

Juan J. de Pablo

List of Publications by Year in descending order

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378
papers

23,293
citations

7251

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h-index

14012

133
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385
all docs

385
docs citations

385
times ranked

17319
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular characterization of COVID-19 therapeutics: luteolin as an allosteric modulator of the spike protein of SARS-CoV-2. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 58-66.	1.7	11
2	Strongly Chiral Liquid Crystals in Nanoemulsions. <i>Small</i> , 2022, , 2105835.	5.2	4
3	Toward wide-spectrum antivirals against coronaviruses: Molecular characterization of SARS-CoV-2 NSP13 helicase inhibitors. <i>Science Advances</i> , 2022, 8, eabj4526.	4.7	25
4	Is the "Bricks-and-Mortar" Mesophase Bicontinuous? Dynamic Simulations of Miktoarm Block Copolymer/Homopolymer Blends. <i>Macromolecules</i> , 2022, 55, 745-758.	2.2	3
5	Active learning of polarizable nanoparticle phase diagrams for the guided design of triggerable self-assembling superlattices. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 350-363.	1.7	3
6	From nematic shells to nematic droplets: energetics and defect transitions. <i>Soft Matter</i> , 2022, , .	1.2	2
7	Characterization of the Interfacial Orientation and Molecular Conformation in a Glass-Forming Organic Semiconductor. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 3455-3466.	4.0	5
8	Tuning the mechanical impedance of disordered networks for impact mitigation. <i>Soft Matter</i> , 2022, 18, 2039-2045.	1.2	3
9	Logic operations with active topological defects. <i>Science Advances</i> , 2022, 8, eabg9060.	4.7	13
10	Collective Variables for Free Energy Surface Tailoring: Understanding and Modifying Functionality in Systems Dominated by Rare Events. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2830-2837.	2.1	5
11	Ionic Transport in Electrostatic Janus Membranes. An Explicit Solvent Molecular Dynamic Simulation. <i>ACS Nano</i> , 2022, 16, 3768-3775.	7.3	9
12	Programming Solitons in Liquid Crystals Using Surface Chemistry. <i>Langmuir</i> , 2022, 38, 3575-3584.	1.6	5
13	Metastable doubly threaded [3]rotaxanes with a large macrocycle. <i>Chemical Science</i> , 2022, 13, 5333-5344.	3.7	4
14	Parameter estimation for X-ray scattering analysis with Hamiltonian Markov Chain Monte Carlo. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 721-731.	1.0	2
15	A Coarse-Grained Molecular Dynamics Study of Strongly Charged Polyelectrolyte Coacervates: Interfacial, Structural, and Dynamical Properties. <i>Macromolecules</i> , 2022, 55, 4146-4158.	2.2	5
16	Stress-activated constraints in dense suspension rheology. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	7
17	Catapulting of topological defects through elasticity bands in active nematics. <i>Soft Matter</i> , 2022, 18, 5271-5281.	1.2	5
18	Nonequilibrium statistical thermodynamics of multicomponent interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	10

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19	A Generalizable Approach to Direct the Self-Assembly of Functional Blue-Phase Liquid Crystals. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	5
20	Polyelectrolyte Complex Coacervates: Recent Developments and New Frontiers. <i>Annual Review of Condensed Matter Physics</i> , 2021, 12, 155-176.	5.2	96
21	Active motion of multiphase oil droplets: emergent dynamics of squirmers with evolving internal structure. <i>Soft Matter</i> , 2021, 17, 2985-2993.	1.2	24
22	Directing the far-from-equilibrium assembly of nanoparticles in confined liquid crystals by hydrodynamic fields. <i>Soft Matter</i> , 2021, 17, 3463-3472.	1.2	5
23	Role of solvation site segmental dynamics on ion transport in ethylene-oxide based side-chain polymer electrolytes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9937-9951.	5.2	21
24	Modeling the Binding Mechanism of Remdesivir, Favilavir, and Ribavirin to SARS-CoV-2 RNA-Dependent RNA Polymerase. <i>ACS Central Science</i> , 2021, 7, 164-174.	5.3	46
25	Nucleation and growth of blue phase liquid crystals on chemically-patterned surfaces: a surface anchoring assisted blue phase correlation length. <i>Molecular Systems Design and Engineering</i> , 2021, 6, 534-544.	1.7	3
26	Complex coacervation of statistical polyelectrolytes: role of monomer sequences and formation of inhomogeneous coacervates. <i>Molecular Systems Design and Engineering</i> , 2021, 6, 790-804.	1.7	10
27	Nanoscale chromatin imaging and analysis platform bridges 4D chromatin organization with molecular function. <i>Science Advances</i> , 2021, 7, .	4.7	37
28	Molecular Level Differences in Ionic Solvation and Transport Behavior in Ethylene Oxide-Based Homopolymer and Block Copolymer Electrolytes. <i>Journal of the American Chemical Society</i> , 2021, 143, 3180-3190.	6.6	55
29	OpenAWSEM with Open3SPN2: A fast, flexible, and accessible framework for large-scale coarse-grained biomolecular simulations. <i>PLoS Computational Biology</i> , 2021, 17, e1008308.	1.5	31
30	Code interoperability extends the scope of quantum simulations. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	8
31	Autonomous materials systems from active liquid crystals. <i>Nature Reviews Materials</i> , 2021, 6, 437-453.	23.3	53
32	Spatiotemporal control of liquid crystal structure and dynamics through activity patterning. <i>Nature Materials</i> , 2021, 20, 875-882.	13.3	70
33	Role of Molecular Architecture on Ion Transport in Ethylene oxide-Based Polymer Electrolytes. <i>Macromolecules</i> , 2021, 54, 2266-2276.	2.2	33
34	Neural Network Sampling of the Free Energy Landscape for Nitrogen Dissociation on Ruthenium. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2954-2962.	2.1	16
35	Scaling Theory of Neutral Sequence-Specific Polyampholytes. <i>Macromolecules</i> , 2021, 54, 3232-3246.	2.2	14
36	Machine learning active-nematic hydrodynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	44

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37	Harnessing Peptide Binding to Capture and Reclaim Phosphate. <i>Journal of the American Chemical Society</i> , 2021, 143, 4440-4450.	6.6	11
38	Anisotropic Coarse-Grained Model for Conjugated Polymers: Investigations into Solution Morphologies. <i>Macromolecules</i> , 2021, 54, 3780-3789.	2.2	23
39	Tetranucleosome Interactions Drive Chromatin Folding. <i>ACS Central Science</i> , 2021, 7, 1019-1027.	5.3	14
40	Molecular Mass Dependence of Interfacial Tension in Complex Coacervation. <i>Physical Review Letters</i> , 2021, 126, 237801.	2.9	11
41	Liquid Crystal Films as Active Substrates for Nanoparticle Control. <i>ACS Applied Nano Materials</i> , 2021, 4, 6700-6708.	2.4	6
42	Transformation between elastic dipoles, quadrupoles, octupoles, and hexadecapoles driven by surfactant self-assembly in nematic emulsion. <i>Science Advances</i> , 2021, 7, .	4.7	9
43	Defect Spirograph: Dynamical Behavior of Defects in Spatially Patterned Active Nematics. <i>Physical Review Letters</i> , 2021, 126, 227801.	2.9	15
44	Sequence Blockiness Controls the Structure of Polyampholyte Necklaces. <i>ACS Macro Letters</i> , 2021, 10, 1048-1054.	2.3	14
45	Advanced Materials for Energy-Water Systems: The Central Role of Water/Solid Interfaces in Adsorption, Reactivity, and Transport. <i>Chemical Reviews</i> , 2021, 121, 9450-9501.	23.0	43
46	Polyelectrolyte Complex Coacervation across a Broad Range of Charge Densities. <i>Macromolecules</i> , 2021, 54, 6878-6890.	2.2	60
47	Sustainable Polymers Square Table. <i>Macromolecules</i> , 2021, 54, 8257-8258.	2.2	2
48	Control of Monodomain Polymer-Stabilized Cuboidal Nanocrystals of Chiral Nematics by Confinement. <i>ACS Nano</i> , 2021, 15, 15972-15981.	7.3	10
49	Broadband Liquid Crystal Tunable Metasurfaces in the Visible: Liquid Crystal Inhomogeneities Across the Metasurface Parameter Space. <i>ACS Photonics</i> , 2021, 8, 567-575.	3.2	46
50	Effect of Solvent Quality on the Phase Behavior of Polyelectrolyte Complexes. <i>Macromolecules</i> , 2021, 54, 105-114.	2.2	53
51	Combining Particle-Based Simulations and Machine Learning to Understand Defect Kinetics in Thin Films of Symmetric Diblock Copolymers. <i>Macromolecules</i> , 2021, 54, 10074-10085.	2.2	11
52	Fluctuating hydrodynamics of chiral active fluids. <i>Nature Physics</i> , 2021, 17, 1260-1269.	6.5	41
53	Stability and molecular pathways to the formation of spin defects in silicon carbide. <i>Nature Communications</i> , 2021, 12, 6325.	5.8	9
54	Efficient Multiscale Optoelectronic Prediction for Conjugated Polymers. <i>Macromolecules</i> , 2020, 53, 482-490.	2.2	22

