

# Glenn H Fredrickson

## List of Publications by Citations

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188  
papers

18,162  
citations

57  
h-index

133  
g-index

204  
ext. papers

19,595  
ext. citations

5.9  
avg, IF

6.97  
L-index

#	Paper	IF	Citations
188	Block copolymer thermodynamics: theory and experiment. <i>Annual Review of Physical Chemistry</i> , <b>1990</b> , 41, 525-57	15.7	3200
187	Block Copolymers Designer Soft Materials. <i>Physics Today</i> , <b>1999</b> , 52, 32-38	0.9	2423
186	Fluctuation effects in the theory of microphase separation in block copolymers. <i>Journal of Chemical Physics</i> , <b>1987</b> , 87, 697-705	3.9	1137
185	Multiblock polymers: panacea or Pandora's box?. <i>Science</i> , <b>2012</b> , 336, 434-40	33.3	778
184	Composite mesostructures by nano-confinement. <i>Nature Materials</i> , <b>2004</b> , 3, 816-22	27	599
183	Field-Theoretic Computer Simulation Methods for Polymers and Complex Fluids. <i>Macromolecules</i> , <b>2002</b> , 35, 16-39	5.5	583
182	Evolution of block copolymer lithography to highly ordered square arrays. <i>Science</i> , <b>2008</b> , 322, 429-32	33.3	532
181	Combinatorial Screening of Complex Block Copolymer Assembly with Self-Consistent Field Theory. <i>Physical Review Letters</i> , <b>1999</b> , 83, 4317-4320	7.4	459
180	Fluctuation effects in a symmetric diblock copolymer near the order-disorder transition. <i>Journal of Chemical Physics</i> , <b>1990</b> , 92, 6255-6270	3.9	390
179	Large fluctuations in polymer solutions under shear. <i>Physical Review Letters</i> , <b>1989</b> , 62, 2468-2471	7.4	332
178	Stability of the Gyroid Phase in Diblock Copolymers at Strong Segregation. <i>Macromolecules</i> , <b>2006</b> , 39, 2449-2451	5.5	273
177	Polymeric Bicontinuous Microemulsions. <i>Physical Review Letters</i> , <b>1997</b> , 79, 849-852	7.4	270
176	Surfactant-induced lyotropic behavior of flexible polymer solutions. <i>Macromolecules</i> , <b>1993</b> , 26, 2825-2833	5.5	244
175	Hybrid particle-field simulations of polymer nanocomposites. <i>Physical Review Letters</i> , <b>2006</b> , 96, 250601	7.4	203
174	Entropic Corrections to the Flory-Huggins Theory of Polymer Blends: Architectural and Conformational Effects. <i>Macromolecules</i> , <b>1994</b> , 27, 2503-2511	5.5	187
173	The Equilibrium Theory of Inhomogeneous Polymers <b>2005</b> ,		165
172	Optimizing Chain Bridging in Complex Block Copolymers. <i>Macromolecules</i> , <b>2001</b> , 34, 5317-5324	5.5	163

