

Venkat Ganesan

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161
papers

6,216
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38
h-index

72
g-index

172
ext. papers

6,778
ext. citations

5.3
avg, IF

6.34
L-index

#	Paper	IF	Citations
161	Anisotropic self-assembly of spherical polymer-grafted nanoparticles. <i>Nature Materials</i> , 2009 , 8, 354-9	27	820
160	Field-Theoretic Computer Simulation Methods for Polymers and Complex Fluids. <i>Macromolecules</i> , 2002 , 35, 16-39	5.5	583
159	Theory and simulation studies of effective interactions, phase behavior and morphology in polymer nanocomposites. <i>Soft Matter</i> , 2014 , 10, 13-38	3.6	208
158	Self-assembly of rod-coil block copolymers. <i>Journal of Chemical Physics</i> , 2004 , 120, 5824-38	3.9	197
157	Origins of Linear Viscoelastic Behavior of Polymer-Nanoparticle Composites. <i>Macromolecules</i> , 2006 , 39, 844-856	5.5	148
156	Perspective: Outstanding theoretical questions in polymer-nanoparticle hybrids. <i>Journal of Chemical Physics</i> , 2017 , 147, 020901	3.9	118
155	Fluctuation Effects in Ternary AB + A + B Polymeric Emulsions. <i>Macromolecules</i> , 2003 , 36, 9237-9248	5.5	112
154	Mean-field models of structure and dispersion of polymer-nanoparticle mixtures. <i>Soft Matter</i> , 2010 , 6, 4010	3.6	107
153	Curvature effects upon interactions of polymer-grafted nanoparticles in chemically identical polymer matrices. <i>Journal of Chemical Physics</i> , 2010 , 133, 154904	3.9	102
152	Modeling the anisotropic self-assembly of spherical polymer-grafted nanoparticles. <i>Journal of Chemical Physics</i> , 2009 , 131, 221102	3.9	101
151	Universalization of the Phase Diagram for a Model Rod-Coil Diblock Copolymer. <i>Macromolecules</i> , 2008 , 41, 6809-6817	5.5	99
150	Origin of Dynamical Properties in PMMA- TiO_2 Nanocomposites. <i>Macromolecules</i> , 2007 , 40, 5424-5432	5.5	98
149	Regioregularity and Single Polythiophene Chain Conformation. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1400-1404	6.4	95
148	Strong Segregation Theory of Block Copolymer-Nanoparticle Composites. <i>Macromolecules</i> , 2006 , 39, 8499-8510	5.5	84
147	Mechanisms Underlying Ion Transport in Polymerized Ionic Liquids. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9511-9514	16.4	82
146	Universality in structure and elasticity of polymer-nanoparticle gels. <i>Physical Review Letters</i> , 2006 , 96, 177805	7.4	71
145	Noncontinuum effects in nanoparticle dynamics in polymers. <i>Journal of Chemical Physics</i> , 2006 , 124, 221102	3.9	69

