

Venkat Ganesan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

161
papers

6,216
citations

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 | Machine Learning-Assisted Design of Material Properties.. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2022 , | 8.9 | 1 |
| 160 | Cation-Ligand Interactions Dictate Salt Partitioning and Diffusivity in Ligand-Functionalized Polymer Membranes. <i>Macromolecules</i> , 2022 , 55, 2260-2270 | 5.5 | 1 |
| 159 | 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 |
| 158 | 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 |
| 157 | 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 |
| 156 | Non-intuitive Trends in Flory-Huggins Interaction Parameters in Polyether-Based Polymers. <i>Macromolecules</i> , 2021 , 54, 6670-6677 | 5.5 | 1 |
| 155 | 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 | |
| 154 | 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 |
| 153 | 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 |
| 152 | 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 |
| 151 | Highly-Cyclable Room-Temperature Phosphorene Polymer Electrolyte Composites for Li Metal Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1910749 | 15.6 | 38 |
| 150 | Connecting Solute Diffusion to Morphology in Triblock Copolymer Membranes. <i>Macromolecules</i> , 2020 , 53, 2336-2343 | 5.5 | 8 |
| 149 | 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 |
| 148 | Ion transport mechanisms in salt-doped polymerized zwitterionic electrolytes. <i>Journal of Polymer Science</i> , 2020 , 58, 578-588 | 2.4 | 7 |
| 147 | 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 |
| 146 | Ion Mobilities, Transference Numbers, and Inverse Haven Ratios of Polymeric Ionic Liquids. <i>ACS Macro Letters</i> , 2020 , 9, 84-89 | 6.6 | 25 |
| 145 | Design of Polymer Blend Electrolytes through a Machine Learning Approach. <i>Macromolecules</i> , 2020 , 53, 9449-9459 | 5.5 | 14 |

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| 144 | 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 |
| 143 | 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 |
| 142 | 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 |
| 141 | Mechanisms of Ion Transport in Lithium Salt-Doped Polymeric Ionic Liquid Electrolytes. <i>Macromolecules</i> , 2020 , 53, 6995-7008 | 5.5 | 9 |
| 140 | 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 |
| 139 | Influence of morphology of colloidal nanoparticle gels on ion transport and rheology. <i>Journal of Chemical Physics</i> , 2019 , 150, 214903 | 3.9 | 8 |
| 138 | Constructing Sacrificial Multiple Networks To Toughen Elastomer. <i>Macromolecules</i> , 2019 , 52, 4154-4168 | 5.5 | 19 |
| 137 | Influence of Counterion Structure on Conductivity of Polymerized Ionic Liquids. <i>ACS Macro Letters</i> , 2019 , 8, 387-392 | 6.6 | 32 |
| 136 | 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 |
| 135 | Mechanisms of Ion Transport in Block Copolymeric Polymerized Ionic Liquids. <i>ACS Macro Letters</i> , 2019 , 8, 1096-1101 | 6.6 | 14 |
| 134 | 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 |
| 133 | Ion transport in backbone-embedded polymerized ionic liquids. <i>Journal of Chemical Physics</i> , 2019 , 151, 124902 | 3.9 | 10 |
| 132 | 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 |
| 131 | Mechanical and Viscoelastic Properties of Polymer-Grafted Nanorod Composites from Molecular Dynamics Simulation. <i>Macromolecules</i> , 2018 , 51, 2641-2652 | 5.5 | 25 |
| 130 | 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 |
| 129 | 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 |
| 128 | Nonmonotonic Glass Transition Temperature of Polymer Films Supported on Polymer Brushes. <i>Macromolecules</i> , 2018 , 51, 4451-4461 | 5.5 | 15 |
| 127 | Influence of protein charge patches on the structure of protein-polyelectrolyte complexes. <i>Soft Matter</i> , 2018 , 14, 9475-9488 | 3.6 | 15 |

