

Murugappan Muthukumar

List of Publications by Year in descending order

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299
papers

18,327
citations

12597

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319
times ranked

11649
citing authors

#	ARTICLE	IF	CITATIONS
1	Zwitterionic Ammonium Sulfonate Polymers: Synthesis and Properties in Fluids. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100678.	2.0	4
2	Microstructural Organization in $\hat{\pm}$ -Synuclein Solutions. <i>Macromolecules</i> , 2022, 55, 4228-4236.	2.2	19
3	Coacervation in polyzwitterion-polyelectrolyte systems and their potential applications for gastrointestinal drug delivery platforms. <i>Nature Communications</i> , 2022, 13, 2250.	5.8	17
4	Boundaries of the Topologically Frustrated Dynamical State in Polymer Dynamics. <i>ACS Macro Letters</i> , 2022, 11, 699-705.	2.3	3
5	Theory of Microphase Separation in Concentrated Solutions of Sequence-Specific Charged Heteropolymers. <i>Macromolecules</i> , 2022, 55, 5535-5549.	2.2	3
6	Electrostatically Driven Topological Freezing of Polymer Diffusion at Intermediate Confinements. <i>Physical Review Letters</i> , 2021, 126, 057802.	2.9	15
7	Theory of Charged Gels: Swelling, Elasticity, and Dynamics. <i>Gels</i> , 2021, 7, 49.	2.1	18
8	Dynamics of driven polymer transport through a nanopore. <i>Nature Physics</i> , 2021, 17, 1043-1049.	6.5	40
9	Investigating the Atomic and Mesoscale Interactions that Facilitate Spider Silk Protein Pre-Assembly. <i>Biomacromolecules</i> , 2021, 22, 3377-3385.	2.6	6
10	Theory of Ionic Conductivity with Morphological Control in Polymers. <i>ACS Macro Letters</i> , 2021, 10, 958-964.	2.3	7
11	Entropic barrier of topologically immobilized DNA in hydrogels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	6
12	Characterization of silk-hyaluronic acid composite hydrogels towards vitreous humor substitutes. <i>Biomaterials</i> , 2020, 233, 119729.	5.7	73
13	Interplay between Microscopic and Macroscopic Properties of Charged Hydrogels. <i>Macromolecules</i> , 2020, 53, 90-101.	2.2	15
14	Trends in polymer physics and theory. <i>Progress in Polymer Science</i> , 2020, 100, 101184.	11.8	11
15	Surface Tension of Dielectric Air Interfaces. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5265-5270.	1.2	2
16	Understanding the effects of dipolar interactions on the thermodynamics of diblock copolymer melts. <i>Journal of Chemical Physics</i> , 2019, 151, 054902.	1.2	10
17	Interlude of metastability in the melting of polymer crystals. <i>Journal of Chemical Physics</i> , 2019, 151, 124903.	1.2	9
18	Theory of statistics of ties, loops, and tails in semicrystalline polymers. <i>Journal of Chemical Physics</i> , 2019, 151, 114905.	1.2	11