144	Nanoparticles in solutions of adsorbing polymers: pair interactions, percolation, and phase behavior. <i>Langmuir</i> , 2006 , 22, 969-81	4	68
143	Computer Simulations of Ion Transport in Polymer Electrolyte Membranes. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2016 , 7, 349-71	8.9	68
142	Relation between glass transition temperatures in polymer nanocomposites and polymer thin films. <i>Physical Review Letters</i> , 2008 , 101, 075702	7.4	65
141	Highly Ordered Single Conjugated Polymer Chain Rod Morphologies. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 20896-20902	3.8	64
140	Correlations between Morphologies and Photovoltaic Properties of Rod-Coil Block Copolymers. <i>Macromolecules</i> , 2010 , 43, 543-552	5.5	63
139	Effect of Nanoparticles on Ion Transport in Polymer Electrolytes. <i>Macromolecules</i> , 2015 , 48, 2773-2786	5.5	62
138	Influence of Dielectric Constant on Ionic Transport in Polyether-Based Electrolytes. <i>ACS Macro Letters</i> , 2017 , 6, 1362-1367	6.6	58
137	Mechanisms Underlying Ion Transport in Lamellar Block Copolymer Membranes.. <i>ACS Macro Letters</i> , 2012 , 1, 513-518	6.6	58
136	Highly asymmetric lamellar nanopatterns via block copolymer blends capable of hydrogen bonding. <i>ACS Nano</i> , 2012 , 6, 7966-72	16.7	56
135	Polymer-bridged gels of nanoparticles in solutions of adsorbing polymers. <i>Journal of Chemical Physics</i> , 2006 , 125, 64903	3.9	55
134	Dispersion and Percolation Transitions of Nanorods in Polymer Solutions. <i>Macromolecules</i> , 2007 , 40, 344-354	5.5	53
133	A coarse-grained explicit solvent simulation of rheology of colloidal suspensions. <i>Journal of Chemical Physics</i> , 2005 , 122, 104906	3.9	53
132	Effect of Polymer Polarity on Ion Transport: A Competition between Ion Aggregation and Polymer Segmental Dynamics. <i>ACS Macro Letters</i> , 2018 , 7, 1149-1154	6.6	53
131	A Model for Self-Assembly in Side Chain Liquid Crystalline Block Copolymers. <i>Macromolecules</i> , 2008 , 41, 218-229	5.5	50
130	Translocation of a beta-hairpin-forming peptide through a cylindrical tunnel. <i>Journal of Chemical Physics</i> , 2004 , 121, 10268-77	3.9	48
129	Depletion and pair interactions of proteins in polymer solutions. <i>Journal of Chemical Physics</i> , 2005 , 122, 154901	3.9	47
128	Communication: Self-assembly of semiflexible-flexible block copolymers. <i>Journal of Chemical Physics</i> , 2012 , 136, 101101	3.9	43
127	Interfacial Phenomena in Polymer Blends: A Self-Consistent Brownian Dynamics Study. <i>Macromolecules</i> , 2004 , 37, 10180-10194	5.5	43

126	Blockiness and Sequence Polydispersity Effects on the Phase Behavior and Interfacial Properties of Gradient Copolymers. <i>Macromolecules</i> , 2012 , 45, 6281-6297	5.5	40
125	Highly-Cyclable Room-Temperature Phosphorene Polymer Electrolyte Composites for Li Metal Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1910749	15.6	38
124	Dynamical mean-field theory for inhomogeneous polymeric systems. <i>Journal of Chemical Physics</i> , 2003 , 118, 4345-4348	3.9	38
123	Phase Behavior of Binary Blends of Block Copolymers Having Hydrogen Bonding. <i>Macromolecules</i> , 2011 , 44, 4970-4976	5.5	37
122	Some issues in polymer nanocomposites: Theoretical and modeling opportunities for polymer physics. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 2666-2671	2.6	37
121	Molecular wall effects: are conditions at a boundary "boundary conditions"?. <i>Physical Review E</i> , 2000 , 61, 6879-97	2.4	37
120	Ion transport in polymeric ionic liquids: recent developments and open questions. <i>Molecular Systems Design and Engineering</i> , 2019 , 4, 280-293	4.6	36
119	Influence of molecular weight on ion-transport properties of polymeric ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 29134-29145	3.6	36
118	Modeling viscoelastic properties of triblock copolymers: A DPD simulation study. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 15-25	2.6	36
117	Multiscale Simulations of Lamellar PSPEO Block Copolymers Doped with LiPF ₆ Ions. <i>Macromolecules</i> , 2017 , 50, 4542-4554	5.5	35
116	Dewetting of PMMA on PSBrush Substrates. <i>Macromolecules</i> , 2009 , 42, 7919-7923	5.5	35
115	Atomistic simulations of structure of solvated sulfonated poly(ether ether ketone) membranes and their comparisons to nafion: II. Structure and transport properties of water, hydronium ions, and methanol. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 8367-73	3.4	34
114	Influence of Counterion Structure on Conductivity of Polymerized Ionic Liquids. <i>ACS Macro Letters</i> , 2019 , 8, 387-392	6.6	32
113	Mechanisms Underlying Ionic Mobilities in Nanocomposite Polymer Electrolytes.. <i>ACS Macro Letters</i> , 2013 , 2, 1001-1005	6.6	32
112	Structure and mechanisms underlying ion transport in ternary polymer electrolytes containing ionic liquids. <i>Journal of Chemical Physics</i> , 2017 , 146, 074902	3.9	31
111	Glass Transition Behavior of PS Films on Grafted PS Substrates. <i>Macromolecules</i> , 2010 , 43, 9892-9898	5.5	30
110	Experimental and Modeling Study of Domain Orientation in Confined Block Copolymer Thin Films. <i>Macromolecules</i> , 2016 , 49, 308-316	5.5	29
109	Domain Size Control in Self-Assembling Rod-Coil Block Copolymer and Homopolymer Blends. <i>Macromolecules</i> , 2007 , 40, 3320-3327	5.5	29