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| 126 | Ion Transport in Polymerized Ionic Liquid/Ionic Liquid Blends. <i>Macromolecules</i> , 2018 , 51, 9471-9483 | 5.5 | 27 |
| 125 | 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 |
| 124 | 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 |
| 123 | Design of End-to-End Assembly of Side-Grafted Nanorods in a Homopolymer Matrix. <i>Macromolecules</i> , 2018 , 51, 4143-4157 | 5.5 | 16 |
| 122 | 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 |
| 121 | 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 |
| 120 | Multiscale Simulations of Lamellar PS/PEO Block Copolymers Doped with LiPF ₆ Ions. <i>Macromolecules</i> , 2017 , 50, 4542-4554 | 5.5 | 35 |
| 119 | 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 |
| 118 | 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 |
| 117 | Effect of Grafting Density of Random Copolymer Brushes on Perpendicular Alignment in PS- <i>b</i> -PMMA Thin Films. <i>Macromolecules</i> , 2017 , 50, 5858-5866 | 5.5 | 20 |
| 116 | Influence of Dielectric Constant on Ionic Transport in Polyether-Based Electrolytes. <i>ACS Macro Letters</i> , 2017 , 6, 1362-1367 | 6.6 | 58 |
| 115 | Influence of topographically patterned angled guidelines on directed self-assembly of block copolymers. <i>Physical Review E</i> , 2017 , 96, 052501 | 2.4 | 3 |
| 114 | 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 |
| 113 | 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 |
| 112 | Perspective: Outstanding theoretical questions in polymer-nanoparticle hybrids. <i>Journal of Chemical Physics</i> , 2017 , 147, 020901 | 3.9 | 118 |
| 111 | Mechanisms Underlying Ion Transport in Polymerized Ionic Liquids. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9511-9514 | 16.4 | 82 |
| 110 | Segmental dynamics in lamellar phases of tapered copolymers. <i>Soft Matter</i> , 2016 , 12, 7818-7823 | 3.6 | 15 |
| 109 | Parallel bulk heterojunction photovoltaics based on all-conjugated block copolymer additives. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14804-14813 | 13 | 17 |

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| 108 | Influence of nanoparticle surface chemistry on ion transport in polymer nanocomposite electrolytes. <i>Solid State Ionics</i> , 2016 , 286, 57-65 | 3.3 | 19 |
| 107 | Normal Modes and Dielectric Spectra of Diblock Copolymers in Lamellar Phases. <i>Macromolecules</i> , 2016 , 49, 2821-2831 | 5.5 | 3 |
| 106 | Experimental and Modeling Study of Domain Orientation in Confined Block Copolymer Thin Films. <i>Macromolecules</i> , 2016 , 49, 308-316 | 5.5 | 29 |
| 105 | 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 |
| 104 | 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 |
| 103 | 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 |
| 102 | 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 |
| 101 | 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 |
| 100 | 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 |
| 99 | 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 |
| 98 | 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 |
| 97 | 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 |
| 96 | Effect of Nanoparticles on Ion Transport in Polymer Electrolytes. <i>Macromolecules</i> , 2015 , 48, 2773-2786 | 5.5 | 62 |
| 95 | 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 |
| 94 | Multibody Interactions, Phase Behavior, and Clustering in Nanoparticle-Polyelectrolyte Mixtures. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 14536-50 | 3.4 | 22 |
| 93 | Entanglements in Lamellar Phases of Diblock Copolymers. <i>Macromolecules</i> , 2015 , 48, 6321-6328 | 5.5 | 11 |
| 92 | 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 |
| 91 | 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 |

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| 90 | 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, 164904 | 3.9 | 10 |
| 89 | Interactions and Aggregation of Charged Nanoparticles in Uncharged Polymer Solutions. <i>Langmuir</i> , 2015 , 31, 12328-38 | 4 | 16 |
| 88 | Achieving Bicontinuous Microemulsion Like Morphologies in Organic Photovoltaics. <i>ACS Macro Letters</i> , 2015 , 4, 266-270 | 6.6 | 20 |
| 87 | 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 |
| 86 | 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 |
| 85 | 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 |
| 84 | 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 |
| 83 | Interplay between Depletion and Electrostatic Interactions in Polyelectrolyte-Nanoparticle Systems. <i>Macromolecules</i> , 2014 , 47, 6095-6112 | 5.5 | 27 |
| 82 | Computer simulations of dendrimer-polyelectrolyte complexes. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 10297-310 | 3.4 | 5 |
| 81 | 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 |
| 80 | Coarse-graining in simulations of multicomponent polymer systems. <i>Journal of Chemical Physics</i> , 2014 , 141, 244904 | 3.9 | 18 |
| 79 | Mechanisms Underlying Ionic Mobilities in Nanocomposite Polymer Electrolytes.. <i>ACS Macro Letters</i> , 2013 , 2, 1001-1005 | 6.6 | 32 |
| 78 | Efficacy of Different Block Copolymers in Facilitating Microemulsion Phases in Polymer Blend Systems. <i>Macromolecules</i> , 2013 , 46, 8334-8344 | 5.5 | 11 |
| 77 | 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 |
| 76 | 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 |
| 75 | Effect of confinement on polymer-induced depletion interactions between nanoparticles. <i>Journal of Chemical Physics</i> , 2013 , 138, 234905 | 3.9 | 15 |
| 74 | Interactions between grafted cationic dendrimers and anionic bilayer membranes. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 9806-20 | 3.4 | 10 |
| 73 | Effect of the side-chain-distribution density on the single-conjugated-polymer-chain conformation. <i>ChemPhysChem</i> , 2013 , 14, 4143-8 | 3.2 | 23 |