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55	Hydrodynamic interactions in topologically linked ring polymers. <i>Physical Review E</i> , 2020, 102, 032502.	0.8	11
56	Targeted sequence design within the coarse-grained polymer genome. <i>Science Advances</i> , 2020, 6, .	4.7	84
57	Direct Observation of Liquid Crystal Droplet Configurational Transitions using Optical Tweezers. <i>Langmuir</i> , 2020, 36, 7074-7082.	1.6	17
58	Prolate and oblate chiral liquid crystal spheroids. <i>Science Advances</i> , 2020, 6, eaba6728.	4.7	27
59	Formation, Stability, and Annihilation of the Stitched Morphology in Block Copolymer Thin Films. <i>Macromolecules</i> , 2020, 53, 10446-10456.	2.2	3
60	The looks of a million-year-old polymer glass. <i>Nature Materials</i> , 2020, 19, 1041-1042.	13.3	0
61	Molecular characterization of ebsele binding activity to SARS-CoV-2 main protease. <i>Science Advances</i> , 2020, 6, .	4.7	80
62	Crossover from Rouse to Reptation Dynamics in Salt-Free Polyelectrolyte Complex Coacervates. <i>ACS Macro Letters</i> , 2020, 9, 1318-1324.	2.3	21
63	Spatiotemporal Formation and Growth Kinetics of Polyelectrolyte Complex Micelles with Millisecond Resolution. <i>ACS Macro Letters</i> , 2020, 9, 1674-1680.	2.3	17
64	Over What Length Scale Does an Inorganic Substrate Perturb the Structure of a Glassy Organic Semiconductor?. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26717-26726.	4.0	22
65	Structure and dynamics of hydrodynamically interacting finite-size Brownian particles in a spherical cavity: Spheres and cylinders. <i>Journal of Chemical Physics</i> , 2020, 152, 204109.	1.2	8
66	Intrinsic Ion Transport Properties of Block Copolymer Electrolytes. <i>ACS Nano</i> , 2020, 14, 8902-8914.	7.3	36
67	Dynamics of poly[n]catenane melts. <i>Journal of Chemical Physics</i> , 2020, 152, 214901.	1.2	39
68	Structural transformations in tetravalent nematic shells induced by a magnetic field. <i>Soft Matter</i> , 2020, 16, 8169-8178.	1.2	5
69	Shear Thickening and Jamming of Dense Suspensions: The α -Roll of Friction. <i>Physical Review Letters</i> , 2020, 124, 248005.	2.9	80
70	Dissociation of salts in water under pressure. <i>Nature Communications</i> , 2020, 11, 3037.	5.8	21
71	Thermodynamics and Structure of Poly[<i>n</i>]catenane Melts. <i>Macromolecules</i> , 2020, 53, 3390-3408.	2.2	44
72	Vapor-Deposited Glasses Highlight the Role of Density in Photostability. <i>Journal of Physical Chemistry B</i> , 2020, 124, 6112-6120.	1.2	5

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73	Microphase Separation in Polyelectrolyte Blends: Weak Segregation Theory and Relation to Nuclear â€œPastaâ€. <i>Macromolecules</i> , 2020, 53, 1281-1292.	2.2	22
74	An in situ shearing x-ray measurement system for exploring structures and dynamics at the solidâ€“liquid interface. <i>Review of Scientific Instruments</i> , 2020, 91, 013908.	0.6	3
75	Cuboidal liquid crystal phases under multiaxial geometrical frustration. <i>Soft Matter</i> , 2020, 16, 870-880.	1.2	8
76	Combined Force-Frequency Sampling for Simulation of Systems Having Rugged Free Energy Landscapes. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 1448-1455.	2.3	14
77	Understanding Ion Mobility in P2VP/NMP+â€“ Polymer Electrolytes: A Combined Simulation and Experimental Study. <i>Macromolecules</i> , 2020, 53, 2783-2792.	2.2	12
78	Bottom-Up Meets Top-Down: The Crossroads ofâ€“Multiscale Chromatin Modeling. <i>Biophysical Journal</i> , 2020, 118, 2057-2065.	0.2	28
79	Soft crystal martensites: An in situ resonant soft x-ray scattering study of a liquid crystal martensitic transformation. <i>Science Advances</i> , 2020, 6, eaay5986.	4.7	20
80	Shape induced segregation and anomalous particle transport under spherical confinement. <i>Physics of Fluids</i> , 2020, 32, 053307.	1.6	6
81	Emergence of Radial Tree of Bend Stripes in Active Nematics. <i>Physical Review X</i> , 2019, 9, .	2.8	13
82	Liquid Crystalline and Isotropic Coacervates of Semiflexible Polyanions and Flexible Polycations. <i>Macromolecules</i> , 2019, 52, 5140-5156.	2.2	26
83	Ultrathin initiated chemical vapor deposition polymer interfacial energy control for directed self-assembly hole-shrink applications. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, 061804.	0.6	3
84	Qresp, a tool for curating, discovering and exploring reproducible scientific papers. <i>Scientific Data</i> , 2019, 6, 190002.	2.4	24
85	Controlling Complex Coacervation via Random Polyelectrolyte Sequences. <i>ACS Macro Letters</i> , 2019, 8, 1296-1302.	2.3	63
86	Fluctuations and phase transitions of uniaxial and biaxial liquid crystals using a theoretically informed Monte Carlo and a Landau free energy density. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 175101.	0.7	1
87	Generalised Navier boundary condition for a volume of fluid approach using a finite-volume method. <i>Physics of Fluids</i> , 2019, 31, 021203.	1.6	15
88	Anisotropic Vapor-Deposited Glasses: Hybrid Organic Solids. <i>Accounts of Chemical Research</i> , 2019, 52, 407-414.	7.6	67
89	The Free Energy Landscape of Internucleosome Interactions and Its Relation to Chromatin Fiber Structure. <i>ACS Central Science</i> , 2019, 5, 341-348.	5.3	31
90	Role of Defects in Ion Transport in Block Copolymer Electrolytes. <i>Nano Letters</i> , 2019, 19, 4684-4691.	4.5	48