108	Ideal glass transitions in thin films: An energy landscape perspective. <i>Journal of Chemical Physics</i> , 2003 , 119, 1897-1900	3.9	29
107	Influence of molecular weight and degree of segregation on local segmental dynamics of ordered block copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 859-864	2.6	29
106	Rational Design of Thermally Stable, Bicontinuous Donor/Acceptor Morphologies with Conjugated Block Copolymer Additives. <i>ACS Macro Letters</i> , 2015 , 4, 867-871	6.6	28
105	Many-body interactions and coarse-grained simulations of structure of nanoparticle-polymer melt mixtures. <i>Journal of Chemical Physics</i> , 2010 , 133, 144904	3.9	28
104	Influence of block copolymer compatibilizers on the morphologies of semiflexible polymer/solvent blends. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 4425-41	3.4	27
103	Interplay between Depletion and Electrostatic Interactions in Polyelectrolyte-Nanoparticle Systems. <i>Macromolecules</i> , 2014 , 47, 6095-6112	5.5	27
102	Screening of hydrodynamic interactions in Brownian rod suspensions. <i>Journal of Chemical Physics</i> , 2008 , 128, 134901	3.9	27
101	Ion Transport in Polymerized Ionic Liquid-Ionic Liquid Blends. <i>Macromolecules</i> , 2018 , 51, 9471-9483	5.5	27
100	Dynamics of Two-Phase Fluid Interfaces in Random Porous Media. <i>Physical Review Letters</i> , 1998 , 81, 578-581	5.1	26
99	Effect of the Degree of Hydrogen Bonding on Asymmetric Lamellar Microdomains in Binary Block Copolymer Blends. <i>Macromolecules</i> , 2015 , 48, 6347-6352	5.5	25
98	Mechanical and Viscoelastic Properties of Polymer-Grafted Nanorod Composites from Molecular Dynamics Simulation. <i>Macromolecules</i> , 2018 , 51, 2641-2652	5.5	25
97	Influence of side chain linker length on ion-transport properties of polymeric ionic liquids. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 1718-1723	2.6	25
96	Ion Mobilities, Transference Numbers, and Inverse Haven Ratios of Polymeric Ionic Liquids. <i>ACS Macro Letters</i> , 2020 , 9, 84-89	6.6	25
95	Equilibrium characteristics of semiflexible polymer solutions near probe particles. <i>Physical Review E</i> , 2008 , 78, 051804	2.4	24
94	Computer simulations of gas diffusion in polystyrene-C60 fullerene nanocomposites using trajectory extending kinetic Monte Carlo method. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 95-103	3.4	23
93	Tail State-Assisted Charge Injection and Recombination at the Electron-Collecting Interface of P3HT:PCBM Bulk-Heterojunction Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2012 , 2, 1447-1455	21.8	23
92	Effect of the side-chain-distribution density on the single-conjugated-polymer-chain conformation. <i>ChemPhysChem</i> , 2013 , 14, 4143-8	3.2	23
91	Fluctuation effects on the order-disorder transition in polydisperse copolymer melts. <i>Journal of Chemical Physics</i> , 2013 , 139, 214905	3.9	23

