Thomas M Truskett

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5557753/publications.pdf

Version: 2024-02-01

178 papers	8,124 citations	57631 44 h-index	56606 83 g-index
186 all docs	186 docs citations	186 times ranked	6251 citing authors

#	Article	IF	Citations
1	Is Random Close Packing of Spheres Well Defined?. Physical Review Letters, 2000, 84, 2064-2067.	2.9	1,173
2	Modeling Water, the Hydrophobic Effect, and Ion Solvation. Annual Review of Biophysics and Biomolecular Structure, 2005, 34, 173-199.	18.3	363
3	Hydrophobic hydration from small to large lengthscales: Understanding and manipulating the crossover. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9475-9480.	3.3	268
4	Towards a quantification of disorder in materials: Distinguishing equilibrium and glassy sphere packings. Physical Review E, 2000, 62, 993-1001.	0.8	258
5	Layering and Position-Dependent Diffusive Dynamics of Confined Fluids. Physical Review Letters, 2008, 100, 145901.	2.9	161
6	A single-bond approach to orientation-dependent interactions and its implications for liquid water. Journal of Chemical Physics, 1999, 111, 2647-2656.	1.2	157
7	Excess-entropy-based anomalies for a waterlike fluid. Journal of Chemical Physics, 2006, 125, 244502.	1.2	148
8	Structural precursor to freezing in the hard-disk and hard-sphere systems. Physical Review E, 1998, 58, 3083-3088.	0.8	147
9	Thermodynamic implications of confinement for a waterlike fluid. Journal of Chemical Physics, 2001, 114, 2401-2418.	1.2	143
10	Thermodynamics Predicts How Confinement Modifies the Dynamics of the Equilibrium Hard-Sphere Fluid. Physical Review Letters, 2006, 96, 177804.	2.9	133
11	The Kauzmann Paradox Revisitedâ€. Journal of Physical Chemistry B, 2001, 105, 11809-11816.	1.2	131
12	A simple molecular thermodynamic theory of hydrophobic hydration. Journal of Chemical Physics, 2002, 116, 2907-2921.	1.2	118
13	Effects of lengthscales and attractions on the collapse of hydrophobic polymers in water. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 733-738.	3.3	113
14	Free volume in the hard sphere liquid. Molecular Physics, 1998, 95, 289-297.	0.8	112
15	Relationship between thermodynamics and dynamics of supercooled liquids. Journal of Chemical Physics, 2006, 125, 076102.	1.2	106
16	Concentrated Dispersions of Equilibrium Protein Nanoclusters That Reversibly Dissociate into Active Monomers. ACS Nano, 2012, 6, 1357-1369.	7.3	104
17	The Equation of State of an Energy Landscape. Journal of Physical Chemistry B, 1999, 103, 7390-7397.	1.2	103
18	Anomalous structure and dynamics of the Gaussian-core fluid. Physical Review E, 2009, 79, 031203.	0.8	100