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91	1CPN: A coarse-grained multi-scale model of chromatin. <i>Journal of Chemical Physics</i> , 2019, 150, 215102.	1.2	29
92	Enzyme-Induced Kinetic Control of Peptide-Polymer Micelle Morphology. <i>ACS Macro Letters</i> , 2019, 8, 676-681.	2.3	22
93	Recent advances in machine learning towards multiscale soft materials design. <i>Current Opinion in Chemical Engineering</i> , 2019, 23, 106-114.	3.8	110
94	Electronic structure at coarse-grained resolutions from supervised machine learning. <i>Science Advances</i> , 2019, 5, eaav1190.	4.7	47
95	Free energy of metal-organic framework self-assembly. <i>Journal of Chemical Physics</i> , 2019, 150, 104502.	1.2	18
96	Degenerate conic anchoring and colloidal elastic dipole-hexadecapole transformations. <i>Nature Communications</i> , 2019, 10, 1000.	5.8	18
97	Pair and many-body interactions between ligated Au nanoparticles. <i>Journal of Chemical Physics</i> , 2019, 150, 044904.	1.2	17
98	Influence of Homopolymer Addition in Templated Assembly of Cylindrical Block Copolymers. <i>ACS Nano</i> , 2019, 13, 4073-4082.	7.3	3
99	New frontiers for the materials genome initiative. <i>Npj Computational Materials</i> , 2019, 5, .	3.5	312
100	Structure and proton conduction in sulfonated poly(ether ether ketone) semi-permeable membranes: a multi-scale computational approach. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 9362-9375.	1.3	4
101	A pH-Triggered, Self-Assembled, and Bioprintable Hybrid Hydrogel Scaffold for Mesenchymal Stem Cell Based Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8749-8762.	4.0	112
102	Sculpting stable structures in pure liquids. <i>Science Advances</i> , 2019, 5, eaav4283.	4.7	25
103	Thermally reconfigurable Janus droplets with nematic liquid crystalline and isotropic perfluorocarbon oil compartments. <i>Soft Matter</i> , 2019, 15, 2580-2590.	1.2	19
104	Extracting collective motions underlying nucleosome dynamics via nonlinear manifold learning. <i>Journal of Chemical Physics</i> , 2019, 150, 054902.	1.2	6
105	Perfection in Nucleation and Growth of Blue-Phase Single Crystals: Small Free-Energy Required to Self-Assemble at Specific Lattice Orientation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9487-9495.	4.0	24
106	Reconfigurable Multicompartment Emulsion Drops Formed by Nematic Liquid Crystals and Immiscible Perfluorocarbon Oils. <i>Langmuir</i> , 2019, 35, 16312-16323.	1.6	12
107	Ideal isotropic auxetic networks from random networks. <i>Soft Matter</i> , 2019, 15, 8084-8091.	1.2	18
108	Sculpted grain boundaries in soft crystals. <i>Science Advances</i> , 2019, 5, eaax9112.	4.7	18

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109	Origin of Anisotropic Molecular Packing in Vapor-Deposited Alq3 Glasses. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 164-170.	2.1	49
110	Graph-Based Approach to Systematic Molecular Coarse-Graining. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1199-1208.	2.3	60
111	Drop splashing is independent of substrate wetting. <i>Physics of Fluids</i> , 2018, 30, .	1.6	35
112	SSAGES: Software Suite for Advanced General Ensemble Simulations. <i>Journal of Chemical Physics</i> , 2018, 148, 044104.	1.2	83
113	Role of translational entropy in spatially inhomogeneous, coarse-grained models. <i>Journal of Chemical Physics</i> , 2018, 148, .	1.2	8
114	Ion Distribution in Microphase-Separated Copolymers with Periodic Dielectric Permittivity. <i>Macromolecules</i> , 2018, 51, 1986-1991.	2.2	31
115	<i>In Silico</i> Measurement of Elastic Moduli of Nematic Liquid Crystals. <i>Physical Review Letters</i> , 2018, 120, 107801.	2.9	16
116	Intra-molecular Charge Transfer and Electron Delocalization in Non-fullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10043-10052.	4.0	24
117	A Detailed Examination of the Topological Constraints of Lamellae-Forming Block Copolymers. <i>Macromolecules</i> , 2018, 51, 2110-2124.	2.2	19
118	Hierarchical Coupling of First-Principles Molecular Dynamics with Advanced Sampling Methods. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 2881-2888.	2.3	18
119	Influence of Ion Solvation on the Properties of Electrolyte Solutions. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4029-4034.	1.2	88
120	Phase Behavior and Salt Partitioning in Polyelectrolyte Complex Coacervates. <i>Macromolecules</i> , 2018, 51, 2988-2995.	2.2	241
121	Light-activated helical inversion in cholesteric liquid crystal microdroplets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4334-4339.	3.3	30
122	Adaptive enhanced sampling by force-biasing using neural networks. <i>Journal of Chemical Physics</i> , 2018, 148, 134108.	1.2	39
123	Optimizing self-consistent field theory block copolymer models with X-ray metrology. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 376-389.	1.7	13
124	Auxetic metamaterials from disordered networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E1384-E1390.	3.3	83
125	Interplay of structure, elasticity, and dynamics in actin-based nematic materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E124-E133.	3.3	73
126	Dynamic actuation of glassy polymersomes through isomerization of a single azobenzene unit at the block copolymer interface. <i>Nature Chemistry</i> , 2018, 10, 659-666.	6.6	93

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127	Mechanisms of Directed Self-Assembly in Cylindrical Hole Confinements. <i>Macromolecules</i> , 2018, 51, 2418-2427.	2.2	4
128	Nanocrystalline Oligo(ethylene sulfide)- <i>b</i> -poly(ethylene glycol) Micelles: Structure and Stability. <i>Macromolecules</i> , 2018, 51, 9538-9546.	2.2	7
129	Structural Correlations and Percolation in Twisted Perylene Diimides Using a Simple Anisotropic Coarse-Grained Model. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 6495-6504.	2.3	15
130	Tenfold increase in the photostability of an azobenzene guest in vapor-deposited glass mixtures. <i>Journal of Chemical Physics</i> , 2018, 149, 204503.	1.2	16
131	Towards hybrid human-machine scientific information extraction. , 2018, , .		4
132	Amphiphile-Induced Phase Transition of Liquid Crystals at Aqueous Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37618-37624.	4.0	23
133	Defect Annihilation Pathways in Directed Assembly of Lamellar Block Copolymer Thin Films. <i>ACS Nano</i> , 2018, 12, 9974-9981.	7.3	38
134	Tunable structure and dynamics of active liquid crystals. <i>Science Advances</i> , 2018, 4, eaat7779.	4.7	125
135	Multivalent counterions diminish the lubricity of polyelectrolyte brushes. <i>Science</i> , 2018, 360, 1434-1438.	6.0	137
136	Evolutionary strategy for inverse charge measurements of dielectric particles. <i>Journal of Chemical Physics</i> , 2018, 148, 234302.	1.2	4
137	Aggregation and Solubility of a Model Conjugated Donor-Acceptor Polymer. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4802-4807.	2.1	36
138	Layered nested Markov chain Monte Carlo. <i>Journal of Chemical Physics</i> , 2018, 149, 072326.	1.2	9
139	Simulations of splashing high and low viscosity droplets. <i>Physics of Fluids</i> , 2018, 30, .	1.6	16
140	Oligomers as Triggers for Responsive Liquid Crystals. <i>Langmuir</i> , 2018, 34, 10092-10101.	1.6	20
141	Topological Effects in Isolated Poly[<i>n</i>]catenanes: Molecular Dynamics Simulations and Rouse Mode Analysis. <i>ACS Macro Letters</i> , 2018, 7, 938-943.	2.3	60
142	Early-stage human islet amyloid polypeptide aggregation: Mechanisms behind dimer formation. <i>Journal of Chemical Physics</i> , 2018, 149, 025101.	1.2	22
143	Effect of temperature on the structure and dynamics of triblock polyelectrolyte gels. <i>Journal of Chemical Physics</i> , 2018, 149, 163310.	1.2	9
144	Complex Coacervation in Polyelectrolytes from a Coarse-Grained Model. <i>Macromolecules</i> , 2018, 51, 6717-6723.	2.2	44