90	A Comparison of the Dynamical Relaxations in a Model for Glass Transition in Polymer Nanocomposites and Polymer Thin Films. <i>Macromolecules</i> , 2010 , 43, 5851-5862	5.5	23
89	Multibody Interactions, Phase Behavior, and Clustering in Nanoparticle-Polyelectrolyte Mixtures. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 14536-50	3.4	22
88	Ordering poly(trimethylsilyl styrene-block-D,L-lactide) block copolymers in thin films by solvent annealing using a mixture of domain-selective solvents. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014 , 52, 36-45	2.6	22
87	Phase behavior of gradient copolymer solutions: a Monte Carlo simulation study. <i>Soft Matter</i> , 2012 , 8, 6471	3.6	22
86	Interactions between polymer-grafted particles and bare particles for biocompatibility applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 2566-2577	2.6	21
85	Influence of interfacial layers upon the barrier properties of polymer nanocomposites. <i>Journal of Chemical Physics</i> , 2009 , 130, 104901	3.9	21
84	Effect of Grafting Density of Random Copolymer Brushes on Perpendicular Alignment in PS-b-PMMA Thin Films. <i>Macromolecules</i> , 2017 , 50, 5858-5866	5.5	20
83	Ion transport mechanisms in lamellar phases of salt-doped PS-PEO block copolymer electrolytes. <i>Soft Matter</i> , 2017 , 13, 7793-7803	3.6	20
82	Achieving Bicontinuous Microemulsion Like Morphologies in Organic Photovoltaics. <i>ACS Macro Letters</i> , 2015 , 4, 266-270	6.6	20
81	Phase Behavior of Binary Blend Consisting of Asymmetric Polystyrene-block-poly(2-vinylpyridine) Copolymer and Asymmetric Deuterated Polystyrene-block-poly(4-hydroxystyrene) Copolymer. <i>Macromolecules</i> , 2015 , 48, 1262-1266	5.5	20
80	Constructing Sacrificial Multiple Networks To Toughen Elastomer. <i>Macromolecules</i> , 2019 , 52, 4154-4168	5.5	19
79	Influence of nanoparticle surface chemistry on ion transport in polymer nanocomposite electrolytes. <i>Solid State Ionics</i> , 2016 , 286, 57-65	3.3	19
78	Curvature Modification of Block Copolymer Microdomains Using Blends of Block Copolymers with Hydrogen Bonding Interactions. <i>Macromolecules</i> , 2012 , 45, 8729-8742	5.5	19
77	Coarse-Grained Simulations of Penetrant Transport in Polymer Nanocomposites. <i>Macromolecules</i> , 2011 , 44, 9839-9851	5.5	19
76	Dynamics of probe diffusion in rod solutions. <i>Physical Review Letters</i> , 2008 , 100, 128302	7.4	19
75	Coarse-graining in simulations of multicomponent polymer systems. <i>Journal of Chemical Physics</i> , 2014 , 141, 244904	3.9	18
74	Directed self assembly of block copolymers using chemical patterns with sidewall guiding lines, backfilled with random copolymer brushes. <i>Soft Matter</i> , 2015 , 11, 9107-14	3.6	17
73	Parallel bulk heterojunction photovoltaics based on all-conjugated block copolymer additives. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14804-14813	13	17