#	Article	IF	Citations
19	Steric stabilization of nanoparticles with grafted low molecular weight ligands in highly concentrated brines including divalent ions. Soft Matter, 2016, 12, 2025-2039.	1.2	99
20	Quantitative Link between Single-Particle Dynamics and Static Structure of Supercooled Liquids. Journal of Physical Chemistry B, 2006, 110, 18147-18150.	1.2	95
21	Relationships between Self-Diffusivity, Packing Fraction, and Excess Entropy in Simple Bulk and Confined Fluids. Journal of Physical Chemistry B, 2007, 111, 10054-10063.	1.2	94
22	Synergistic Formation and Stabilization of Oil-in-Water Emulsions by a Weakly Interacting Mixture of Zwitterionic Surfactant and Silica Nanoparticles. Langmuir, 2014, 30, 984-994.	1.6	90
23	Generalized Rosenfeld scalings for tracer diffusivities in not-so-simple fluids: Mixtures and soft particles. Physical Review E, 2009, 80, 061205.	0.8	79
24	Charged Gold Nanoparticles with Essentially Zero Serum Protein Adsorption in Undiluted Fetal Bovine Serum. Journal of the American Chemical Society, 2013, 135, 7799-7802.	6.6	79
25	Modified Montmorillonite Clay Microparticles for Stable Oil-in-Seawater Emulsions. ACS Applied Materials & Interfaces, 2014, 6, 11502-11513.	4.0	78
26	Inverse methods for material design. AICHE Journal, 2014, 60, 2732-2740.	1.8	77
27	Inverse design of simple pairwise interactions with low-coordinated 3D lattice ground states. Soft Matter, 2013, 9, 3866.	1.2	74
28	Structural Ensemble of an Intrinsically Disordered Polypeptide. Journal of Physical Chemistry B, 2013, 117, 118-124.	1.2	72
29	Does confining the hard-sphere fluid between hard walls change its average properties?. Journal of Chemical Physics, 2007, 126, 244708.	1.2	65
30	Predicting How Nanoconfinement Changes the Relaxation Time of a Supercooled Liquid. Physical Review Letters, 2013, 111, 235901.	2.9	65
31	Inverse methods for design of soft materials. Journal of Chemical Physics, 2020, 152, 140902.	1.2	63
32	On the Use of Excess Entropy Scaling to Describe the Dynamic Properties of Water. Journal of Physical Chemistry B, 2010, 114, 10558-10566.	1.2	61
33	Tuning Density Profiles and Mobility of Inhomogeneous Fluids. Physical Review Letters, 2008, 100, 106001.	2.9	60
34	How short-range attractions impact the structural order, self-diffusivity, and viscosity of a fluid. Journal of Chemical Physics, 2007, 127, 044502.	1.2	59
35	Theory of supercooled liquids and glasses: Energy landscape and statistical geometry perspectives. Advances in Chemical Engineering, 2001, 28, 21-79.	0.5	58
36	A Simple Statistical Mechanical Model of Water. Journal of Physical Chemistry B, 2002, 106, 11829-11842.	1.2	58

#	Article	IF	Citations
37	Predicting waterâ€™s phase diagram and liquid-state anomalies. Journal of Chemical Physics, 2002, 117, 5101-5104.	1.2	54
38	Communication: Inverse design for self-assembly via on-the-fly optimization. Journal of Chemical Physics, 2016, 145, .	1.2	52
39	Nonequilibrium hard-disk packings with controlled orientational order. Journal of Chemical Physics, 2000, 113, 4844.	1.2	51
40	Communication: Generalizing Rosenfeld's excess-entropy scaling to predict long-time diffusivity in dense fluids of Brownian particles: From hard to ultrasoft interactions. Journal of Chemical Physics, 2011, 134, 081101.	1.2	51
41	Equilibrium Gold Nanoclusters Quenched with Biodegradable Polymers. ACS Nano, 2013, 7, 239-251.	7.3	51
42	Contrasting the Influence of Cationic Amino Acids on the Viscosity and Stability of a Highly Concentrated Monoclonal Antibody. Pharmaceutical Research, 2017, 34, 193-207.	1.7	50
43	Indocyanine Green J Aggregates in Polymersomes for Near-Infrared Photoacoustic Imaging. ACS Applied Materials & Interfaces, 2019, 11, 46437-46450.	4.0	46
44	Linking Semiconductor Nanocrystals into Gel Networks through Allâ€inorganic Bridges. Angewandte Chemie - International Edition, 2015, 54, 14840-14844.	7.2	45
45	Probabilistic inverse design for self-assembling materials. Journal of Chemical Physics, 2017, 146, .	1.2	44
46	Available states and available space: static properties that predict self-diffusivity of confined fluids. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P04006.	0.9	43
47	Reversible Self-Assembly of Glutathione-Coated Gold Nanoparticle Clusters via pH-Tunable Interactions. Langmuir, 2017, 33, 12244-12253.	1.6	43
48	Liquid Structure via Cavity Size Distributions. Journal of Physical Chemistry B, 2000, 104, 12028-12034.	1.2	41
49	Structural anomalies of fluids: Origins in second and higher coordination shells. Physical Review E, 2008, 77, 041201.	0.8	41
50	Assembly of nothing: equilibrium fluids with designed structured porosity. Soft Matter, 2016, 12, 2663-2667.	1.2	41
51	Coarse-Grained Strategy for Modeling Protein Stability in Concentrated Solutions. Biophysical Journal, 2005, 89, 2372-2384.	0.2	40
52	On the Use of Excess Entropy Scaling To Describe Single-Molecule and Collective Dynamic Properties of Hydrocarbon Isomer Fluids. Journal of Physical Chemistry B, 2010, 114, 16487-16493.	1.2	40
53	High concentration tangential flow ultrafiltration of stable monoclonal antibody solutions with low viscosities. Journal of Membrane Science, 2016, 508, 113-126.	4.1	40
54	The subtleties of water in small spaces. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10139-10140.	3.3	38