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19	Processing Pathways Decide Polymer Properties at the Molecular Level. <i>Macromolecules</i> , 2019, 52, 7146-7156.	2.2	105
20	Lower Critical Solution Temperature Behavior in Polyelectrolyte Complex Coacervates. <i>Macromolecules</i> , 2019, 52, 6998-7004.	2.2	34
21	Conformational fluctuations of a DNA electrophoretically translocating through a nanopore under the action of a motor protein. <i>European Physical Journal E</i> , 2019, 42, 67.	0.7	1
22	Collective dynamics of semidilute polyelectrolyte solutions with salt. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 1263-1269.	2.4	10
23	Effect of Salt on the Ordinary“Extraordinary Transition in Solutions of Charged Macromolecules. <i>Journal of the American Chemical Society</i> , 2019, 141, 5886-5896.	6.6	23
24	Kinetic Analysis of Single Molecule Electrodiffusion in a Biological Nanopore with Two Binding Sites. <i>Biophysical Journal</i> , 2019, 116, 148a.	0.2	0
25	Lower Critical Solution Temperature Behavior in Polyelectrolyte Complex Coacervates. <i>Macromolecules</i> , 2019, 52, .	2.2	2
26	Role of non-equilibrium conformations on driven polymer translocation. <i>Journal of Chemical Physics</i> , 2018, 148, 024903.	1.2	29
27	Preface: Special Topic on Chemical Physics of Charged Macromolecules. <i>Journal of Chemical Physics</i> , 2018, 149, 163001.	1.2	1
28	Anomalous packing and dynamics of a polymer chain confined in a static porous environment. <i>Journal of Chemical Physics</i> , 2018, 149, 174902.	1.2	4
29	Langevin dynamics simulation of crystallization of ring polymers. <i>Journal of Chemical Physics</i> , 2018, 148, 244904.	1.2	27
30	Polyelectrolyte complex coacervation by electrostatic dipolar interactions. <i>Journal of Chemical Physics</i> , 2018, 149, 163308.	1.2	69
31	Single molecule electrophoresis of star polymers through nanopores: Simulations. <i>Journal of Chemical Physics</i> , 2018, 149, 163306.	1.2	14
32	Electrostatic effects in collagen fibril formation. <i>Journal of Chemical Physics</i> , 2018, 149, 163333.	1.2	50
33	Topologically frustrated dynamics of crowded charged macromolecules in charged hydrogels. <i>Nature Communications</i> , 2018, 9, 2248.	5.8	24
34	Elasticity at Swelling Equilibrium of Ultrasoft Polyelectrolyte Gels: Comparisons of Theory and Experiments. <i>Macromolecules</i> , 2017, 50, 2456-2466.	2.2	27
35	Diffusion of Polyelectrolytes in Polyelectrolyte Gels. <i>Macromolecules</i> , 2017, 50, 8158-8168.	2.2	18
36	Effects of Nanopore Charge Decorations on the Translocation Dynamics of DNA. <i>Biophysical Journal</i> , 2017, 113, 1664-1672.	0.2	15

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37	Concentration Fluctuations near Lower Critical Solution Temperature in Ternary Aqueous Solutions. <i>Macromolecules</i> , 2017, 50, 7291-7298.	2.2	17
38	Adsorption and encapsulation of flexible polyelectrolytes in charged spherical vesicles. <i>Journal of Chemical Physics</i> , 2017, 146, 244901.	1.2	13
39	<i>50th Anniversary Perspective</i>: A Perspective on Polyelectrolyte Solutions. <i>Macromolecules</i> , 2017, 50, 9528-9560.	2.2	332
40	Stochastic resonance during a polymer translocation process. <i>Journal of Chemical Physics</i> , 2016, 144, 144901.	1.2	23
41	Ratchet rectification effect on the translocation of a flexible polyelectrolyte chain. <i>Journal of Chemical Physics</i> , 2016, 145, 084906.	1.2	18
42	Simulation of self-assembly of polyzwitterions into vesicles. <i>Journal of Chemical Physics</i> , 2016, 145, 074907.	1.2	7
43	Communication: Theory of melt-memory in polymer crystallization. <i>Journal of Chemical Physics</i> , 2016, 145, 031105.	1.2	71
44	Electrostatic Effect on the Solution Structure and Dynamics of PEDOT:PSS. <i>Macromolecules</i> , 2016, 49, 4286-4294.	2.2	56
45	Size-dependent forced PEG partitioning into channels: VDAC, OmpC, and $\hat{\pm}$ -hemolysin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9003-9008.	3.3	23
46	Electrostatic Control of Polymer Translocation Speed through $\hat{\pm}$ -Hemolysin Protein Pore. <i>Macromolecules</i> , 2016, 49, 9132-9138.	2.2	22
47	Translocation frequency of double-stranded DNA through a solid-state nanopore. <i>Physical Review E</i> , 2016, 93, 022401.	0.8	75
48	Rotational relaxation time as unifying time scale for polymer and fiber drag reduction. <i>Physical Review E</i> , 2016, 93, 052503.	0.8	4
49	Effects of long-range interactions on curvature energies of viral shells. <i>Physical Review E</i> , 2016, 93, 052415.	0.8	10
50	Electrostatic correlations in polyelectrolyte solutions. <i>Polymer Science - Series A</i> , 2016, 58, 852-863.	0.4	29
51	Ordinary“extraordinary transition in dynamics of solutions of charged macromolecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12627-12632.	3.3	48
52	Stability of the sectored morphology of polymer crystallites. <i>Physical Review E</i> , 2016, 94, 032506.	0.8	2
53	Development of a Vitreous Substitute: Incorporating Charges and Fibrous Structures in Synthetic Hydrogel Materials. <i>Macromolecules</i> , 2016, 49, 4619-4626.	2.2	20
54	Translocation of an Incompressible Vesicle through a Pore. <i>Journal of Physical Chemistry B</i> , 2016, 120, 6102-6109.	1.2	13