72	Surface energies and self-assembly of block copolymers on grafted surfaces. <i>Physical Review Letters</i> , 2011 , 107, 148304	7.4	17
71	Interfacial properties of statistical copolymer brushes in contact with homopolymer melts. <i>Journal of Chemical Physics</i> , 2011 , 134, 154903	3.9	17
70	Interactions and Aggregation of Charged Nanoparticles in Uncharged Polymer Solutions. <i>Langmuir</i> , 2015 , 31, 12328-38	4	16
69	A kinetic Monte Carlo model with improved charge injection model for the photocurrent characteristics of organic solar cells. <i>Journal of Applied Physics</i> , 2013 , 113, 234502	2.5	16
68	Block copolymer compatibilizers for ternary blend polymer bulk heterojunction solar cells: an opportunity for computation aided molecular design. <i>Molecular Systems Design and Engineering</i> , 2016 , 1, 353-369	4.6	16
67	Design of End-to-End Assembly of Side-Grafted Nanorods in a Homopolymer Matrix. <i>Macromolecules</i> , 2018 , 51, 4143-4157	5.5	16
66	Segmental dynamics in lamellar phases of tapered copolymers. <i>Soft Matter</i> , 2016 , 12, 7818-7823	3.6	15
65	Nonmonotonic Glass Transition Temperature of Polymer Films Supported on Polymer Brushes. <i>Macromolecules</i> , 2018 , 51, 4451-4461	5.5	15
64	Influence of hydrogen bonding effects on methanol and water diffusivities in acid-base polymer blend membranes of sulfonated poly(ether ether ketone) and base tethered polysulfone. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 5315-29	3.4	15
63	Effect of confinement on polymer-induced depletion interactions between nanoparticles. <i>Journal of Chemical Physics</i> , 2013 , 138, 234905	3.9	15
62	Self-Assembly of Diblock Copolymer on Substrates Modified by Random Copolymer Brushes. <i>Macromolecules</i> , 2011 , 44, 9867-9881	5.5	15
61	Model for the free-volume distributions of equilibrium fluids. <i>Journal of Chemical Physics</i> , 2006 , 124, 214502	3.9	15
60	Influence of protein charge patches on the structure of protein-polyelectrolyte complexes. <i>Soft Matter</i> , 2018 , 14, 9475-9488	3.6	15
59	Mechanisms of Ion Transport in Block Copolymeric Polymerized Ionic Liquids. <i>ACS Macro Letters</i> , 2019 , 8, 1096-1101	6.6	14
58	Influence of Host Polarity on Correlating Salt Concentration, Molecular Weight, and Molar Conductivity in Polymer Electrolytes. <i>ACS Macro Letters</i> , 2019 , 8, 888-892	6.6	14
57	Evaluating the role of additive pKa on the proton conductivities of blended sulfonated poly(ether ether ketone) membranes. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10063-7	3.4	14
56	Design of Polymer Blend Electrolytes through a Machine Learning Approach. <i>Macromolecules</i> , 2020 , 53, 9449-9459	5.5	14
55	Influence of nanoparticle-ion and nanoparticle-polymer interactions on ion transport and viscoelastic properties of polymer electrolytes. <i>Journal of Chemical Physics</i> , 2016 , 144, 154905	3.9	14