#	Article	IF	Citations
55	Evidence that Amorphous Water below 160 K Is Not a Fragile Liquid. Journal of Physical Chemistry B, 2006, 110, 11033-11036.	1.2	38
56	Improving Viscosity and Stability of a Highly Concentrated Monoclonal Antibody Solution with Concentrated Proline. Pharmaceutical Research, 2018, 35, 133.	1.7	38
57	On the formation of equilibrium gels via a macroscopic bond limitation. Journal of Chemical Physics, 2016, 145, 074906.	1.2	37
58	Heteropolymer Collapse Theory for Protein Folding in the Pressure-Temperature Plane. Biophysical Journal, 2006, 91, 2427-2435.	0.2	36
59	Origin and detection of microstructural clustering in fluids with spatial-range competitive interactions. Physical Review E, 2015, 91, 042312.	0.8	36
60	Unsupervised machine learning for detection of phase transitions in off-lattice systems. I. Foundations. Journal of Chemical Physics, 2018, 149, 194109.	1.2	36
61	Coarse-Grained Strategy for Modeling Protein Stability in Concentrated Solutions. II: Phase Behavior. Biophysical Journal, 2006, 90, 1949-1960.	0.2	34
62	Transport in Amorphous Solid Water Films:Â Implications for Self-Diffusivity. Journal of Physical Chemistry B, 2006, 110, 17987-17997.	1.2	34
63	Nanocrystal superlattices that exhibit improved order on heating: an example of inverse melting?. Faraday Discussions, 2015, 181, 181-192.	1.6	34
64	Excess entropy scaling of dynamic quantities for fluids of dumbbell-shaped particles. Journal of Chemical Physics, 2010, 133, 104506.	1.2	33
65	Orientationally Ordered Silicon Nanocrystal Cuboctahedra in Superlattices. Nano Letters, 2016, 16, 7814-7821.	4.5	33
66	Confinement, entropy, and single-particle dynamics of equilibrium hard-sphere mixtures. Journal of Chemical Physics, 2007, 127, 154513.	1.2	32
67	Dimensionality and Design of Isotropic Interactions that Stabilize Honeycomb, Square, Simple Cubic, and Diamond Lattices. Physical Review X, 2014, 4, .	2.8	32
68	Equilibrium cluster fluids: pair interactions via inverse design. Soft Matter, 2015, 11, 9342-9354.	1.2	32
69	Designing convex repulsive pair potentials that favor assembly of kagome and snub square lattices. Journal of Chemical Physics, 2016, 145, 054901.	1.2	32
70	Gelation of plasmonic metal oxide nanocrystals by polymer-induced depletion attractions. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8925-8930.	3.3	32
71	Proteinâ€“Protein Interactions of Highly Concentrated Monoclonal Antibody Solutions via Static Light Scattering and Influence on the Viscosity. Journal of Physical Chemistry B, 2019, 123, 739-755.	1.2	32
72	Composition and concentration anomalies for structure and dynamics of Gaussian-core mixtures. Journal of Chemical Physics, 2009, 131, 161101.	1.2	31