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145	Observation of the pressure effect in simulations of droplets splashing on a dry surface. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	8
146	Low-temperature anomalies of a vapor deposited glass. <i>Physical Review Materials</i> , 2018, 2, .	0.9	26
147	Thickness dependence of forming single crystal by liquid-crystalline blue phase on chemically patterned surface. , 2018, , .		2
148	Studying the effects of chemistry and geometry on DSA hole-shrink process in three dimensions. , 2018, , .		1
149	A multi-chain polymer slip-spring model with fluctuating number of entanglements: Density fluctuations, confinement, and phase separation. <i>Journal of Chemical Physics</i> , 2017, 146, 014903.	1.2	34
150	Comparing Solvophobic and Multivalent Induced Collapse in Polyelectrolyte Brushes. <i>ACS Macro Letters</i> , 2017, 6, 155-160.	2.3	45
151	Gel phase formation in dilute triblock copolyelectrolyte complexes. <i>Nature Communications</i> , 2017, 8, 14131.	5.8	92
152	Molecular Structure of Canonical Liquid Crystal Interfaces. <i>Journal of the American Chemical Society</i> , 2017, 139, 3841-3850.	6.6	56
153	A Molecular View of the Dynamics of dsDNA Packing Inside Viral Capsids in the Presence of Ions. <i>Biophysical Journal</i> , 2017, 112, 1302-1315.	0.2	20
154	Gelatin-Derived Grapheneâ€“Silicate Hybrid Materials Are Biocompatible and Synergistically Promote BMP9-Induced Osteogenic Differentiation of Mesenchymal Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15922-15932.	4.0	30
155	Influence of Vapor Deposition on Structural and Charge Transport Properties of Ethylbenzene Films. <i>ACS Central Science</i> , 2017, 3, 415-424.	5.3	21
156	Segregation of liquid crystal mixtures in topological defects. <i>Nature Communications</i> , 2017, 8, 15064.	5.8	25
157	Directed self-assembly of liquid crystalline blue-phases into ideal single-crystals. <i>Nature Communications</i> , 2017, 8, 15854.	5.8	101
158	Directed Self-Assembly of Colloidal Particles onto Nematic Liquid Crystalline Defects Engineered by Chemically Patterned Surfaces. <i>ACS Nano</i> , 2017, 11, 6492-6501.	7.3	22
159	Membrane Permeation versus Amyloidogenicity: A Multitechnique Study of Islet Amyloid Polypeptide Interaction with Model Membranes. <i>Journal of the American Chemical Society</i> , 2017, 139, 137-148.	6.6	49
160	Quantitative Three-Dimensional Characterization of Block Copolymer Directed Self-Assembly on Combined Chemical and Topographical Prepatterned Templates. <i>ACS Nano</i> , 2017, 11, 1307-1319.	7.3	43
161	Strain-induced alignment and phase behavior of blue phase liquid crystals confined to thin films. <i>Soft Matter</i> , 2017, 13, 8999-9006.	1.2	18
162	Sharp Morphological Transitions from Nanoscale Mixed-Anchoring Patterns in Confined Nematic Liquid Crystals. <i>Langmuir</i> , 2017, 33, 12516-12524.	1.6	14

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163	Spherical nematic shells with a prolate ellipsoidal core. <i>Soft Matter</i> , 2017, 13, 7465-7472.	1.2	13
164	Derivation of Multiple Covarying Material and Process Parameters Using Physics-Based Modeling of X-ray Data. <i>Macromolecules</i> , 2017, 50, 7783-7793.	2.2	26
165	In silico evidence for sequence-dependent nucleosome sliding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9197-E9205.	3.3	65
166	Polymer Informatics: Opportunities and Challenges. <i>ACS Macro Letters</i> , 2017, 6, 1078-1082.	2.3	184
167	Mesoscale martensitic transformation in single crystals of topological defects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10011-10016.	3.3	42
168	Coarse-Grained Model of the Dynamics of Electrolyte Solutions. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8195-8202.	1.2	49
169	Water Flux Induced Reorientation of Liquid Crystals. <i>ACS Central Science</i> , 2017, 3, 1345-1349.	5.3	9
170	Electrostatic confinement and manipulation of DNA molecules for genome analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13400-13405.	3.3	25
171	Poly[<i>n</i>]catenanes: Synthesis of molecular interlocked chains. <i>Science</i> , 2017, 358, 1434-1439.	6.0	196
172	Directly Observing Micelle Fusion and Growth in Solution by Liquid-Cell Transmission Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 17140-17151.	6.6	118
173	Influence of Molecular Shape on the Thermal Stability and Molecular Orientation of Vapor-Deposited Organic Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3380-3386.	2.1	62
174	Patterned surface anchoring of nematic droplets at miscible liquid-liquid interfaces. <i>Soft Matter</i> , 2017, 13, 5714-5723.	1.2	23
175	Parallel <i>O</i> (<i>N</i>) Stokes TM solver towards scalable Brownian dynamics of hydrodynamically interacting objects in general geometries. <i>Journal of Chemical Physics</i> , 2017, 146, 244114.	1.2	14
176	Visualization and simulation of the transfer process of index-matched silica microparticle inks for gravure printing. <i>AIChE Journal</i> , 2017, 63, 1419-1429.	1.8	5
177	Educating local radial basis functions using the highest gradient of interest in three dimensional geometries. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 110, 603-617.	1.5	1
178	Understanding Atomic-Scale Behavior of Liquid Crystals at Aqueous Interfaces. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 237-244.	2.3	31
179	Towards a Hybrid Human-Computer Scientific Information Extraction Pipeline. , 2017, , .		18
180	Multivalent ions induce lateral structural inhomogeneities in polyelectrolyte brushes. <i>Science Advances</i> , 2017, 3, eaao1497.	4.7	79

#	ARTICLE	IF	CITATIONS
181	Demixing by a Nematic Mean Field: Coarse-Grained Simulations of Liquid Crystalline Polymers. <i>Polymers</i> , 2017, 9, 88.	2.0	18
182	Design of surface patterns with optimized thermodynamic driving forces for the directed self-assembly of block copolymers in lithographic applications. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 567-580.	1.7	11
183	Tension-Dependent Free Energies of Nucleosome Unwrapping. <i>ACS Central Science</i> , 2016, 2, 660-666.	5.3	67
184	Controlled deformation of vesicles by flexible structured media. <i>Science Advances</i> , 2016, 2, e1600978.	4.7	16
185	Mechanical Response of DNA-Nanoparticle Crystals to Controlled Deformation. <i>ACS Central Science</i> , 2016, 2, 614-620.	5.3	13
186	Perspective: Evolutionary design of granular media and block copolymer patterns. <i>APL Materials</i> , 2016, 4, .	2.2	33
187	Lattice Boltzmann simulation of asymmetric flow in nematic liquid crystals with finite anchoring. <i>Journal of Chemical Physics</i> , 2016, 144, 084905.	1.2	30
188	An $O(N)$ and parallel approach to integral problems by a kernel-independent fast multipole method: Application to polarization and magnetization of interacting particles. <i>Journal of Chemical Physics</i> , 2016, 145, .	1.2	13
189	Planarity and multiple components promote organic photovoltaic efficiency by improving electronic transport. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31388-31399.	1.3	18
190	Directed self-assembly of nematic liquid crystals on chemically patterned surfaces: morphological states and transitions. <i>Soft Matter</i> , 2016, 12, 8595-8605.	1.2	23
191	Positioning colloids at the surfaces of cholesteric liquid crystal droplets. <i>Soft Matter</i> , 2016, 12, 8781-8789.	1.2	19
192	Blending Education and Polymer Science: Semiautomated Creation of a Thermodynamic Property Database. <i>Journal of Chemical Education</i> , 2016, 93, 1561-1568.	1.1	17
193	Photostability Can Be Significantly Modulated by Molecular Packing in Glasses. <i>Journal of the American Chemical Society</i> , 2016, 138, 11282-11289.	6.6	41
194	Dynamic structure of active nematic shells. <i>Nature Communications</i> , 2016, 7, 13483.	5.8	68
195	A Hybrid Human-computer Approach to the Extraction of Scientific Facts from the Literature. <i>Procedia Computer Science</i> , 2016, 80, 386-397.	1.2	18
196	Mesoscale structure of chiral nematic shells. <i>Soft Matter</i> , 2016, 12, 8983-8989.	1.2	14
197	Age and structure of a model vapour-deposited glass. <i>Nature Communications</i> , 2016, 7, 13062.	5.8	39
198	Criticality and Connectivity in Macromolecular Charge Complexation. <i>Macromolecules</i> , 2016, 49, 8789-8800.	2.2	96