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55	Influence of Dipole Orientation on Solution Properties of Polyzwitterions. ACS Macro Letters, 2016, 5, 118-122.	2.3	53
56	Modeling competitive substitution in a polyelectrolyte complex. Journal of Chemical Physics, 2015, 143, 243133.	1.2	39
57	Scattering Studies on Poly(3,4-ethylenedioxythiophene)-Polystyrenesulfonate in the Presence of Ionic Liquids. Macromolecules, 2015, 48, 8989-8997.	2.2	35
58	Electroosmotic Flow Reversal Outside Glass Nanopores. Nano Letters, 2015, 15, 695-702.	4.5	49
59	Reading Nanopore Clocks in Single-Molecule Electrophoresis Experiments. Biophysical Journal, 2015, 108, 17-19.	0.2	5
60	Temperature Effect on Ionic Current and ssDNA Transport through Nanopores. Biophysical Journal, 2015, 109, 1600-1607.	0.2	45
61	Semibranched polyglycidols as fillers in polycarbonate hydrogels to tune hydrophobic drug release. Polymer Chemistry, 2015, 6, 1096-1102.	1.9	16
62	Communication: Charge, diffusion, and mobility of proteins through nanopores. Journal of Chemical Physics, 2014, 141, 081104.	1.2	57
63	Effect of charge patterns along a solid-state nanopore on polyelectrolyte translocation. Journal of Chemical Physics, 2014, 140, 135102.	1.2	39
64	High-Bandwidth Protein Analysis Using Solid-State Nanopores. Biophysical Journal, 2014, 106, 696-704.	0.2	209
65	Electrophoretic mobilities of counterions and a polymer in cylindrical pores. Journal of Chemical Physics, 2014, 141, 114901.	1.2	13
66	Determination of Molecular Weights in Polyelectrolyte Mixtures Using Polymer Translocation through a Protein Nanopore. ACS Macro Letters, 2014, 3, 911-915.	2.3	20
67	Polymer capture by α -hemolysin pore upon salt concentration gradient. Journal of Chemical Physics, 2014, 140, 015101.	1.2	27
68	Enhanced Phase Segregation Induced by Dipolar Interactions in Polymer Blends. Macromolecules, 2014, 47, 6491-6502.	2.2	42
69	Macromolecular Mechanisms of Protein Translocation. Protein and Peptide Letters, 2014, 21, 209-216.	0.4	10
70	Langevin dynamics simulation of DNA ejection from a phage. Journal of Biological Physics, 2013, 39, 229-245.	0.7	13
71	Kinetics pathway in the phase separation and crystallization of iPP/OBC blends. Polymer, 2013, 54, 4010-4016.	1.8	16
72	pH Tuning of DNA Translocation Time through Organically Functionalized Nanopores. ACS Nano, 2013, 7, 1408-1414.	7.3	114