171	Can a single function for $\chi$ account for block copolymer and homopolymer blend phase behavior?. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 2989-3000	3.9	153
170	Steady shear alignment of block copolymers near the isotropic-lamellar transition. <i>Journal of Rheology</i> , <b>1994</b> , 38, 1045-1067	4.1	140
169	Numerical Solution of Polymer Self-Consistent Field Theory. <i>Multiscale Modeling and Simulation</i> , <b>2004</b> , 2, 452-474	1.8	131
168	Fluctuation-induced first-order transition of an isotropic system to a periodic state. <i>Physical Review Letters</i> , <b>1988</b> , 61, 2229-2232	7.4	130
167	Complete Phase Diagram for Liquid-Liquid Phase Separation of Intrinsically Disordered Proteins. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 1644-1652	6.4	128
166	Collective and single-chain correlations near the block copolymer order-disorder transition. <i>Journal of Chemical Physics</i> , <b>1991</b> , 95, 1281-1289	3.9	128
165	Continuous polydispersity in a self-consistent field theory for diblock copolymers. <i>Journal of Chemical Physics</i> , <b>2004</b> , 121, 4974-86	3.9	127
164	Phase equilibria in copolymer/homopolymer ternary blends: Molecular weight effects. <i>Journal of Chemical Physics</i> , <b>1990</b> , 93, 2927-2938	3.9	126
163	Defectivity in Laterally Confined Lamella-Forming Diblock Copolymers: Thermodynamic and Kinetic Aspects. <i>Macromolecules</i> , <b>2012</b> , 45, 6253-6265	5.5	122
162	Complex coacervation: a field theoretic simulation study of polyelectrolyte complexation. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 224908	3.9	121
161	Conformational Asymmetry and Polymer-Polymer Thermodynamics. <i>Macromolecules</i> , <b>1994</b> , 27, 1065-1067	5.5	119
160	Allyl Glycidyl Ether-Based Polymer Electrolytes for Room Temperature Lithium Batteries. <i>Macromolecules</i> , <b>2013</b> , 46, 8988-8994	5.5	118
159	Fluctuation Effects in Ternary AB + A + B Polymeric Emulsions. <i>Macromolecules</i> , <b>2003</b> , 36, 9237-9248	5.5	112
158	Time-Dependent Reactive Coupling at Polymer-Polymer Interfaces. <i>Macromolecules</i> , <b>1996</b> , 29, 7386-7390	5.5	104
157	Improving brush polymer infrared one-dimensional photonic crystals via linear polymer additives. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 17374-7	16.4	103
156	Broadly Accessible Self-Consistent Field Theory for Block Polymer Materials Discovery. <i>Macromolecules</i> , <b>2016</b> , 49, 4675-4690	5.5	100
155	Theory of polyelectrolyte complexation-Complex coacervates are self-coacervates. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 224902	3.9	99
154	Semiflexible polymers near interfaces. <i>Physical Review Letters</i> , <b>1994</b> , 73, 3235-3238	7.4	98

153	Poly(allyl glycidyl ether)-A versatile and functional polyether platform. <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 4498-4504	2.5	93
152	Distribution of chain ends at the surface of a polymer melt: Compensation effects and surface tension. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1995</b> , 33, 2373-2389	2.6	88
151	SCFT Simulations of Thin Film Blends of Block Copolymer and Homopolymer Laterally Confined in a Square Well. <i>Macromolecules</i> , <b>2009</b> , 42, 5861-5872	5.5	87
150	Free energy evaluation in field-theoretic polymer simulations. <i>Physical Review Letters</i> , <b>2008</b> , 101, 138302	7.4	85
149	Cornucopia of Nanoscale Ordered Phases in Sphere-Forming Tetrablock Terpolymers. <i>ACS Nano</i> , <b>2016</b> , 10, 4961-72	16.7	79
148	Investigation of the interfacial tension of complex coacervates using field-theoretic simulations. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 024903	3.9	77
147	Block Copolymer Self Assembly during Rapid Solvent Evaporation: Insights into Cylinder Growth and Stability. <i>ACS Macro Letters</i> , <b>2014</b> , 3, 16-20	6.6	76
146	Effect of film thickness and domain spacing on defect densities in directed self-assembly of cylindrical morphology block copolymers. <i>ACS Nano</i> , <b>2012</b> , 6, 2629-41	16.7	75
145	PCHE-based pentablock copolymers: Evolution of a new plastic. <i>AIChE Journal</i> , <b>2001</b> , 47, 762-765	3.6	74
144	Stability of the A15 phase in diblock copolymer melts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 13194-13199	11.5	72
143	Microdomain Ordering in Laterally Confined Block Copolymer Thin Films. <i>Macromolecules</i> , <b>2007</b> , 40, 9570-9581	9.5	72
142	Narrow equilibrium window for complex coacervation of tau and RNA under cellular conditions. <i>ELife</i> , <b>2019</b> , 8,	8.9	72
141	Recent Developments in Fully Fluctuating Field-Theoretic Simulations of Polymer Melts and Solutions. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 7615-34	3.4	71
140	Supramolecular Diblock Copolymers: A Field-Theoretic Model and Mean-Field Solution. <i>Macromolecules</i> , <b>2007</b> , 40, 693-702	5.5	70
139	Molecular design of self-coacervation phenomena in block polyampholytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 8224-8232	11.5	66
138	Shear banding in polymer solutions. <i>Physics of Fluids</i> , <b>2013</b> , 25, 051703	4.4	65
137	Design of bicontinuous polymeric microemulsions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1997</b> , 35, 2775-2786	2.6	64
136	Introducing variable cell shape methods in field theory simulations of polymers. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 6694-700	3.4	64