#	ARTICLE	IF	CITATIONS
199	Structural Transitions in Cholesteric Liquid Crystal Droplets. ACS Nano, 2016, 10, 6484-6490.	7.3	66
200	Inherent structure energy is a good indicator of molecular mobility in glasses. Soft Matter, 2016, 12, 5898-5904.	1.2	28
201	A theory of interactions between polarizable dielectric spheres. Journal of Colloid and Interface Science, 2016, 469, 237-241.	5.0	33
202	Turning statistical physics models into materials design engines. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 34-39.	3.3	71
203	Topological defects in liquid crystals as templates for molecular self-assembly. Nature Materials, 2016, 15, 106-112.	13.3	211
204	A multichain polymer slip-spring model with fluctuating number of entanglements for linear and nonlinear rheology. Journal of Chemical Physics, 2015, 143, 243147.	1.2	42
205	Sculpting bespoke mountains: Determining free energies with basis expansions. Journal of Chemical Physics, 2015, 143, 044101.	1.2	11
206	Sensors: Liquid Crystal Enabled Early Stage Detection of Beta Amyloid Formation on Lipid Monolayers (Adv. Funct. Mater. 38/2015). Advanced Functional Materials, 2015, 25, 6147-6147.	7.8	1
207	Stimuli-Responsive Cubosomes Formed from Blue Phase Liquid Crystals. Advanced Materials, 2015, 27, 6892-6898.	11.1	44
208	Graphoepitaxial assembly of cylinder forming block copolymers in cylindrical holes. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 430-441.	2.4	7
209	Liquid Crystal Enabled Early Stage Detection of Beta Amyloid Formation on Lipid Monolayers. Advanced Functional Materials, 2015, 25, 6050-6060.	7.8	79
210	Homeotropic nano-particle assembly on degenerate planar nematic interfaces: films and droplets. Soft Matter, 2015, 11, 5067-5076.	1.2	12
211	Fibrillar dimer formation of islet amyloid polypeptides. AIP Advances, 2015, 5, .	0.6	12
212	Coarse-Grained Ions for Nucleic Acid Modeling. Journal of Chemical Theory and Computation, 2015, 11, 5436-5446.	2.3	26
213	A molecular view of the role of chirality in charge-driven polypeptide complexation. Soft Matter, 2015, 11, 1525-1538.	1.2	55
214	A molecular view of DNA-conjugated nanoparticle association energies. Soft Matter, 2015, 11, 1919-1929.	1.2	11
215	Chirality-selected phase behaviour in ionic polypeptide complexes. Nature Communications, 2015, 6, 6052.	5.8	208
216	Simulation of Defect Reduction in Block Copolymer Thin Films by Solvent Annealing. ACS Macro Letters, 2015, 4, 11-15.	2.3	79

#	ARTICLE	IF	CITATIONS
217	Nanoparticle self-assembly at the interface of liquid crystal droplets. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5297-5302.	3.3	98
218	Characterizing the Three-Dimensional Structure of Block Copolymers via Sequential Infiltration Synthesis and Scanning Transmission Electron Tomography. ACS Nano, 2015, 9, 5333-5347.	7.3	98
219	Tunable molecular orientation and elevated thermal stability of vapor-deposited organic semiconductors. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4227-4232.	3.3	188
220	Blue-phase liquid crystal droplets. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13195-13200.	3.3	48
221	Molecular pathways for defect annihilation in directed self-assembly. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14144-14149.	3.3	98
222	Theoretically informed Monte Carlo simulation of liquid crystals by sampling of alignment-tensor fields. Journal of Chemical Physics, 2015, 143, 044107.	1.2	22
223	An Analysis of Biomolecular Force Fields for Simulations of Polyglutamine in Solution. Biophysical Journal, 2015, 109, 1009-1018.	0.2	40
224	Self-consistent description of electrokinetic phenomena in particle-based simulations. Journal of Chemical Physics, 2015, 143, 014108.	1.2	8
225	Orientational anisotropy in simulated vapor-deposited molecular glasses. Journal of Chemical Physics, 2015, 143, 094502.	1.2	59
226	Liquid crystal free energy relaxation by a theoretically informed Monte Carlo method using a finite element quadrature approach. Journal of Chemical Physics, 2015, 143, 243157.	1.2	13
227	Secondary Structure of Rat and Human Amylin across Force Fields. PLoS ONE, 2015, 10, e0134091.	1.1	47
228	Defect Removal in the Course of Directed Self-Assembly is Facilitated in the Vicinity of the Order-Disorder Transition. Physical Review Letters, 2014, 113, 168301.	2.9	97
229	DNA Shape Dominates Sequence Affinity in Nucleosome Formation. Physical Review Letters, 2014, 113, 168101.	2.9	78
230	Coarse-grained modeling of DNA curvature. Journal of Chemical Physics, 2014, 141, 165103.	1.2	106
231	Surface Adsorption in Nonpolarizable Atomic Models. Journal of Chemical Theory and Computation, 2014, 10, 5616-5624.	2.3	4
232	Molecular modeling of vapor-deposited polymer glasses. Journal of Chemical Physics, 2014, 140, 204504.	1.2	32
233	Endohedral confinement of a DNA dodecamer onto pristine carbon nanotubes and the stability of the canonical B form. Journal of Chemical Physics, 2014, 140, 225103.	1.2	17
234	Basis Function Sampling: A New Paradigm for Material Property Computation. Physical Review Letters, 2014, 113, 190602.	2.9	17