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73	Apparent Molar Mass of a Polyelectrolyte in an Organic Solvent in the Low Ionic Strength Limit As Revealed by Light Scattering. <i>Macromolecules</i> , 2013, 46, 8296-8303.	2.2	6
74	Pierre-Gilles de Gennes: A Life in Science. <i>Pierre-Gilles de Gennes: A Life in Science</i> , Laurence PÃ©vert, World Scientific, Hackensack, NJ, 2011. \$48.00 (372 pp.). ISBN 978-981-4355-25-4 (paper). <i>Physics Today</i> , 2013, 66, 43-45.	0.3	0
75	Micellization model for the polymerization of clathrin baskets. <i>Journal of Chemical Physics</i> , 2013, 139, 121928.	1.2	9
76	Electrostatic origin of <i>in vitro</i> aggregation of human β -crystallin. <i>Journal of Chemical Physics</i> , 2013, 139, 121914.	1.2	16
77	Translocation of a heterogeneous polymer. <i>Journal of Chemical Physics</i> , 2012, 137, 064904.	1.2	27
78	Polymers Pushing Polymers: Polymer Mixtures in Thermodynamic Equilibrium with a Pore. <i>Macromolecules</i> , 2012, 45, 8921-8928.	2.2	10
79	Theory of volume transitions in polyelectrolyte gels. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1418, 75.	0.1	0
80	Theory of volume transition in polyelectrolyte gels with charge regularization. <i>Journal of Chemical Physics</i> , 2012, 136, 134901.	1.2	66
81	Counterion adsorption theory of dilute polyelectrolyte solutions: Apparent molecular weight, second virial coefficient, and intermolecular structure factor. <i>Journal of Chemical Physics</i> , 2012, 137, 034902.	1.2	17
82	Protein Transport through a Narrow Solid-State Nanopore at High Voltage: Experiments and Theory. <i>ACS Nano</i> , 2012, 6, 6236-6243.	7.3	126
83	Langevin dynamics simulation of polymer-assisted virus-like assembly. <i>Journal of Chemical Physics</i> , 2012, 136, 135101.	1.2	46
84	Encapsulation of a polyelectrolyte chain by an oppositely charged spherical surface. <i>Journal of Chemical Physics</i> , 2011, 135, 194901.	1.2	18
85	Chiral Symmetry Breaking in Crystals of Achiral Polymers. <i>Physical Review Letters</i> , 2010, 105, 107801.	2.9	18
86	Theory of capture rate in polymer translocation. <i>Journal of Chemical Physics</i> , 2010, 132, 195101.	1.2	134
87	Theory of spinodal decomposition assisted crystallization in binary mixtures. <i>Journal of Chemical Physics</i> , 2010, 132, .	1.2	52
88	Dynamic light scattering studies of ionic and nonionic polymer gels with continuous and discontinuous volume transitions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 2193-2206.	2.4	26
89	Effective Charge and Coil-Globule Transition of a Polyelectrolyte Chain. <i>Macromolecules</i> , 2010, 43, 2574-2581.	2.2	58
90	Charge regularization in phase separating polyelectrolyte solutions. <i>Journal of Chemical Physics</i> , 2010, 132, 084901.	1.2	40