135	Chain Architecture Effects on Deformation and Fracture of Block Copolymers with Unentangled Matrices. <i>Macromolecules</i> , <b>2002</b> , 35, 2157-2166	5.5	62
134	Field-theoretic simulations of polyelectrolyte complexation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2007</b> , 45, 3223-3230	2.6	61
133	Thermoreversible associating polymer networks. I. Interplay of thermodynamics, chemical kinetics, and polymer physics. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 224902	3.9	59
132	Dynamics and rheology of inhomogeneous polymeric fluids: A complex Langevin approach. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 6810-6820	3.9	58
131	Design of Soft and Strong Thermoplastic Elastomers Based on Nonlinear Block Copolymer Architectures Using Self-Consistent-Field Theory. <i>Macromolecules</i> , <b>2010</b> , 43, 3479-3486	5.5	54
130	The Role of Backbone Polarity on Aggregation and Conduction of Ions in Polymer Electrolytes. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 7055-7065	16.4	53
129	Diblock Copolymer Thin Films: A Field-Theoretic Simulation Study. <i>Macromolecules</i> , <b>2007</b> , 40, 4075-4087	5.5	50
128	Interfacial Roughening Induced by the Reaction of End-Functionalized Polymers at a PS/P2VP Interface: Quantitative Analysis by DSIMS. <i>Macromolecules</i> , <b>2005</b> , 38, 6106-6114	5.5	49
127	Field-theoretic simulations of confined polymer solutions. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 9030-9036	3.9	49
126	Toward Strong Thermoplastic Elastomers with Asymmetric Miktoarm Block Copolymer Architectures. <i>Macromolecules</i> , <b>2014</b> , 47, 2037-2043	5.5	48
125	Phase behavior of electrostatically complexed polyelectrolyte gels using an embedded fluctuation model. <i>Soft Matter</i> , <b>2015</b> , 11, 1214-25	3.6	47
124	A study of shear banding in polymer solutions. <i>Physics of Fluids</i> , <b>2014</b> , 26, 063101	4.4	45
123	Theory of Polydisperse Inhomogeneous Polymers. <i>Macromolecules</i> , <b>2003</b> , 36, 5415-5423	5.5	45
122	Influence of broken conformational symmetry on the surface enrichment of polymer blends. <i>Journal of Chemical Physics</i> , <b>1992</b> , 97, 8941-8946	3.9	45
121	Statistical field theory description of inhomogeneous polarizable soft matter. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 154104	3.9	45
120	Miktoarm Stars via Grafting-Through Copolymerization: Self-Assembly and the Star-to-Bottlebrush Transition. <i>Macromolecules</i> , <b>2019</b> , 52, 1794-1802	5.5	44
119	Dehydration entropy drives liquid-liquid phase separation by molecular crowding. <i>Communications Chemistry</i> , <b>2020</b> , 3,	6.3	43
118	Numerical Solutions of the Complex Langevin Equations in Polymer Field Theory. <i>Multiscale Modeling and Simulation</i> , <b>2008</b> , 6, 1347-1370	1.8	43