#	Article	IF	Citations
73	High Interfacial Activity of Polymers â€œGrafted throughâ€•Functionalized Iron Oxide Nanoparticle Clusters. Langmuir, 2014, 30, 10188-10196.	1.6	31
74	Fluids with competing interactions. I. Decoding the structure factor to detect and characterize self-limited clustering. Journal of Chemical Physics, 2016, 145, .	1.2	31
75	Density fluctuations in many-body systems. Physical Review E, 1998, 58, 7369-7380.	0.8	30
76	Configurational Properties and Corresponding States in Simple Fluids and Water. Journal of Physical Chemistry B, 1999, 103, 5106-5116.	1.2	30
77	Polymer Conductivity through Particle Connectivity. Chemistry of Materials, 2009, 21, 1948-1954.	3.2	30
78	Mapping between long-time molecular and Brownian dynamics. Soft Matter, 2011, 7, 9859.	1.2	30
79	Impact of surface roughness on diffusion of confined fluids. Journal of Chemical Physics, 2011, 135, 154502.	1.2	30
80	Tunable equilibrium nanocluster dispersions at high protein concentrations. Soft Matter, 2013, 9, 1766-1771.	1.2	30
81	Viscosity Reduction of a Concentrated Monoclonal Antibody with ArginineÂ·HCl and ArginineÂ·Glutamate. Industrial & Engineering Chemistry Research, 2016, 55, 11225-11234.	1.8	30
82	Ideal glass transitions in thin films: An energy landscape perspective. Journal of Chemical Physics, 2003, 119, 1897-1900.	1.2	29
83	Interactions and design rules for assembly of porous colloidal mesophases. Soft Matter, 2017, 13, 1335-1343.	1.2	29
84	Structure and phase behavior of polymer-linked colloidal gels. Journal of Chemical Physics, 2019, 151, 124901.	1.2	28
85	Charge Shielding Prevents Aggregation of Supercharged GFP Variants at High Protein Concentration. Molecular Pharmaceutics, 2017, 14, 3269-3280.	2.3	27
86	Inverse design of multicomponent assemblies. Journal of Chemical Physics, 2018, 148, 104509.	1.2	27
87	X-ray Scattering and Coarse-Grained Simulations for Clustering and Interactions of Monoclonal Antibodies at High Concentrations. Journal of Physical Chemistry B, 2019, 123, 5274-5290.	1.2	27
88	Assembly of Linked Nanocrystal Colloids by Reversible Covalent Bonds. Chemistry of Materials, 2020, 32, 10235-10245.	3.2	27
89	Assembling Inorganic Nanocrystal Gels. Nano Letters, 2022, 22, 1457-1466.	4.5	27
90	Coarse-Grained Molecular Dynamics Simulations for Understanding the Impact of Short-Range Anisotropic Attractions on Structure and Viscosity of Concentrated Monoclonal Antibody Solutions. Molecular Pharmaceutics, 2020, 17, 1748-1756.	2.3	26

#	Article	IF	Citations
91	Colloidal Nanocrystal Gels from Thermodynamic Principles. Accounts of Chemical Research, 2021, 54, 798-807.	7.6	26
92	Iso-g(2)Processes in Equilibrium Statistical Mechanicsâ€. Journal of Physical Chemistry B, 2001, 105, 6592-6597.	1.2	25
93	Coarse-Grained Strategy for Modeling Protein Stability in Concentrated Solutions. III: Directional Protein Interactions. Biophysical Journal, 2007, 92, 4316-4324.	0.2	25
94	Communication: From close-packed to topologically close-packed: Formation of Laves phases in moderately polydisperse hard-sphere mixtures. Journal of Chemical Physics, 2018, 148, 191101.	1.2	25
95	Free volume in the hard sphere liquid. Molecular Physics, 1998, 95, 289-297.	0.8	25
96	Attractions, Water Structure, and Thermodynamics of Hydrophobic Polymer Collapse. Journal of Physical Chemistry B, 2008, 112, 13193-13196.	1.2	23
97	Unsupervised machine learning for detection of phase transitions in off-lattice systems. II. Applications. Journal of Chemical Physics, 2018, 149, 194110.	1.2	23
98	A simple analytical model of water. Biophysical Chemistry, 2003, 105, 449-459.	1.5	22
99	Using available volume to predict fluid diffusivity in random media. Physical Review E, 2006, 74, 040102.	0.8	22
100	Excess-entropy scaling of dynamics for a confined fluid of dumbbell-shaped particles. Physical Review E, 2010, 82, 041201.	0.8	22
101	Formation of Small Gold Nanoparticle Chains with High NIR Extinction through Bridging with Calcium Ions. Langmuir, 2016, 32, 1127-1138.	1.6	21
102	Using Energy Landscapes To Predict the Properties of Thin Filmsâ€. Journal of Physical Chemistry B, 2004, 108, 19769-19779.	1.2	20
103	Inverse Design of Self-Assembling Frank-Kasper Phases and Insights Into Emergent Quasicrystals. Journal of Physical Chemistry B, 2018, 122, 5547-5556.	1.2	20
104	Assembly of particle strings via isotropic potentials. Journal of Chemical Physics, 2019, 150, 124903.	1.2	20
105	The statistical geometry of voids in liquids. Fluid Phase Equilibria, 1999, 158-160, 549-556.	1.4	19
106	Protein-Protein Interactions, Clustering, and Rheology for Bovine IgG up to High Concentrations Characterized by Small Angle X-Ray Scattering and Molecular Dynamics Simulations. Journal of Pharmaceutical Sciences, 2020, 109, 696-708.	1.6	19
107	Designing pairwise interactions that stabilize open crystals: Truncated square and truncated hexagonal lattices. Journal of Chemical Physics, 2017, 146, 144501.	1.2	17
108	Triangle Distribution and Equation of State for Classical Rigid Disks. Journal of Statistical Physics, 2000, 100, 49-72.	0.5	16

