
68	Connection between thermodynamics and dynamics of simple fluids in highly attractive pores. <i>Langmuir</i> , 2013 , 29, 14527-35	4	13
67	Insights into crowding effects on protein stability from a coarse-grained model. <i>Journal of Biomechanical Engineering</i> , 2009 , 131, 071002	2.1	13
66	Assembly of Linked Nanocrystal Colloids by Reversible Covalent Bonds. <i>Chemistry of Materials</i> , 2020 , 32, 10235-10245	9.6	13
65	Inverse Design of Self-Assembling Frank-Kasper Phases and Insights Into Emergent Quasicrystals. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 5547-5556	3.4	12
64	Fluids with competing interactions. II. Validating a free energy model for equilibrium cluster size. <i>Journal of Chemical Physics</i> , 2016 , 145, 064903	3.9	12
63	Triangle Distribution and Equation of State for Classical Rigid Disks. <i>Journal of Statistical Physics</i> , 2000 , 100, 49-72	1.5	12
62	Indocyanine Green J Aggregates in Polymersomes for Near-Infrared Photoacoustic Imaging. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46437-46450	9.5	12
61	Colloidal Nanocrystal Gels from Thermodynamic Principles. <i>Accounts of Chemical Research</i> , 2021 , 54, 798-807	24.3	12
60	Communication: Local structure-mobility relationships of confined fluids reverse upon supercooling. <i>Journal of Chemical Physics</i> , 2015 , 142, 161102	3.9	11
59	Cooling Dodecanethiol-Capped 2 nm Diameter Gold Nanocrystal Superlattices below Room Temperature Induces a Reversible OrderDisorder Structure Transition. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27682-27687	3.8	11
58	Structural signatures of mobility on intermediate time scales in a supercooled fluid. <i>Journal of Chemical Physics</i> , 2010 , 132, 184503	3.9	11
57	Breakup of Oil Jets into Droplets in Seawater with Environmentally Benign Nanoparticle and Surfactant Dispersants. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 4243-4251	3.9	10
56	Coarse-Grained Molecular Dynamics Simulations for Understanding the Impact of Short-Range Anisotropic Attractions on Structure and Viscosity of Concentrated Monoclonal Antibody Solutions. <i>Molecular Pharmaceutics</i> , 2020 , 17, 1748-1756	5.6	10
55	Connection Between Thermodynamics and Dynamics of Simple Fluids in Pores: Impact of Fluid-Fluid Interaction Range and Fluid-Solid Interaction Strength. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 16316-16327	3.8	9
54	Note: Position-dependent and pair diffusivity profiles from steady-state solutions of color reaction-counterdiffusion problems. <i>Journal of Chemical Physics</i> , 2014 , 141, 046101	3.9	9
53	Antibody nanoparticle dispersions formed with mixtures of crowding molecules retain activity and in vivo bioavailability. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 3763-78	3.9	9
52	Free volume in the hard sphere liquid. <i>Molecular Physics</i> , 1998 , 95, 289-297	1.7	9

51	Influence of morphology of colloidal nanoparticle gels on ion transport and rheology. <i>Journal of Chemical Physics</i> , 2019 , 150, 214903	3.9	8
50	Connecting Solute Diffusion to Morphology in Triblock Copolymer Membranes. <i>Macromolecules</i> , 2020 , 53, 2336-2343	5.5	8
49	Free volumes and the anomalous self-diffusivity of attractive colloids. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5166-9	3.4	8
48	Relating Collective Diffusion, Protein-Protein Interactions, and Viscosity of Highly Concentrated Monoclonal Antibodies through Dynamic Light Scattering. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 22456-22471	3.9	7
47	Phase diagram for two-dimensional layer of soft particles. <i>Soft Matter</i> , 2019 , 15, 4162-4169	3.6	7
46	Universal Gelation of Metal Oxide Nanocrystals via Depletion Attractions. <i>Nano Letters</i> , 2020 , 20, 4007-4013	4.1	7
45	Self-diffusion of a highly concentrated monoclonal antibody by fluorescence correlation spectroscopy: insight into protein-protein interactions and self-association. <i>Soft Matter</i> , 2019 , 15, 6660-6676	3.6	7
44	Design of two-dimensional particle assemblies using isotropic pair interactions with an attractive well. <i>AIP Advances</i> , 2017 , 7, 115307	1.5	7
43	Linking Semiconductor Nanocrystals into Gel Networks through All-Inorganic Bridges. <i>Angewandte Chemie</i> , 2015 , 127, 15053-15057	3.6	7
42	Effect of Dilute Nitric Acid on Crystallization and Fracture of Amorphous Solid Water Films. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 10438-10447	3.8	7
41	Protein-Protein Interactions, Clustering, and Rheology for Bovine IgG up to High Concentrations Characterized by Small Angle X-Ray Scattering and Molecular Dynamics Simulations. <i>Journal of Pharmaceutical Sciences</i> , 2020 , 109, 696-708	3.9	7
40	Transport Mechanisms Underlying Ionic Conductivity in Nanoparticle-Based Single-Ion Electrolytes. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6970-6975	6.4	7
39	Prediction and Optimization of Ion Transport Characteristics in Nanoparticle-Based Electrolytes Using Convolutional Neural Networks. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 4838-4849	3.4	7
38	The role of pressure in inverse design for assembly. <i>Journal of Chemical Physics</i> , 2019 , 151, 104104	3.9	7
37	Effects of linker flexibility on phase behavior and structure of linked colloidal gels. <i>Journal of Chemical Physics</i> , 2021 , 154, 074901	3.9	7
36	Gold nanoparticles with high densities of small protuberances on nanocluster cores with strong NIR extinction. <i>RSC Advances</i> , 2015 , 5, 104674-104687	3.7	6
35	Shear-rate-dependent structural order and viscosity of a fluid with short-range attractions. <i>Physical Review E</i> , 2008 , 78, 010201	2.4	6
34	Influence of pore morphology on the diffusion of water in triblock copolymer membranes. <i>Journal of Chemical Physics</i> , 2020 , 152, 014904	3.9	6