117	Efficient field-theoretic simulation of polymer solutions. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 224115	3.9	42
116	Synthesis and Self-Assembly of AB <sub>n</sub> Miktoarm Star Polymers. <i>ACS Macro Letters</i> , <b>2020</b> , 9, 396-403	6.6	41
115	Producing Small Domain Features Using Miktoarm Block Copolymers with Large Interaction Parameters. <i>ACS Macro Letters</i> , <b>2015</b> , 4, 1287-1292	6.6	41
114	Phase Morphologies in Reversibly Bonding Supramolecular Triblock Copolymer Blends. <i>Macromolecules</i> , <b>2007</b> , 40, 8445-8454	5.5	41
113	Theory of Diffusion-Controlled Reactions in Polymers under Flow. <i>Macromolecules</i> , <b>1996</b> , 29, 2674-2685	5.5	41
112	A multi-species exchange model for fully fluctuating polymer field theory simulations. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 174103	3.9	39
111	Polymer field-theory simulations on graphics processing units. <i>Computer Physics Communications</i> , <b>2013</b> , 184, 2102-2110	4.2	37
110	Field-theoretic simulations in the Gibbs ensemble. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 024104	3.9	37
109	Self-consistent field theory for diblock copolymers grafted to a sphere. <i>Soft Matter</i> , <b>2011</b> , 7, 5128	3.6	37
108	Processing-structure-mechanical property relationships of semicrystalline polyolefin-based block copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2010</b> , 48, 1428-1437	2.6	35
107	A multi-fluid model for microstructure formation in polymer membranes. <i>Soft Matter</i> , <b>2017</b> , 13, 3013-3030	3.6	34
106	Enhanced Block Copolymer Phase Separation Using Click Chemistry and Ionic Junctions. <i>ACS Macro Letters</i> , <b>2015</b> , 4, 1332-1336	6.6	34
105	Creating Extremely Asymmetric Lamellar Structures via Fluctuation-Assisted Unbinding of Miktoarm Star Block Copolymer Alloys. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 6160-3	16.4	33
104	Small ion effects on self-coacervation phenomena in block polyampholytes. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 034904	3.9	33
103	Fractal Hole Growth in Strained Block Copolymer Films. <i>Physical Review Letters</i> , <b>1998</b> , 81, 1861-1864	7.4	33
102	Design of miscible polyolefin copolymer blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1995</b> , 33, 1203-1212	2.6	30
101	Inverse Design of Bulk Morphologies in Multiblock Polymers Using Particle Swarm Optimization. <i>Macromolecules</i> , <b>2017</b> , 50, 6702-6709	5.5	28
100	Numerical coarse-graining of fluid field theories. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 034109	3.9	28

99	Aperiodic Bricks and Mortar Mesophase: a New Equilibrium State of Soft Matter and Application as a Stiff Thermoplastic Elastomer. <i>Macromolecules</i> , <b>2015</b> , 48, 5378-5384	5.5	27
98	Self-consistent field simulations of self- and directed-assembly in a mixed polymer brush. <i>Soft Matter</i> , <b>2011</b> , 7, 8776	3.6	27
97	Spectral collocation methods for polymer brushes. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 244905	3.9	27
96	The proline-rich domain promotes Tau liquid-liquid phase separation in cells. <i>Journal of Cell Biology</i> , <b>2020</b> , 219,	7.3	27
95	Mixed Conductive Soft Solids by Electrostatically Driven Network Formation of a Conjugated Polyelectrolyte. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1417-1426	9.6	26
94	Self-consistent field theory investigation of directed self-assembly in cylindrical confinement. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2015</b> , 53, 142-153	2.6	26
93	Thermodynamic and kinetic aspects of defectivity in directed self-assembly of cylinder-forming diblock copolymers in laterally confining thin channels. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	26
92	Architectural effects on the stability limits of ABC block copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1997</b> , 35, 849-864	2.6	26
91	Field-theoretic simulations of polymer solutions: finite-size and discretization effects. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 14904	3.9	25
90	Comparison of Pseudospectral Algorithms for Field-Theoretic Simulations of Polymers. <i>Macromolecules</i> , <b>2013</b> , 46, 8383-8391	5.5	24
89	Sequence Effects on Block Copolymer Self-Assembly through Tuning Chain Conformation and Segregation Strength Utilizing Sequence-Defined Polypeptoids. <i>Macromolecules</i> , <b>2019</b> , 52, 1277-1286	5.5	23
88	Supramolecular assembly in telechelic polymer blends. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 144906	3.9	23
87	Extreme Deflection of Phase Boundaries and Chain Bridging in A(BA?) <sub>n</sub> Miktoarm Star Polymers. <i>Macromolecules</i> , <b>2020</b> , 53, 513-522	5.5	23
86	Swarm Intelligence Platform for Multiblock Polymer Inverse Formulation Design. <i>ACS Macro Letters</i> , <b>2016</b> , 5, 972-976	6.6	22
85	Mass-transfer driven spinodal decomposition in a ternary polymer solution. <i>Soft Matter</i> , <b>2019</b> , 15, 4614-4628	3.6	21
84	On the Control of Surface Enrichment in Polymer Blends and Copolymers. <i>Macromolecules</i> , <b>1997</b> , 30, 2167-2174	5.5	21
83	Marangoni Flows during Nonsolvent Induced Phase Separation. <i>ACS Macro Letters</i> , <b>2018</b> , 7, 582-586	6.6	20
82	Cyclic Solvent Annealing Improves Feature Orientation in Block Copolymer Thin Films. <i>Macromolecules</i> , <b>2016</b> , 49, 1743-1751	5.5	20