#	Article	IF	Citations
109	Implications of the effective one-component analysis of pair correlations in colloidal fluids with polydispersity. Journal of Chemical Physics, 2011, 135, 124513.	1.2	16
110	Quenched Assembly of NIR-Active Gold Nanoclusters Capped with Strongly Bound Ligands by Tuning Particle Charge via pH and Salinity. Journal of Physical Chemistry C, 2014, 118, 14291-14298.	1.5	16
111	Enhancing Stability and Reducing Viscosity of a Monoclonal Antibody With Cosolutes by Weakening Protein-Protein Interactions. Journal of Pharmaceutical Sciences, 2019, 108, 2517-2526.	1.6	16
112	Universal Gelation of Metal Oxide Nanocrystals via Depletion Attractions. Nano Letters, 2020, 20, 4007-4013.	4.5	16
113	Model for the free-volume distributions of equilibrium fluids. Journal of Chemical Physics, 2006, 124, 214502.	1.2	15
114	Structural signatures of mobility on intermediate time scales in a supercooled fluid. Journal of Chemical Physics, 2010, 132, .	1.2	15
115	Putting the squeeze on cavities in liquids: Quantifying pressure effects on solvation using simulations and scaled-particle theory. Journal of Chemical Physics, 2011, 134, 014507.	1.2	15
116	Connection between Thermodynamics and Dynamics of Simple Fluids in Highly Attractive Pores. Langmuir, 2013, 29, 14527-14535.	1.6	15
117	Breadth versus depth: Interactions that stabilize particle assemblies to changes in density or temperature. Journal of Chemical Physics, 2016, 144, 084502.	1.2	15
118	Relating Collective Diffusion, Proteinâ€“Protein Interactions, and Viscosity of Highly Concentrated Monoclonal Antibodies through Dynamic Light Scattering. Industrial & Engineering Chemistry Research, 2019, 58, 22456-22471.	1.8	15
119	Effects of linker flexibility on phase behavior and structure of linked colloidal gels. Journal of Chemical Physics, 2021, 154, 074901.	1.2	15
120	Residual multiparticle entropy does not generally change sign near freezing. Journal of Chemical Physics, 2008, 128, 161101.	1.2	14
121	Enhancing tracer diffusivity by tuning interparticle interactions and coordination shell structure. Soft Matter, 2012, 8, 4083-4089.	1.2	14
122	Communication: Phase behavior of materials with isotropic interactions designed by inverse strategies to favor diamond and simple cubic lattice ground states. Journal of Chemical Physics, 2013, 139, 141102.	1.2	14
123	Insights Into Crowding Effects on Protein Stability From a Coarse-Grained Model. Journal of Biomechanical Engineering, 2009, 131, 071002.	0.6	13
124	Antibody nanoparticle dispersions formed with mixtures of crowding molecules retain activity and In Vivo bioavailability. Journal of Pharmaceutical Sciences, 2012, 101, 3763-3778.	1.6	13
125	Structure, Thermodynamics, and Position-Dependent Diffusivity in Fluids with Sinusoidal Density Variations. Langmuir, 2014, 30, 8247-8252.	1.6	13
126	Cooling Dodecanethiol-Capped 2 nm Diameter Gold Nanocrystal Superlattices below Room Temperature Induces a Reversible Orderâ€“Disorder Structure Transition. Journal of Physical Chemistry C, 2016, 120, 27682-27687.	1.5	13