#	ARTICLE	IF	CITATIONS
235	Ternary, Tunable Polyelectrolyte Complex Fluids Driven by Complex Coacervation. <i>Macromolecules</i> , 2014, 47, 3076-3085.	2.2	127
236	Interfacial Tension of Polyelectrolyte Complex Coacervate Phases. <i>ACS Macro Letters</i> , 2014, 3, 565-568.	2.3	135
237	Evolutionary Optimization of Directed Self-Assembly of Triblock Copolymers on Chemically Patterned Substrates. <i>ACS Macro Letters</i> , 2014, 3, 747-752.	2.3	64
238	Coarse-grained modeling of DNA oligomer hybridization: Length, sequence, and salt effects. <i>Journal of Chemical Physics</i> , 2014, 141, 035102.	1.2	58
239	Reversible Switching of Liquid Crystalline Order Permits Synthesis of Homogeneous Populations of Dipolar Patchy Microparticles. <i>Advanced Functional Materials</i> , 2014, 24, 6219-6226.	7.8	26
240	Organized assemblies of colloids formed at the poles of micrometer-sized droplets of liquid crystal. <i>Soft Matter</i> , 2014, 10, 8821-8828.	1.2	28
241	Block Copolymer Assembly on Nanoscale Patterns of Polymer Brushes Formed by Electrohydrodynamic Jet Printing. <i>ACS Nano</i> , 2014, 8, 6606-6613.	7.3	52
242	Physical verification and manufacturing of contact/via layers using grapho-epitaxy DSA processes. <i>Proceedings of SPIE</i> , 2014, , .	0.8	8
243	Dynamical Simulations of Coarse Grain Polymeric Systems: Rouse and Entangled Dynamics. <i>Macromolecules</i> , 2013, 46, 6287-6299.	2.2	59
244	Liquid Crystals: Colloid-in-Liquid Crystal Gels that Respond to Biomolecular Interactions (Small) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	5.2	0
245	Presentation of Large DNA Molecules for Analysis as Nanoconfined Dumbbells. <i>Macromolecules</i> , 2013, 46, 8356-8368.	2.2	39
246	Effect of Proline Mutations on the Monomer Conformations of Amylin. <i>Biophysical Journal</i> , 2013, 105, 1227-1235.	0.2	51
247	An experimentally-informed coarse-grained 3-site-per-nucleotide model of DNA: Structure, thermodynamics, and dynamics of hybridization. <i>Journal of Chemical Physics</i> , 2013, 139, 144903.	1.2	191
248	Evolutionary pattern design for copolymer directed self-assembly. <i>Soft Matter</i> , 2013, 9, 11467.	1.2	57
249	Nematic-Field-Driven Positioning of Particles in Liquid Crystal Droplets. <i>Physical Review Letters</i> , 2013, 111, 227801.	2.9	50
250	Ultrastable glasses from in silico vapour deposition. <i>Nature Materials</i> , 2013, 12, 139-144.	13.3	213
251	Chemical Patterns for Directed Self-Assembly of Lamellae-Forming Block Copolymers with Density Multiplication of Features. <i>Macromolecules</i> , 2013, 46, 1415-1424.	2.2	201
252	Liquid Crystal-Based Emulsions for Synthesis of Spherical and Non-Spherical Particles with Chemical Patches. <i>Journal of the American Chemical Society</i> , 2013, 135, 9972-9975.	6.6	63

#	ARTICLE	IF	CITATIONS
253	Theoretically informed entangled polymer simulations: linear and non-linear rheology of melts. <i>Soft Matter</i> , 2013, 9, 2030.	1.2	43
254	Model vapor-deposited glasses: Growth front and composition effects. <i>Journal of Chemical Physics</i> , 2013, 139, 144505.	1.2	79
255	Topcoat Approaches for Directed Self-Assembly of Strongly Segregating Block Copolymer Thin Films. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2013, 26, 55-58.	0.1	52
256	Heterogeneous Segmental Dynamics during Creep and Constant Strain Rate Deformations of Rod-Containing Polymer Nanocomposites. <i>Macromolecules</i> , 2012, 45, 8467-8481.	2.2	16
257	Fast relaxation and elasticity-related properties of trehalose-glycerol mixtures. <i>Soft Matter</i> , 2012, 8, 4936.	1.2	18
258	Dynamics and Deformation Response of Rod-Containing Nanocomposites. <i>Macromolecules</i> , 2012, 45, 543-554.	2.2	42
259	Free Energy of Defects in Ordered Assemblies of Block Copolymer Domains. <i>ACS Macro Letters</i> , 2012, 1, 418-422.	2.3	107
260	Liquid crystal nanodroplets, and the balance between bulk and interfacial interactions. <i>Soft Matter</i> , 2012, 8, 1443-1450.	1.2	32
261	Efficient Free Energy Calculation of Biomolecules from Diffusion-Biased Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 4657-4662.	2.3	10
262	Morphology of Lamellae-Forming Block Copolymer Films between Two Orthogonal Chemically Nanopatterned Striped Surfaces. <i>Physical Review Letters</i> , 2012, 108, 065502.	2.9	34
263	Evolution of fivefold local symmetry during crystal nucleation and growth in dense hard-sphere packings. <i>Soft Matter</i> , 2012, 8, 844-858.	1.2	46
264	Liquid-crystal-mediated self-assembly at nanodroplet interfaces. <i>Nature</i> , 2012, 485, 86-89.	13.7	91
265	Liquid Crystal Mediated Interactions Between Nanoparticles in a Nematic Phase. <i>Langmuir</i> , 2012, 28, 6124-6131.	1.6	52
266	Morphological transitions in liquid crystal nanodroplets. <i>Soft Matter</i> , 2012, 8, 8679.	1.2	61
267	Study of volume phase transitions in polymeric nanogels by theoretically informed coarse-grained simulations. <i>Soft Matter</i> , 2011, 7, 5965.	1.2	79
268	Morphologies of Linear Triblock Copolymers from Monte Carlo Simulations. <i>Macromolecules</i> , 2011, 44, 5490-5497.	2.2	51
269	Influence of Nanorod Inclusions on Structure and Primitive Path Network of Polymer Nanocomposites at Equilibrium and Under Deformation. <i>Macromolecules</i> , 2011, 44, 1034-1045.	2.2	91
270	Cavitation and Crazing in Rod-Containing Nanocomposites. <i>Macromolecules</i> , 2011, 44, 5498-5509.	2.2	61

#	ARTICLE	IF	CITATIONS
271	Coarse-Grained Simulations of Macromolecules: From DNA to Nanocomposites. Annual Review of Physical Chemistry, 2011, 62, 555-574.	4.8	126
272	Effects of anchoring strength on the diffusivity of nanoparticles in model liquid-crystalline fluids. Soft Matter, 2011, 7, 6828.	1.2	37
273	Endotoxin-Induced Structural Transformations in Liquid Crystalline Droplets. Science, 2011, 332, 1297-1300.	6.0	339
274	Flux Tempered Metadynamics. Journal of Statistical Physics, 2011, 145, 932-945.	0.5	32
275	Monte-Carlo simulation of ternary blends of block copolymers and homopolymers. Journal of Chemical Physics, 2011, 135, 114904.	1.2	13
276	A molecular view of vapor deposited glasses. Journal of Chemical Physics, 2011, 134, 194903.	1.2	80
277	Cross-sectional Imaging of Block Copolymer Thin Films on Chemically Patterned Surfaces. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2010, 23, 149-154.	0.1	14
278	Shape control and density multiplication of cylinder-forming ternary block copolymer-homopolymer blend thin films on chemical patterns. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, C6B24-C6B29.	0.6	7
279	Association Free Energy of DNA Oligonucleotides from Expanded Ensembles. , 2010, , .		0
280	Interpolation in the Directed Assembly of Block Copolymers on Nanopatterned Substrates: Simulation and Experiments. Macromolecules, 2010, 43, 3446-3454.	2.2	131
281	Remediation of Line Edge Roughness in Chemical Nanopatterns by the Directed Assembly of Overlying Block Copolymer Films. Macromolecules, 2010, 43, 2334-2342.	2.2	81
282	Antiplasticization and the elastic properties of glass-forming polymer liquids. Soft Matter, 2010, 6, 292-304.	1.2	97
283	Flow induced deformation of defects around nanoparticles and nanodroplets suspended in liquid crystals. Soft Matter, 2010, 6, 896.	1.2	35
284	Heterogeneous dynamics during deformation of a polymer glass. Soft Matter, 2010, 6, 287-291.	1.2	96
285	Simulations of theoretically informed coarse grain models of polymeric systems. Faraday Discussions, 2010, 144, 111-125.	1.6	53
286	Mechanical properties of antiplasticized polymer nanostructures. Soft Matter, 2010, 6, 2475.	1.2	63
287	Directed Assembly of a Cylinder-Forming Diblock Copolymer: Topographic and Chemical Patterns. Macromolecules, 2010, 43, 6495-6504.	2.2	57
288	Hydrodynamic effects on the translocation rate of a polymer through a pore. Journal of Chemical Physics, 2009, 131, 044904.	1.2	27