33	Impact of solvent granularity and layering on tracer hydrodynamics in confinement. <i>Soft Matter</i> , 2016 , 12, 9561-9574	3.6	6
32	Control of Primary Particle Spacing in Gold Nanoparticle Clusters for Both High NIR Extinction and Full Reversibility. <i>Langmuir</i> , 2017 , 33, 3413-3426	4	5
31	Enhancing Stability and Reducing Viscosity of a Monoclonal Antibody With Cosolutes by Weakening Protein-Protein Interactions. <i>Journal of Pharmaceutical Sciences</i> , 2019 , 108, 2517-2526	3.9	5
30	Quantized bounding volume hierarchies for neighbor search in molecular simulations on graphics processing units. <i>Computational Materials Science</i> , 2019 , 164, 139-146	3.2	5
29	Cross-stream migration of a Brownian droplet in a polymer solution under Poiseuille flow. <i>Soft Matter</i> , 2019 , 15, 3168-3178	3.6	5
28	Tuning structure and mobility of solvation shells surrounding tracer additives. <i>Journal of Chemical Physics</i> , 2015 , 142, 124501	3.9	5
27	Graphoepitaxy for pattern multiplication of nanoparticle monolayers. <i>Physical Review Letters</i> , 2014 , 113, 085503	7.4	5
26	Communication: Fine discretization of pair interactions and an approximate analytical strategy for predicting equilibrium behavior of complex fluids. <i>Journal of Chemical Physics</i> , 2013 , 139, 161102	3.9	5
25	Equation of state of the rigid disk fluid from its triangle distribution. <i>Journal of Chemical Physics</i> , 2000 , 113, 10186-10190	3.9	5
24	Colorimetric quantification of linking in thermoreversible nanocrystal gel assemblies.. <i>Science Advances</i> , 2022 , 8, eabm7364	14.3	5
23	Wertheim's thermodynamic perturbation theory with double-bond association and its application to colloid-linker mixtures. <i>Journal of Chemical Physics</i> , 2021 , 154, 024905	3.9	5
22	A Conversation with John McKetta. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2017 , 8, 1-11	8.9	4
21	How Local and Average Particle Diffusivities of Inhomogeneous Fluids Depend on Microscopic Dynamics. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 9103-13	3.4	4
20	Response to Comment on Residual multiparticle entropy does not generally change sign near freezing[J. Chem. Phys. 130, 037101 (2009)]. <i>Journal of Chemical Physics</i> , 2009 , 130, 037102	3.9	4
19	Computing Free Volume, Structural Order, and Entropy of Liquids and Glasses. <i>Reviews in Computational Chemistry</i> , 2007 , 125-158		4
18	Volatile diffusional character of cytoplasm. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25606-7	3.4	4
17	Response to Comment on A simple molecular thermodynamic theory of hydrophobic hydration[J. Chem. Phys. 119, 10448 (2003)]. <i>Journal of Chemical Physics</i> , 2003 , 119, 10450-10451	3.9	4
16	Graphoepitaxy for translational and orientational ordering of monolayers of rectangular nanoparticles. <i>Physical Review E</i> , 2016 , 93, 032606	2.4	3

15	Effects of protein engineering and rational mutagenesis on crystal lattice of single chain antibody fragments. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014 , 82, 1884-95	4.2	3
14	RELATIONSHIP BETWEEN SHEAR VISCOSITY AND STRUCTURE OF A MODEL COLLOIDAL SUSPENSION. <i>Chemical Engineering Communications</i> , 2009 , 197, 63-75	2.2	3
13	Comment on [Observations on an equation of state for water confined in narrow slit-pores]. <i>J. Chem. Phys.</i> 116, 2565 (2002)]. <i>Journal of Chemical Physics</i> , 2002 , 117, 8162-8163	3.9	3
12	Position-Dependent Dynamics Explain Pore-Averaged Diffusion in Strongly Attractive Adsorptive Systems. <i>Langmuir</i> , 2017 , 33, 13955-13963	4	2
11	Plasmonic biodegradable gold nanoclusters with high NIR-absorbance for biomedical imaging 2014 ,		2
10	Analytical model for studying how environmental factors influence protein conformational stability in solution. <i>Journal of Chemical Physics</i> , 2006 , 125, 224903	3.9	2
9	Web applet for predicting structure and thermodynamics of complex fluids. <i>American Journal of Physics</i> , 2015 , 83, 219-222	0.7	1
8	Predicting the structure of fluids with piecewise constant interactions: Comparing the accuracy of five efficient integral equation theories. <i>Physical Review E</i> , 2015 , 91, 043307	2.4	1
7	Intrinsic vulnerabilities to mechanical failure in nanoscale films. <i>Mechanics of Materials</i> , 2006 , 38, 924-933	3.3	1
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4	Machine Learning-Assisted Design of Material Properties.. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2022 ,	8.9	1
3	Geometric model of crack-templated networks for transparent conductive films. <i>Applied Physics Letters</i> , 2022 , 120, 211108	3.4	1
2	Stability of force-driven shear flows in nonequilibrium molecular simulations with periodic boundaries. <i>Journal of Chemical Physics</i> , 2020 , 152, 214113	3.9	
1	Concentration and crowding effects on protein stability from a coarse-grained model	1-25	