#	Article	IF	Citations
127	Fluids with competing interactions. II. Validating a free energy model for equilibrium cluster size. Journal of Chemical Physics, 2016, 145, .	1.2	13
128	Self-diffusion of a highly concentrated monoclonal antibody by fluorescence correlation spectroscopy: insight into proteinâ€“protein interactions and self-association. Soft Matter, 2019, 15, 6660-6676.	1.2	13
129	Prediction and Optimization of Ion Transport Characteristics in Nanoparticle-Based Electrolytes Using Convolutional Neural Networks. Journal of Physical Chemistry B, 2021, 125, 4838-4849.	1.2	13
130	Machine Learningâ€“Assisted Design of Material Properties. Annual Review of Chemical and Biomolecular Engineering, 2022, 13, 235-254.	3.3	13
131	Connection Between Thermodynamics and Dynamics of Simple Fluids in Pores: Impact of Fluidâ€“Fluid Interaction Range and Fluidâ€“Solid Interaction Strength. Journal of Physical Chemistry C, 2017, 121, 16316-16327.	1.5	12
132	Design of two-dimensional particle assemblies using isotropic pair interactions with an attractive well. AIP Advances, 2017, 7, .	0.6	12
133	Quantized bounding volume hierarchies for neighbor search in molecular simulations on graphics processing units. Computational Materials Science, 2019, 164, 139-146.	1.4	12
134	Colorimetric quantification of linking in thermoreversible nanocrystal gel assemblies. Science Advances, 2022, 8, eabm7364.	4.7	12
135	Note: Position-dependent and pair diffusivity profiles from steady-state solutions of color reaction-counterdiffusion problems. Journal of Chemical Physics, 2014, 141, 046101.	1.2	11
136	Communication: Local structure-mobility relationships of confined fluids reverse upon supercooling. Journal of Chemical Physics, 2015, 142, 161102.	1.2	11
137	Breakup of Oil Jets into Droplets in Seawater with Environmentally Benign Nanoparticle and Surfactant Dispersants. Industrial & Engineering Chemistry Research, 2015, 54, 4243-4251.	1.8	10
138	Transport Mechanisms Underlying Ionic Conductivity in Nanoparticle-Based Single-Ion Electrolytes. Journal of Physical Chemistry Letters, 2020, 11, 6970-6975.	2.1	10
139	Connecting Solute Diffusion to Morphology in Triblock Copolymer Membranes. Macromolecules, 2020, 53, 2336-2343.	2.2	10
140	Wertheimâ€™s thermodynamic perturbation theory with double-bond association and its application to colloidâ€“linker mixtures. Journal of Chemical Physics, 2021, 154, 024905.	1.2	10
141	Influence of morphology of colloidal nanoparticle gels on ion transport and rheology. Journal of Chemical Physics, 2019, 150, 214903.	1.2	9
142	Phase diagram for two-dimensional layer of soft particles. Soft Matter, 2019, 15, 4162-4169.	1.2	9
143	The role of pressure in inverse design for assembly. Journal of Chemical Physics, 2019, 151, 104104.	1.2	9
144	Influence of pore morphology on the diffusion of water in triblock copolymer membranes. Journal of Chemical Physics, 2020, 152, 014904.	1.2	9