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91	Polymer translocation through σ -hemolysin pore with tunable polymer-pore electrostatic interaction. Journal of Chemical Physics, 2010, 133, 045101.	1.2	111
92	Pattern formation in drying droplets of polyelectrolyte and salt. Journal of Chemical Physics, 2010, 133, 114905.	1.2	109
93	Conformation and dynamics of model polymer in connected chamber-pore system. Journal of Chemical Physics, 2009, 131, 214903.	1.2	15
94	Electrostatics of capsid-induced viral RNA organization. Journal of Chemical Physics, 2009, 131, .	1.2	43
95	Artificial Protein Block Copolymers Blocks Comprising Two Distinct Self-Assembling Domains. ChemBioChem, 2009, 10, 2733-2735.	1.3	44
96	Crossover Behavior of the Viscosity of Dilute and Semidilute Polyelectrolyte Solutions. Journal of Physical Chemistry B, 2009, 113, 5736-5745.	1.2	15
97	Enzyme-Modulated DNA Translocation through a Nanopore. Journal of the American Chemical Society, 2009, 131, 18563-18570.	6.6	19
98	Counterion Adsorption on Flexible Polyelectrolytes: Comparison of Theories. Macromolecules, 2009, 42, 1370-1379.	2.2	31
99	Phase behavior of polyelectrolyte solutions with salt. Journal of Chemical Physics, 2009, 130, 024904.	1.2	40
100	Origin of translocation barriers for polyelectrolyte chains. Journal of Chemical Physics, 2009, 131, 194903.	1.2	40
101	Research in Macromolecular Science: Challenges and Opportunities for the Next Decade. Macromolecules, 2009, 42, 465-471.	2.2	145
102	Simulations of nucleation and elongation of amyloid fibrils. Journal of Chemical Physics, 2009, 130, 035102.	1.2	115
103	Theory of competitive adsorption-nucleation in polypeptide-mediated biomineralization. Journal of Chemical Physics, 2009, 130, 161101.	1.2	15
104	Theory of competitive counterion adsorption on flexible polyelectrolytes: Divalent salts. Journal of Chemical Physics, 2008, 128, 244901.	1.2	115
105	Scaling Theory of Polymer Translocation into Confined Regions. Biophysical Journal, 2008, 95, 3619-3627.	0.2	30
106	Interactions between Antimicrobial Polynorbornenes and Phospholipid Vesicles Monitored by Light Scattering and Microcalorimetry. Langmuir, 2008, 24, 12489-12495.	1.6	60
107	Confinement free energy of flexible polyelectrolytes in spherical cavities. Journal of Chemical Physics, 2008, 128, 184902.	1.2	21
108	Collapse of Linear Polyelectrolyte Chains in a Poor Solvent: When Does a Collapsing Polyelectrolyte Collect its Counterions?. Macromolecules, 2008, 41, 9352-9358.	2.2	51

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109	Polymer translocation through a cylindrical channel. <i>Journal of Chemical Physics</i> , 2008, 128, 154903.	1.2	58
110	Polymer capture by electro-osmotic flow of oppositely charged nanopores. <i>Journal of Chemical Physics</i> , 2007, 126, 164903.	1.2	132
111	Continuum theory of polymer crystallization. <i>Journal of Chemical Physics</i> , 2007, 126, 144901.	1.2	29
112	Threading synthetic polyelectrolytes through protein pores. <i>Journal of Chemical Physics</i> , 2007, 126, 051101.	1.2	53
113	Microphase separation in polyelectrolytic diblock copolymer melt: Weak segregation limit. <i>Journal of Chemical Physics</i> , 2007, 126, 214902.	1.2	43
114	Langevin dynamics simulations of ds-DNA translocation through synthetic nanopores. <i>Journal of Chemical Physics</i> , 2007, 127, 015102.	1.2	77
115	Phase separation kinetics of polyelectrolyte solutions. <i>Journal of Chemical Physics</i> , 2007, 127, 244908.	1.2	31
116	Mechanism of DNA Transport Through Pores. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2007, 36, 435-450.	18.3	133
117	Monte Carlo simulations of single crystals from polymer solutions. <i>Journal of Chemical Physics</i> , 2007, 126, 234904.	1.2	47
118	Synthesis and Characterization of Polyolefin-graft-oligopeptide Polyelectrolytes. <i>Macromolecules</i> , 2007, 40, 7617-7624.	2.2	47
119	Langevin Dynamics Simulations of Genome Packing in Bacteriophage. <i>Biophysical Journal</i> , 2006, 91, 25-41.	0.2	132
120	Effect of Deprotection Extent on Swelling and Dissolution Regimes of Thin Polymer Films. <i>Langmuir</i> , 2006, 22, 10009-10015.	1.6	23
121	Electrostatic origin of the genome packing in viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 17174-17178.	3.3	219
122	Simulation of polymer translocation through protein channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 5273-5278.	3.3	123
123	Entropy and enthalpy of polyelectrolyte complexation: Langevin dynamics simulations. <i>Journal of Chemical Physics</i> , 2006, 124, 154902.	1.2	280
124	Polyelectrolyte Dynamics. <i>Advances in Chemical Physics</i> , 2005, , 1-60.	0.3	9
125	Langevin dynamics of semiflexible polyelectrolytes: Rod-toroid-globule-coil structures and counterion distribution. <i>Journal of Chemical Physics</i> , 2005, 123, 074905.	1.2	78
126	Fluctuation-Assisted Crystallization: In a Simultaneous Phase Separation and Crystallization Polyolefin Blend System. <i>Macromolecular Rapid Communications</i> , 2005, 26, 1285-1288.	2.0	110