81	Efficient Synthesis of Asymmetric Miktoarm Star Polymers. <i>Macromolecules</i> , <b>2020</b> , 53, 702-710	5.5	20
80	Complexation of a Conjugated Polyelectrolyte and Impact on Optoelectronic Properties. <i>ACS Macro Letters</i> , <b>2019</b> , 8, 88-94	6.6	19
79	Field-Theoretic Study of Salt-Induced Order and Disorder in a Polarizable Diblock Copolymer. <i>ACS Macro Letters</i> , <b>2019</b> , 8, 962-967	6.6	18
78	Dynamics of polymers: a mean-field theory. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 084902	3.9	18
77	Defects and their removal in block copolymer thin film simulations. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2006</b> , 44, 2495-2511	2.6	18
76	Tracer diffusion in fluctuating block copolymer melts. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1996</b> , 34, 163-171	2.6	17
75	Shear banding predictions for the two-fluid Rolie-Poly model. <i>Journal of Rheology</i> , <b>2016</b> , 60, 927-951	4.1	17
74	The effective $\zeta$ parameter in polarizable polymeric systems: One-loop perturbation theory and field-theoretic simulations. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 204903	3.9	17
73	The Hole Shrink Problem: Directed Self-Assembly Using Self-Consistent Field Theory. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , <b>2013</b> , 26, 15-20	0.7	16
72	Mechanisms of Asymmetric Membrane Formation in Nonsolvent-Induced Phase Separation. <i>ACS Macro Letters</i> , <b>2020</b> , 9, 1617-1624	6.6	15
71	Fddd network phase in ABA triblock copolymer melts. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2016</b> , 54, 1112-1117	2.6	14
70	Self-assembly in a mixed polymer brush with inhomogeneous grafting density composition. <i>Soft Matter</i> , <b>2013</b> , 9, 5341	3.6	14
69	Field-theoretic model of inhomogeneous supramolecular polymer networks and gels. <i>Journal of Chemical Physics</i> , <b>2010</b> , 133, 174903	3.9	14
68	Influence of conformational asymmetry on the surface enrichment of polymer blends II. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1995</b> , 33, 1343-1351	2.6	14
67	Liquid-liquid phase separation of Tau by self and complex coacervation. <i>Protein Science</i> , <b>2021</b> , 30, 1393-1407	4.9	14
66	Rapid Generation of Block Copolymer Libraries Using Automated Chromatographic Separation. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 9843-9849	16.4	13
65	Coherent states formulation of polymer field theory. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 024905	3.9	13
64	Complete Photonic Band Gaps with Nonfrustrated ABC Bottlebrush Block Polymers. <i>ACS Macro Letters</i> , <b>2020</b> , 9, 1074-1080	6.6	13