#	Article	IF	Citations
145	Free Volumes and the Anomalous Self-Diffusivity of Attractive Colloids. Journal of Physical Chemistry B, 2006, 110, 5166-5169.	1.2	8
146	Dual nature of magnetic nanoparticle dispersions enables control over short-range attraction and long-range repulsion interactions. Communications Chemistry, 2022, 5, .	2.0	8
147	Effect of Dilute Nitric Acid on Crystallization and Fracture of Amorphous Solid Water Films. Journal of Physical Chemistry C, 2007, 111, 10438-10447.	1.5	7
148	Shear-rate-dependent structural order and viscosity of a fluid with short-range attractions. Physical Review E, 2008, 78, 010201.	0.8	7
149	Gold nanoparticles with high densities of small protuberances on nanocluster cores with strong NIR extinction. RSC Advances, 2015, 5, 104674-104687.	1.7	7
150	Equation of state of the rigid disk fluid from its triangle distribution. Journal of Chemical Physics, 2000, 113, 10186-10190.	1.2	6
151	Volatile Diffusional Character of Cytoplasm. Journal of Physical Chemistry B, 2006, 110, 25606-25607.	1.2	6
152	RELATIONSHIP BETWEEN SHEAR VISCOSITY AND STRUCTURE OF A MODEL COLLOIDAL SUSPENSION. Chemical Engineering Communications, 2009, 197, 63-75.	1.5	6
153	Graphoepitaxy for Pattern Multiplication of Nanoparticle Monolayers. Physical Review Letters, 2014, 113, 085503.	2.9	6
154	Tuning structure and mobility of solvation shells surrounding tracer additives. Journal of Chemical Physics, 2015, 142, 124501.	1.2	6
155	Impact of solvent granularity and layering on tracer hydrodynamics in confinement. Soft Matter, 2016, 12, 9561-9574.	1.2	6
156	Response to â€œComment on â€˜A simple molecular thermodynamic theory of hydrophobic hydrationâ€™â€Šâ€•[J. Chem. Phys. 119, 10448 (2003)]. Journal of Chemical Physics, 2003, 119, 10450-10451.	1.2	5
157	Communication: Fine discretization of pair interactions and an approximate analytical strategy for predicting equilibrium behavior of complex fluids. Journal of Chemical Physics, 2013, 139, 161102.	1.2	5
158	Effects of protein engineering and rational mutagenesis on crystal lattice of single chain antibody fragments. Proteins: Structure, Function and Bioinformatics, 2014, 82, 1884-1895.	1.5	5
159	A Conversation with John McKetta. Annual Review of Chemical and Biomolecular Engineering, 2017, 8, 1-11.	3.3	5
160	Control of Primary Particle Spacing in Gold Nanoparticle Clusters for Both High NIR Extinction and Full Reversibility. Langmuir, 2017, 33, 3413-3426.	1.6	5
161	Cross-stream migration of a Brownian droplet in a polymer solution under Poiseuille flow. Soft Matter, 2019, 15, 3168-3178.	1.2	5
162	Response to â€œComment on â€˜Residual multiparticle entropy does not generally change sign near freezingâ€™â€‰â€•[J. Chem. Phys. 130, 037101 (2009)]. Journal of Chemical Physics, 2009, 130, 037102.	1.2	4

#	Article	IF	Citations
163	How Local and Average Particle Diffusivities of Inhomogeneous Fluids Depend on Microscopic Dynamics. Journal of Physical Chemistry B, 2015, 119, 9103-9113.	1.2	4
164	Position-Dependent Dynamics Explain Pore-Averaged Diffusion in Strongly Attractive Adsorptive Systems. Langmuir, 2017, 33, 13955-13963.	1.6	4
165	Geometric model of crack-templated networks for transparent conductive films. Applied Physics Letters, 2022, 120, .	1.5	4
166	Comment on â€œObservations on an equation of state for water confined in narrow slit-poresâ€•[J. Chem. Phys. 116, 2565 (2002)]. Journal of Chemical Physics, 2002, 117, 8162-8163.	1.2	3
167	Predicting the structure of fluids with piecewise constant interactions: Comparing the accuracy of five efficient integral equation theories. Physical Review E, 2015, 91, 043307.	0.8	3
168	Graphoepitaxy for translational and orientational ordering of monolayers of rectangular nanoparticles. Physical Review E, 2016, 93, 032606.	0.8	3
169	Treating random sequential addition via the replica method. Journal of Chemical Physics, 2022, 157, .	1.2	3
170	Intrinsic vulnerabilities to mechanical failure in nanoscale films. Mechanics of Materials, 2006, 38, 924-932.	1.7	2
171	Analytical model for studying how environmental factors influence protein conformational stability in solution. Journal of Chemical Physics, 2006, 125, 224903.	1.2	2
172	Plasmonic biodegradable gold nanoclusters with high NIR-absorbance for biomedical imaging. Proceedings of SPIE, 2014, , .	0.8	2
173	Web applet for predicting structure and thermodynamics of complex fluids. American Journal of Physics, 2015, 83, 219-222.	0.3	1
174	Consequences of minimising pair correlations in fluids for dynamics, thermodynamics and structure. Molecular Physics, 2016, 114, 2411-2423.	0.8	1
175	Graphoepitaxy of hard spheres into square lattices. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 585, 124115.	2.3	1
176	How Concentration and Crowding Impact Protein Stability: Insights From a Coarse-Grained Model. , 2008, , .		0
177	Concentration and crowding effects on protein stability from a coarse-grained model. , 2009, , 1-25.		0
178	Stability of force-driven shear flows in nonequilibrium molecular simulations with periodic boundaries. Journal of Chemical Physics, 2020, 152, 214113.	1.2	0