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127	What a wonderful crossroad!. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 3375-3376.	2.4	0
128	Simulations of Stochastic Sensing of Proteins. Journal of the American Chemical Society, 2005, 127, 18252-18261.	6.6	37
129	Polymer translocation through a nanopore. II. Excluded volume effect. Journal of Chemical Physics, 2004, 120, 3460-3466.	1.2	105
130	Theory of counter-ion condensation on flexible polyelectrolytes: Adsorption mechanism. Journal of Chemical Physics, 2004, 120, 9343-9350.	1.2	344
131	Brownian dynamics simulations of bead-rod-chain in simple shear flow and elongational flow. Polymer, 2004, 45, 1383-1389.	1.8	58
132	Nucleation in Polymer Crystallization. Advances in Chemical Physics, 2004, , 1-63.	0.3	49
133	Polyelectrolyte chain dimensions and concentration fluctuations near phase boundaries. Journal of Chemical Physics, 2003, 119, 4085-4098.	1.2	74
134	Langevin dynamics simulations of early stage shish-kebab crystallization of polymers in extensional flow. Journal of Chemical Physics, 2003, 118, 6648-6655.	1.2	199
135	Molecular modelling of nucleation in polymers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 539-556.	1.6	119
136	Polymer escape through a nanopore. Journal of Chemical Physics, 2003, 118, 5174-5184.	1.2	232
137	Polyelectrolyte solutions with added salt: A simulation study. Journal of Chemical Physics, 2003, 119, 1813-1823.	1.2	128
138	Triple Points in Solutions of Polydisperse Semiflexible Polymers. Physical Review Letters, 2003, 91, 158303.	2.9	6
139	Monte Carlo studies of adsorption of a sequenced polyelectrolyte to patterned surfaces. Journal of Chemical Physics, 2002, 117, 5354-5360.	1.2	36
140	Langevin dynamics simulation of counterion distribution around isolated flexible polyelectrolyte chains. Journal of Chemical Physics, 2002, 116, 9975-9982.	1.2	166
141	Phase transitions in solutions of semiflexible polyelectrolytes. Journal of Chemical Physics, 2002, 116, 5299.	1.2	21
142	Phase Diagram of Polyelectrolyte Solutions: A Weak Polymer Effect. Macromolecules, 2002, 35, 9142-9145.	2.2	49
143	Theory of sequence effects on DNA translocation through proteins and nanopores. Electrophoresis, 2002, 23, 1417.	1.3	41
144	Modeling of polynucleotide translocation through protein pores and nanotubes. Electrophoresis, 2002, 23, 2697-2703.	1.3	84