63	Improved self-assembly of poly(dimethylsiloxane-b-ethylene oxide) using a hydrogen-bonding additive. <i>Journal of Polymer Science Part A</i> , <b>2016</b> , 54, 2200-2208	2.5	13
62	Numerical self-consistent field theory of multicomponent polymer blends in the Gibbs ensemble. <i>Soft Matter</i> , <b>2013</b> , 9, 11288	3.6	12
61	The hole shrink problem: Theoretical studies of directed self-assembly in cylindrical confinement <b>2013</b> ,		12
60	Macro- and Microphase Separation in Multifunctional Supramolecular Polymer Networks. <i>Macromolecules</i> , <b>2011</b> , 44, 9411-9423	5.5	12
59	Contrasting Dielectric Properties of Electrolyte Solutions with Polar and Polarizable Solvents. <i>Physical Review Letters</i> , <b>2019</b> , 122, 128007	7.4	11
58	Monomer Sequence Effects on Interfacial Width and Mixing in Self-Assembled Diblock Copolymers. <i>Macromolecules</i> , <b>2020</b> , 53, 3262-3272	5.5	11
57	Genetic Algorithm for Discovery of Globally Stable Phases in Block Copolymers. <i>Macromolecules</i> , <b>2016</b> , 49, 6558-6567	5.5	11
56	Field-Theoretic Simulations of Fluctuation-Stabilized Aperiodic Bricks-and-Mortar Mesophase in Miktoarm Star Block Copolymer/Homopolymer Blends. <i>Macromolecules</i> , <b>2017</b> , 50, 6263-6272	5.5	11
55	Field-theoretic simulations: An emerging tool for probing soft material assembly. <i>MRS Bulletin</i> , <b>2018</b> , 43, 371-378	3.2	10
54	Phase Coexistence Calculations of Reversibly Bonded Block Copolymers: A Unit Cell Gibbs Ensemble Approach. <i>Macromolecules</i> , <b>2014</b> , 47, 1865-1874	5.5	10
53	Flow effects in the polymer cyclization reaction. <i>Macromolecular Theory and Simulations</i> , <b>1997</b> , 6, 169-180.	5	10
52	Architecture Effects in Complex Spherical Assemblies of (AB) <sub>n</sub> -Type Block Copolymers. <i>ACS Macro Letters</i> , <b>2020</b> , 9, 1745-1752	6.6	10
51	Learning composition-transferable coarse-grained models: Designing external potential ensembles to maximize thermodynamic information. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 154116	3.9	10
50	Functional level-set derivative for a polymer self consistent field theory Hamiltonian. <i>Journal of Computational Physics</i> , <b>2017</b> , 345, 207-223	4.1	9
49	SCFT Study of Diblock Copolymer Melts in Electric Fields: Selective Stabilization of Orthorhombic Fddd Network Phase. <i>Macromolecules</i> , <b>2018</b> , 51, 3369-3378	5.5	9
48	Absence of Electrostatic Rigidity in Conjugated Polyelectrolytes with Pendant Charges. <i>ACS Macro Letters</i> , <b>2019</b> , 8, 1147-1152	6.6	9
47	Directed self-assembly of linear arrays of block copolymer cylinders. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2015</b> , 53, 317-326	2.6	9
46	Reactions in microemulsions: Effect of thermal fluctuations on reaction kinetics. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 2901-2917	3.9	9

45	Coherent states field theory in supramolecular polymer physics. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 204904	3.9	9
44	Orientational Preference in Multilayer Block Copolymer Nanomeshes with Respect to Layer-to-Layer Commensurability. <i>Macromolecules</i> , <b>2017</b> , 50, 8258-8266	5.5	8
43	Theoretical prediction of an isotropic to nematic phase transition in bottlebrush homopolymer melts. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 094901	3.9	8
42	Connecting Solute Diffusion to Morphology in Triblock Copolymer Membranes. <i>Macromolecules</i> , <b>2020</b> , 53, 2336-2343	5.5	8
41	Computational Study of Directed Self-Assembly in Neutral Prepatterns for a Graphoepitaxial Pitch-Multiplication Application. <i>Macromolecules</i> , <b>2015</b> , 48, 1256-1261	5.5	8
40	Directed self-assembly of laterally confined lamellae-forming diblock copolymers: polydispersity and substrate interaction effects <b>2012</b> ,		8
39	Model for the rheology and nonlinear response of layered materials. <i>Journal of Rheology</i> , <b>2001</b> , 45, 161-185	16.5	8
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