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| 72 | 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 |
| 71 | Fluctuation effects on the order-disorder transition in polydisperse copolymer melts. <i>Journal of Chemical Physics</i> , 2013 , 139, 214905 | 3.9 | 23 |
| 70 | 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 |
| 69 | Phase behavior of gradient copolymer solutions: a Monte Carlo simulation study. <i>Soft Matter</i> , 2012 , 8, 6471 | 3.6 | 22 |
| 68 | Highly asymmetric lamellar nanopatterns via block copolymer blends capable of hydrogen bonding. <i>ACS Nano</i> , 2012 , 6, 7966-72 | 16.7 | 56 |
| 67 | 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 |
| 66 | 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 |
| 65 | 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 |
| 64 | 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 |
| 63 | Mechanisms Underlying Ion Transport in Lamellar Block Copolymer Membranes.. <i>ACS Macro Letters</i> , 2012 , 1, 513-518 | 6.6 | 58 |
| 62 | 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 |
| 61 | Communication: Self-assembly of semiflexible-flexible block copolymers. <i>Journal of Chemical Physics</i> , 2012 , 136, 101101 | 3.9 | 43 |
| 60 | Phase Behavior of Binary Blends of Block Copolymers Having Hydrogen Bonding. <i>Macromolecules</i> , 2011 , 44, 4970-4976 | 5.5 | 37 |
| 59 | Surface energies and self-assembly of block copolymers on grafted surfaces. <i>Physical Review Letters</i> , 2011 , 107, 148304 | 7.4 | 17 |
| 58 | Regioregularity and Single Polythiophene Chain Conformation. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1400-1404 | 6.4 | 95 |
| 57 | Coarse-Grained Simulations of Penetrant Transport in Polymer Nanocomposites. <i>Macromolecules</i> , 2011 , 44, 9839-9851 | 5.5 | 19 |
| 56 | Self-Assembly of Diblock Copolymer on Substrates Modified by Random Copolymer Brushes. <i>Macromolecules</i> , 2011 , 44, 9867-9881 | 5.5 | 15 |
| 55 | Mean field theory of charged dendrimer molecules. <i>Journal of Chemical Physics</i> , 2011 , 135, 204902 | 3.9 | 13 |

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| 54 | Interfacial properties of statistical copolymer brushes in contact with homopolymer melts. <i>Journal of Chemical Physics</i> , 2011 , 134, 154903 | 3.9 | 17 |
| 53 | Structural signatures of mobility on intermediate time scales in a supercooled fluid. <i>Journal of Chemical Physics</i> , 2010 , 132, 184503 | 3.9 | 11 |
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |
| 49 | Glass Transition Behavior of PS Films on Grafted PS Substrates. <i>Macromolecules</i> , 2010 , 43, 9892-9898 | 5.5 | 30 |
| 48 | Correlations between Morphologies and Photovoltaic Properties of Rod-Coil Block Copolymers. <i>Macromolecules</i> , 2010 , 43, 543-552 | 5.5 | 63 |
| 47 | 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 |
| 46 | Highly Ordered Single Conjugated Polymer Chain Rod Morphologies. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 20896-20902 | 3.8 | 64 |
| 45 | Mean-field models of structure and dispersion of polymer-nanoparticle mixtures. <i>Soft Matter</i> , 2010 , 6, 4010 | 3.6 | 107 |
| 44 | 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 |
| 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 | RELATIONSHIP BETWEEN SHEAR VISCOSITY AND STRUCTURE OF A MODEL COLLOIDAL SUSPENSION. <i>Chemical Engineering Communications</i> , 2009 , 197, 63-75 | 2.2 | 3 |
| 41 | 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 |
| 40 | Anisotropic self-assembly of spherical polymer-grafted nanoparticles. <i>Nature Materials</i> , 2009 , 8, 354-9 | 27 | 820 |
| 39 | Dewetting of PMMA on PS Brush Substrates. <i>Macromolecules</i> , 2009 , 42, 7919-7923 | 5.5 | 35 |
| 38 | 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 |
| 37 | Influence of interfacial layers upon the barrier properties of polymer nanocomposites. <i>Journal of Chemical Physics</i> , 2009 , 130, 104901 | 3.9 | 21 |