54	Noncontinuum effects on the mobility of nanoparticles in unentangled polymer solutions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 2145-2150	2.6	14
53	Energy Transfer Directly to Bilayer Interfaces to Improve Exciton Collection in Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19011-19021	3.8	13
52	Reversal of Salt Concentration Dependencies of Salt and Water Diffusivities in Polymer Electrolyte Membranes. <i>ACS Macro Letters</i> , 2018 , 7, 739-744	6.6	13
51	Conjugation of polybasic dendrimers with neutral grafts: effect on conformation and encapsulation of acidic drugs. <i>Soft Matter</i> , 2012 , 8, 11817	3.6	13
50	Mean field theory of charged dendrimer molecules. <i>Journal of Chemical Physics</i> , 2011 , 135, 204902	3.9	13
49	Engineering Li/Na selectivity in 12-Crown-4-functionalized polymer membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	13
48	Entanglements in Lamellar Phases of Diblock Copolymers. <i>Macromolecules</i> , 2015 , 48, 6321-6328	5.5	11
47	Efficacy of Different Block Copolymers in Facilitating Microemulsion Phases in Polymer Blend Systems. <i>Macromolecules</i> , 2013 , 46, 8334-8344	5.5	11
46	Structural signatures of mobility on intermediate time scales in a supercooled fluid. <i>Journal of Chemical Physics</i> , 2010 , 132, 184503	3.9	11
45	Pair interactions in polyelectrolyte-nanoparticle systems: Influence of dielectric inhomogeneities and the partial dissociation of polymers and nanoparticles. <i>Journal of Chemical Physics</i> , 2015 , 143, 164902	3.9	10
44	Interactions between grafted cationic dendrimers and anionic bilayer membranes. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 9806-20	3.4	10
43	Effect of anisotropic charge transport on device characteristics of polymer solar cells. <i>Applied Physics Letters</i> , 2009 , 95, 194101	3.4	10
42	Ion transport in backbone-embedded polymerized ionic liquids. <i>Journal of Chemical Physics</i> , 2019 , 151, 124902	3.9	10
41	Design of bicontinuous donor/acceptor morphologies for use as organic solar cell active layers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 884-895	2.6	10
40	Preliminary investigation of using a multi-component phase field model to evaluate microstructure of asphalt binders. <i>International Journal of Pavement Engineering</i> , 2017 , 18, 775-782	2.6	9
39	Structure and Transport Properties of Lithium-Doped Aprotic and Protic Ionic Liquid Electrolytes: Insights from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 5588-5600	3.4	9
38	Effect of Host Incompatibility and Polarity Contrast on Ion Transport in Ternary Polymer-Polymer-Salt Blend Electrolytes. <i>Macromolecules</i> , 2020 , 53, 875-884	5.5	9
37	Improving Energy Relay Dyes for Dye Sensitized Solar Cells by Increasing Donor Homotransfer. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 14098-14106	3.8	9

36	Complexation between weakly basic dendrimers and linear polyelectrolytes: effects of grafts, chain stiffness, and pOH. <i>Soft Matter</i> , 2013 , 9, 6955	3.6	9
35	Reactions in microemulsions: Effect of thermal fluctuations on reaction kinetics. <i>Journal of Chemical Physics</i> , 2000 , 113, 2901-2917	3.9	9
34	Mechanisms of Ion Transport in Lithium Salt-Doped Polymeric Ionic Liquid Electrolytes. <i>Macromolecules</i> , 2020 , 53, 6995-7008	5.5	9
33	Exploiting the Combined Influence of Morphology and Energy Cascades in Ternary Blend Organic Solar Cells Based on Block Copolymer Additives. <i>Macromolecules</i> , 2016 , 49, 5137-5144	5.5	9
32	Influence of morphology of colloidal nanoparticle gels on ion transport and rheology. <i>Journal of Chemical Physics</i> , 2019 , 150, 214903	3.9	8
31	Influence of Charge Regulation and Charge Heterogeneity on Complexation between Polyelectrolytes and Proteins. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 4421-4435	3.4	8
30	Connecting Solute Diffusion to Morphology in Triblock Copolymer Membranes. <i>Macromolecules</i> , 2020 , 53, 2336-2343	5.5	8
29	Influence of dielectric inhomogeneities on the structure of charged nanoparticles in neutral polymer solutions. <i>Soft Matter</i> , 2018 , 14, 3748-3759	3.6	8
28	Free volumes and the anomalous self-diffusivity of attractive colloids. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5166-9	3.4	8
27	Ion transport mechanisms in salt-doped polymerized zwitterionic electrolytes. <i>Journal of Polymer Science</i> , 2020 , 58, 578-588	2.4	7
26	Diffusivity of Mono- and Divalent Salts and Water in Polyelectrolyte Desalination Membranes. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 8098-8110	3.4	7
25	Entanglements in Inhomogeneous Polymeric Phases. <i>Macromolecules</i> , 2002 , 35, 9219-9231	5.5	7
24	Transport Mechanisms Underlying Ionic Conductivity in Nanoparticle-Based Single-Ion Electrolytes. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6970-6975	6.4	7
23	Prediction and Optimization of Ion Transport Characteristics in Nanoparticle-Based Electrolytes Using Convolutional Neural Networks. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 4838-4849	3.4	7
22	A Multiscale Simulation Study of Influence of Morphology on Ion Transport in Block Copolymeric Ionic Liquids. <i>Macromolecules</i> , 2021 , 54, 4997-5010	5.5	7
21	Impact of cross-linking of polymers on transport of salt and water in polyelectrolyte membranes: A mesoscopic simulation study. <i>Journal of Chemical Physics</i> , 2018 , 149, 224902	3.9	7
20	Structure of Aggregating Rod Suspensions Under Combined Shear and Electric Fields. <i>Macromolecules</i> , 2009 , 42, 7184-7193	5.5	6
19	Influence of pore morphology on the diffusion of water in triblock copolymer membranes. <i>Journal of Chemical Physics</i> , 2020 , 152, 014904	3.9	6