#	ARTICLE	IF	CITATIONS
289	Theoretically informed coarse grain simulations of polymeric systems. <i>Journal of Chemical Physics</i> , 2009, 131, 084903.	1.2	113
290	Nanoscale Pattern Formation in Polyelectrolyte Gels. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1234, 1.	0.1	0
291	Characterization of Adsorbate-Induced Ordering Transitions of Liquid Crystals within Monodisperse Droplets. <i>Langmuir</i> , 2009, 25, 9016-9024.	1.6	102
292	A Mesoscale Model of DNA and Its Renaturation. <i>Biophysical Journal</i> , 2009, 96, 1675-1690.	0.2	156
293	Monte Carlo Simulation of Coarse Grain Polymeric Systems. <i>Physical Review Letters</i> , 2009, 102, 197801.	2.9	126
294	Theoretically informed coarse grain simulations of block copolymer melts: method and applications. <i>Soft Matter</i> , 2009, 5, 4858.	1.2	91
295	Multiple free energy minima in systems of confined tethered polymers toward soft nanomechanical bistable elements. <i>Soft Matter</i> , 2009, 5, 3694.	1.2	4
296	Monte Carlo Simulations of a Coarse Grain Model for Block Copolymers and Nanocomposites. <i>Macromolecules</i> , 2008, 41, 4989-5001.	2.2	198
297	Density Multiplication and Improved Lithography by Directed Block Copolymer Assembly. <i>Science</i> , 2008, 321, 936-939.	6.0	1,099
298	Rapid Directed Assembly of Block Copolymer Films at Elevated Temperatures. <i>Macromolecules</i> , 2008, 41, 2759-2761.	2.2	145
299	Nonlinear Creep in a Polymer Glass. <i>Macromolecules</i> , 2008, 41, 4969-4977.	2.2	85
300	Dipole-induced self-assembly of helical β -peptides. <i>Journal of Chemical Physics</i> , 2008, 129, 015102.	1.2	16
301	A coarse grain model for DNA. <i>Journal of Chemical Physics</i> , 2007, 126, 084901.	1.2	271
302	Characterization of the interactions between synthetic nematic LCs and model cell membranes. <i>Liquid Crystals</i> , 2007, 34, 1387-1396.	0.9	6
303	Directed Self-Assembly of Block Copolymers for Nanolithography: Fabrication of Isolated Features and Essential Integrated Circuit Geometries. <i>ACS Nano</i> , 2007, 1, 168-175.	7.3	424
304	Fast Computation of Many-Particle Hydrodynamic and Electrostatic Interactions in a Confined Geometry. <i>Physical Review Letters</i> , 2007, 98, 140602.	2.9	134
305	Calculation of local mechanical properties of filled polymers. <i>Physical Review E</i> , 2007, 75, 031803.	0.8	96
306	Concentration dependence of shear and extensional rheology of polymer solutions: Brownian dynamics simulations. <i>Journal of Rheology</i> , 2006, 50, 137-167.	1.3	80

#	ARTICLE	IF	CITATIONS
307	Fabrication of Complex Three-Dimensional Nanostructures from Self-Assembling Block Copolymer Materials on Two-Dimensional Chemically Patterned Templates with Mismatched Symmetry. <i>Physical Review Letters</i> , 2006, 96, 036104.	2.9	110
308	Cross-stream-line migration in confined flowing polymer solutions: Theory and simulation. <i>Physics of Fluids</i> , 2006, 18, 123101.	1.6	59
309	Anisotropic nanoparticles immersed in a nematic liquid crystal: Defect structures and potentials of mean force. <i>Physical Review E</i> , 2006, 74, 011711.	0.8	63
310	Measurement of the Azimuthal Anchoring Energy of Liquid Crystals in Contact with Oligo(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 <i>Langmuir</i> , 2006, 22, 4654-4659.	1.6	31
311	Anchoring Energies of Liquid Crystals Measured on Surfaces Presenting Oligopeptides. <i>Langmuir</i> , 2006, 22, 7776-7782.	1.6	19
312	Directed assembly of copolymer materials on patterned substrates: Balance of simple symmetries in complex structures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 2589-2604.	2.4	19
313	Morphology of multi-component polymer systems: single chain in mean field simulation studies. <i>Soft Matter</i> , 2006, 2, 573-583.	1.2	134
314	NlogN method for hydrodynamic interactions of confined polymer systems: Brownian dynamics. <i>Journal of Chemical Physics</i> , 2006, 125, 164906.	1.2	32
315	Molecular and multiscale modeling in chemical engineering - current view and future perspectives. <i>AIChE Journal</i> , 2005, 51, 2371-2376.	1.8	47
316	Defect structures and three-body potential of the mean force for nanoparticles in a nematic host. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 1033-1040.	2.4	17
317	Mechanism and kinetics of ordering in diblock copolymer thin films on chemically nanopatterned substrates. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 3444-3459.	2.4	89
318	Influence of Surfactant Tail Branching and Organization on the Orientation of Liquid Crystals at Aqueous~Liquid Crystal Interfaces. <i>Langmuir</i> , 2005, 21, 6805-6814.	1.6	120
319	Statistical calculation of elastic moduli for atomistic models. <i>Physical Review B</i> , 2005, 71, .	1.1	44
320	Directed Assembly of Block Copolymer Blends into Nonregular Device-Oriented Structures. <i>Science</i> , 2005, 308, 1442-1446.	6.0	912
321	Conformation and dynamics of single DNA molecules in parallel-plate slit microchannels. <i>Physical Review E</i> , 2004, 70, 060901.	0.8	139
322	Mechanical Heterogeneities in Model Polymer Glasses at Small Length Scales. <i>Physical Review Letters</i> , 2004, 93, 175501.	2.9	214
323	Epitaxial self-assembly of block copolymers on lithographically defined nanopatterned substrates. <i>Nature</i> , 2003, 424, 411-414.	13.7	1,594
324	Calculation of interfacial tension from density of states. <i>Journal of Chemical Physics</i> , 2003, 118, 4226-4229.	1.2	30

#	ARTICLE	IF	CITATIONS
325	Density of states simulations of proteins. <i>Journal of Chemical Physics</i> , 2003, 118, 4285-4290.	1.2	102
326	Fast Calculation of the Density of States of a Fluid by Monte Carlo Simulations. <i>Physical Review Letters</i> , 2003, 90, 035701.	2.9	143
327	Density of states of a binary Lennard-Jones glass. <i>Journal of Chemical Physics</i> , 2003, 119, 4405-4408.	1.2	55
328	A new double-rebridging technique for linear polyethylene. <i>Journal of Chemical Physics</i> , 2003, 119, 2456-2462.	1.2	54
329	Behavior of single nanoparticle/homopolymer chain in ordered structures of diblock copolymers. <i>Journal of Chemical Physics</i> , 2003, 118, 11278-11285.	1.2	54
330	Effect of confinement on DNA dynamics in microfluidic devices. <i>Journal of Chemical Physics</i> , 2003, 119, 1165-1173.	1.2	160
331	Monte Carlo simulations and dynamic field theory for suspended particles in liquid crystalline systems. <i>Journal of Chemical Physics</i> , 2003, 119, 2444-2455.	1.2	25
332	Density of States Simulations of Proteins, Liquid Crystals, and DNA. <i>AIP Conference Proceedings</i> , 2003, , ,	0.3	0
333	A biased Monte Carlo technique for calculation of the density of states of polymer films. <i>Journal of Chemical Physics</i> , 2002, 116, 7238-7243.	1.2	52
334	Evidence for size-dependent mechanical properties from simulations of nanoscopic polymeric structures. <i>Journal of Chemical Physics</i> , 2002, 116, 9939-9951.	1.2	84
335	Segmental dynamics in a blend of alkanes: Nuclear magnetic resonance experiments and molecular dynamics simulation. <i>Journal of Chemical Physics</i> , 2002, 116, 8209-8217.	1.2	18
336	Density-of-states Monte Carlo method for simulation of fluids. <i>Journal of Chemical Physics</i> , 2002, 116, 8745-8749.	1.2	159
337	Effects of charge, size, and shape-asymmetry on the phase behavior of model electrolytes. <i>Journal of Chemical Physics</i> , 2002, 116, 2967-2972.	1.2	19
338	Stochastic simulations of DNA in flow: Dynamics and the effects of hydrodynamic interactions. <i>Journal of Chemical Physics</i> , 2002, 116, 7752-7759.	1.2	252
339	Monte Carlo simulation of proteins through a random walk in energy space. <i>Journal of Chemical Physics</i> , 2002, 116, 7225-7230.	1.2	107
340	Monte Carlo Simulations of Asymmetric Diblock Copolymer Thin Films Confined between Two Homogeneous Surfaces. <i>Macromolecules</i> , 2001, 34, 3458-3470.	2.2	192
341	Phase equilibria and clustering in size-asymmetric primitive model electrolytes. <i>Journal of Chemical Physics</i> , 2001, 114, 1727-1731.	1.2	43
342	Monte Carlo simulations of Wyoming sodium montmorillonite hydrates. <i>Journal of Chemical Physics</i> , 2001, 114, 1405-1413.	1.2	166