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145	Translocation of a Confined Polymer through a Hole. <i>Physical Review Letters</i> , 2001, 86, 3188-3191.	2.9	323
146	Molecular Mechanisms of Polymer Crystallization from Solution. <i>Physical Review Letters</i> , 2001, 87, 218302.	2.9	191
147	Dimensions of polyelectrolyte chains and concentration fluctuations in semidilute solutions of sodium poly(styrene sulfonate) as measured by small-angle neutron scattering. <i>Polymer</i> , 2001, 42, 8935-8946.	1.8	55
148	Scattering properties of a single semiflexible polyelectrolyte. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 2644-2652.	2.4	13
149	Theory of viscoelastic properties of polyelectrolyte solutions. <i>Polymer</i> , 2001, 42, 5921-5923.	1.8	17
150	Configurational properties of a single semiflexible polyelectrolyte. <i>Journal of Chemical Physics</i> , 2001, 115, 4367-4375.	1.2	43
151	Confined thin film diblock copolymer in the presence of an electric field. <i>Journal of Chemical Physics</i> , 2001, 115, 1559-1564.	1.2	80
152	Modeling polymer crystallization from solutions. <i>Polymer</i> , 2000, 41, 8833-8837.	1.8	153
153	Commentary on theories of polymer crystallization. <i>European Physical Journal E</i> , 2000, 3, 199-202.	0.7	108
154	Polyelectrolyte adsorption on heterogeneously charged surfaces. <i>Journal of Chemical Physics</i> , 2000, 112, 8723-8729.	1.2	57
155	Polyelectrolyte Electrophoresis in a Dilute Solution of Neutral Polymers: A Model Studies. <i>Macromolecules</i> , 2000, 33, 1245-1253.	2.2	29
156	Dendrimer-Polyelectrolyte Complexation: A Model Guest-Host System. <i>Macromolecules</i> , 2000, 33, 6159-6167.	2.2	114
157	Statistics of an ideal polymer in a multistable potential: Exact solutions and instanton approximation. <i>Journal of Chemical Physics</i> , 1999, 110, 12240-12249.	1.2	11
158	Phase separation of polymer blend films near patterned surfaces. <i>Journal of Chemical Physics</i> , 1999, 111, 2259-2269.	1.2	58
159	Attractive interactions and phase transitions in solutions of similarly charged rod-like polyelectrolytes. <i>Journal of Chemical Physics</i> , 1999, 111, 1765-1777.	1.2	27
160	Coupling Between Adsorption and the Helix-Coil Transition. <i>Physical Review Letters</i> , 1999, 82, 5405-5408.	2.9	21
161	Effective elastic moduli of a composite containing rigid spheres at nondilute concentrations: A multiple scattering approach. <i>Journal of Chemical Physics</i> , 1999, 110, 1123-1137.	1.2	5
162	Chain entropy: Spoiler or benefactor in pattern recognition?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 11690-11692.	3.3	33

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163	Structure and dynamics of charged macromolecules: Minimal representation of biological systems. <i>Pramana - Journal of Physics</i> , 1999, 53, 171-197.	0.9	4
164	Brownian dynamics simulation of bead-rod chains under shear with hydrodynamic interaction. <i>Journal of Chemical Physics</i> , 1999, 111, 7614-7623.	1.2	79
165	Spinodal decomposition of symmetric diblock copolymer/homopolymer blends at the Lifshitz point. <i>Journal of Chemical Physics</i> , 1999, 110, 4079-4089.	1.2	24
166	Monte Carlo Simulations of Probe-Host Chain Entanglement: Influence of Host Mobility and Size on Probe Electrophoretic Motion. <i>Macromolecules</i> , 1999, 32, 6837-6840.	2.2	12
167	Structure Development during Crystallization of Homogeneous Copolymers of Ethene and 1-Octene: Time-Resolved Synchrotron X-ray and SALS Measurements. <i>Macromolecules</i> , 1999, 32, 765-770.	2.2	70
168	Polymer translocation through a hole. <i>Journal of Chemical Physics</i> , 1999, 111, 10371-10374.	1.2	478
169	Pattern recognition in self-assembly. <i>Current Opinion in Colloid and Interface Science</i> , 1998, 3, 48-54.	3.4	33
170	Self-consistent field theory of diblock copolymer melts at patterned surfaces. <i>Journal of Chemical Physics</i> , 1998, 109, 5101-5107.	1.2	95
171	Tuning the Density Profile of Dendritic Polyelectrolytes. <i>Macromolecules</i> , 1998, 31, 5892-5897.	2.2	231
172	Langevin dynamics simulations of early-stage polymer nucleation and crystallization. <i>Journal of Chemical Physics</i> , 1998, 109, 2536-2542.	1.2	194
173	Monte Carlo study of adsorption of a polyelectrolyte onto charged surfaces. <i>Journal of Chemical Physics</i> , 1998, 109, 1522-1527.	1.2	138
174	Configurations of liquid crystalline polymers in nematic solvents. <i>Journal of Chemical Physics</i> , 1998, 109, 11117-11128.	1.2	18
175	Brownian motion and polymer statistics on certain curved manifolds. <i>Physical Review E</i> , 1998, 57, 4411-4419.	0.8	28
176	Single Chain Entanglement: A Monte Carlo Simulation of Dilute Solution Capillary Electrophoresis. <i>Macromolecules</i> , 1998, 31, 5495-5501.	2.2	29
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