18	Aggregation behavior of rod-coil-rod triblock copolymers in a coil-selective solvent. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 330-7	3.4	5
17	Computer simulations of dendrimer-polyelectrolyte complexes. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 10297-310	3.4	5
16	Modes of Interaction in Binary Blends of Hydrophobic Polyethers and Imidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquids. <i>Macromolecules</i> , 2020 , 53, 6519-6528	5.5	5
15	Correlations in Block Copolymers under Shear. <i>Macromolecules</i> , 2002 , 35, 9847-9850	5.5	4
14	On the relationship between the local segmental dynamics and the tagged monomer dynamics in lamellar phases of diblock copolymers. <i>Journal of Chemical Physics</i> , 2017 , 147, 104901	3.9	3
13	Normal Modes and Dielectric Spectra of Diblock Copolymers in Lamellar Phases. <i>Macromolecules</i> , 2016 , 49, 2821-2831	5.5	3
12	Influence of topographically patterned angled guidelines on directed self-assembly of block copolymers. <i>Physical Review E</i> , 2017 , 96, 052501	2.4	3
11	Comment on Tail State-Assisted Charge Injection and Recombination at the Electron-Collecting Interface of P3HT:PCBM Bulk-Heterojunction Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 1537-1538	21.8	3
10	RELATIONSHIP BETWEEN SHEAR VISCOSITY AND STRUCTURE OF A MODEL COLLOIDAL SUSPENSION. <i>Chemical Engineering Communications</i> , 2009 , 197, 63-75	2.2	3
9	Long-time nonpreaveraged diffusivity and sedimentation velocity of clusters: Applications to micellar solutions. <i>Physical Review E</i> , 1999 , 59, 2126-2140	2.4	3
8	Origins of Lithium/Sodium Reverse Permeability Selectivity in 12-Crown-4-Functionalized Polymer Membranes.. <i>ACS Macro Letters</i> , 2021 , 10, 1167-1173	6.6	3
7	Instabilities in block copolymer films induced by compressible solvents. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 402-7	3.4	2
6	Direct Simulations of Phase Behavior of Mixtures of Oppositely Charged Proteins/Nanoparticles and Polyelectrolytes. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 10943-10951	3.4	2
5	Relationship between Ionic Conductivity, Glass Transition Temperature, and Dielectric Constant in Poly(vinyl ether) Lithium Electrolytes.. <i>ACS Macro Letters</i> , 2021 , 10, 1002-1007	6.6	2
4	Non-intuitive Trends in Flory-Huggins Interaction Parameters in Polyether-Based Polymers. <i>Macromolecules</i> , 2021 , 54, 6670-6677	5.5	1
3	Machine Learning-Assisted Design of Material Properties.. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2022 ,	8.9	1
2	Cation-Ligand Interactions Dictate Salt Partitioning and Diffusivity in Ligand-Functionalized Polymer Membranes. <i>Macromolecules</i> , 2022 , 55, 2260-2270	5.5	1
1	Influence of Charge Regulation and Charge Heterogeneity on Complexation between Weak Polyelectrolytes and Weak Proteins Near Isoelectric Point. <i>Macromolecular Theory and Simulations</i> , 2021 , 30, 2000054	1.5	