#	ARTICLE	IF	CITATIONS
343	Calorimetric Solution Properties of Simple Saccharides and Their Significance for the Stabilization of Biological Structure and Function. <i>Journal of Physical Chemistry B</i> , 2000, 104, 8876-8883.	1.2	120
344	Symmetric diblock copolymer thin films confined between homogeneous and patterned surfaces: Simulations and theory. <i>Journal of Chemical Physics</i> , 2000, 112, 9996-10010.	1.2	84
345	Monte Carlo simulations of diblock copolymer thin films confined between two homogeneous surfaces. <i>Journal of Chemical Physics</i> , 2000, 112, 450-464.	1.2	167
346	Hydrodynamic interactions in long chain polymers: Application of the Chebyshev polynomial approximation in stochastic simulations. <i>Journal of Chemical Physics</i> , 2000, 113, 2894-2900.	1.2	153
347	Critical behavior of lattice polymers studied by Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2000, 113, 5954-5957.	1.2	35
348	Thermodynamic and transport properties of nitrogen and butane mixtures. <i>Molecular Physics</i> , 2000, 98, 43-55.	0.8	35
349	Hyperparallel tempering Monte Carlo simulation of polymeric systems. <i>Journal of Chemical Physics</i> , 2000, 113, 1276-1282.	1.2	107
350	Applications of molecular modeling in nanolithography. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1999, 17, 3371.	1.6	12
351	Simulation of swelling of model polymeric gels by subcritical and supercritical solvents. <i>Journal of Chemical Physics</i> , 1999, 110, 1290-1298.	1.2	19
352	SIMULATION OF PHASE TRANSITIONS IN FLUIDS. <i>Annual Review of Physical Chemistry</i> , 1999, 50, 377-411.	4.8	94
353	Solubility of Small Molecules and Their Mixtures in Polyethylene. <i>Journal of Physical Chemistry B</i> , 1999, 103, 3539-3544.	1.2	42
354	Density functional theory of molecular structure for thin diblock copolymer films on chemically heterogeneous surfaces. <i>Journal of Chemical Physics</i> , 1999, 110, 7483-7490.	1.2	51
355	Viscosity and Glass Transition Temperature of Aqueous Mixtures of Trehalose with Borax and Sodium Chloride. <i>Journal of Physical Chemistry B</i> , 1999, 103, 10243-10249.	1.2	54
356	Hyper-parallel tempering Monte Carlo: Application to the Lennard-Jones fluid and the restricted primitive model. <i>Journal of Chemical Physics</i> , 1999, 111, 9509-9516.	1.2	300
357	Stabilization of lactate dehydrogenase following freeze thawing and vacuum-drying in the presence of trehalose and borate. <i>Pharmaceutical Research</i> , 1998, 15, 1215-1221.	1.7	87
358	Phase equilibria in binary polymer blends: Integral equation approach. <i>Journal of Chemical Physics</i> , 1998, 109, 10042-10052.	1.2	15
359	Pseudo-ensemble simulations and Gibbs' Duhem integrations for polymers. <i>Journal of Chemical Physics</i> , 1997, 106, 2911-2923.	1.2	37
360	Monte Carlo simulation of polymer chain collapse in an athermal solvent. <i>Journal of Chemical Physics</i> , 1997, 106, 1288-1290.	1.2	31

#	ARTICLE	IF	CITATIONS
361	Simulation and theory of the swelling of athermal gels. <i>Journal of Chemical Physics</i> , 1997, 106, 793-810.	1.2	57
362	Monte Carlo simulation of athermal mesogenic chains: Pure systems, mixtures, and constrained environments. <i>Journal of Chemical Physics</i> , 1997, 106, 9858-9868.	1.2	68
363	Thermophysical properties of trehalose and its concentrated aqueous solutions. <i>Pharmaceutical Research</i> , 1997, 14, 578-590.	1.7	201
364	Expanded grand canonical and Gibbs ensemble Monte Carlo simulation of polymers. <i>Journal of Chemical Physics</i> , 1996, 105, 4391-4394.	1.2	194
365	Monte Carlo simulation of branched and crosslinked polymers. <i>Journal of Chemical Physics</i> , 1996, 104, 4788-4801.	1.2	69
366	Simulation and prediction of vapour-liquid equilibria for chain molecules. <i>Molecular Physics</i> , 1996, 87, 347-366.	0.8	90
367	Thermodynamic modeling of concentrated aqueous electrolyte and nonelectrolyte solutions. <i>AIChE Journal</i> , 1995, 41, 1563-1571.	1.8	13
368	A new method for generating volume changes in isobaric-isothermal Monte Carlo simulations of flexible molecules. <i>Macromolecular Theory and Simulations</i> , 1995, 4, 691-707.	0.6	19
369	Structure of binary polymer blends: Multiple time step hybrid Monte Carlo simulations and self-consistent integral equation theory. <i>Journal of Chemical Physics</i> , 1995, 103, 8247-8256.	1.2	38
370	Monte Carlo simulation of the chemical potential of polymers in an expanded ensemble. <i>Journal of Chemical Physics</i> , 1995, 103, 2703-2710.	1.2	110
371	Chemical potential and equations of state of hard core chain molecules. <i>Journal of Chemical Physics</i> , 1995, 103, 1946-1956.	1.2	48
372	Transport properties of polymer melts from nonequilibrium molecular dynamics. <i>Journal of Chemical Physics</i> , 1995, 102, 5836-5844.	1.2	58
373	Anisotropic friction and excluded volume effects in freely jointed bead-rod polymer chain models. <i>Journal of Chemical Physics</i> , 1994, 101, 5293-5304.	1.2	16
374	Bond-bias simulation of phase equilibria for strongly associating fluids. <i>Journal of Chemical Physics</i> , 1994, 101, 1477-1489.	1.2	42
375	Monte carlo simulation of polymers in steady potential flows. <i>Macromolecular Theory and Simulations</i> , 1994, 3, 177-184.	0.6	5
376	Monte Carlo Methods for Polymeric Systems. <i>Advances in Chemical Physics</i> , 0, , 337-367.	0.3	5
377	Simulation and prediction of vapour-liquid equilibria for chain molecules. , 0, .		11
378	Bottom-Up Multiscale Approach to Estimate Viscoelastic Properties of Entangled Polymer Melts with High Glass Transition Temperature. <i>Macromolecules</i> , 0, , .	2.2	4