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|----|---|-----|-----|
| 36 | Modeling the anisotropic self-assembly of spherical polymer-grafted nanoparticles. <i>Journal of Chemical Physics</i> , 2009 , 131, 221102 | 3.9 | 101 |
| 35 | Structure of Aggregating Rod Suspensions Under Combined Shear and Electric Fields. <i>Macromolecules</i> , 2009 , 42, 7184-7193 | 5.5 | 6 |
| 34 | Relation between glass transition temperatures in polymer nanocomposites and polymer thin films. <i>Physical Review Letters</i> , 2008 , 101, 075702 | 7.4 | 65 |
| 33 | Screening of hydrodynamic interactions in Brownian rod suspensions. <i>Journal of Chemical Physics</i> , 2008 , 128, 134901 | 3.9 | 27 |
| 32 | A Model for Self-Assembly in Side Chain Liquid Crystalline Block Copolymers. <i>Macromolecules</i> , 2008 , 41, 218-229 | 5.5 | 50 |
| 31 | Universalization of the Phase Diagram for a Model Rod-coil Diblock Copolymer. <i>Macromolecules</i> , 2008 , 41, 6809-6817 | 5.5 | 99 |
| 30 | Dynamics of probe diffusion in rod solutions. <i>Physical Review Letters</i> , 2008 , 100, 128302 | 7.4 | 19 |
| 29 | Equilibrium characteristics of semiflexible polymer solutions near probe particles. <i>Physical Review E</i> , 2008 , 78, 051804 | 2.4 | 24 |
| 28 | 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 |
| 27 | Domain Size Control in Self-Assembling Rod-coil Block Copolymer and Homopolymer Blends. <i>Macromolecules</i> , 2007 , 40, 3320-3327 | 5.5 | 29 |
| 26 | Instabilities in block copolymer films induced by compressible solvents. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 402-7 | 3.4 | 2 |
| 25 | Origin of Dynamical Properties in PMMA-co-60 Nanocomposites. <i>Macromolecules</i> , 2007 , 40, 5424-5432 | 5.5 | 98 |
| 24 | Dispersion and Percolation Transitions of Nanorods in Polymer Solutions. <i>Macromolecules</i> , 2007 , 40, 344-354 | 5.5 | 53 |
| 23 | Polymer-bridged gels of nanoparticles in solutions of adsorbing polymers. <i>Journal of Chemical Physics</i> , 2006 , 125, 64903 | 3.9 | 55 |
| 22 | Universality in structure and elasticity of polymer-nanoparticle gels. <i>Physical Review Letters</i> , 2006 , 96, 177805 | 7.4 | 71 |
| 21 | Origins of Linear Viscoelastic Behavior of Polymer-nanoparticle Composites. <i>Macromolecules</i> , 2006 , 39, 844-856 | 5.5 | 148 |
| 20 | Model for the free-volume distributions of equilibrium fluids. <i>Journal of Chemical Physics</i> , 2006 , 124, 214502 | 3.9 | 15 |
| 19 | Noncontinuum effects in nanoparticle dynamics in polymers. <i>Journal of Chemical Physics</i> , 2006 , 124, 221102 | 3.9 | 69 |

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|----|---|-----|-----|
| 18 | Free volumes and the anomalous self-diffusivity of attractive colloids. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5166-9 | 3.4 | 8 |
| 17 | Strong Segregation Theory of Block Copolymer-Nanoparticle Composites. <i>Macromolecules</i> , 2006 , 39, 8499-8510 | 5.5 | 84 |
| 16 | Nanoparticles in solutions of adsorbing polymers: pair interactions, percolation, and phase behavior. <i>Langmuir</i> , 2006 , 22, 969-81 | 4 | 68 |
| 15 | A coarse-grained explicit solvent simulation of rheology of colloidal suspensions. <i>Journal of Chemical Physics</i> , 2005 , 122, 104906 | 3.9 | 53 |
| 14 | Depletion and pair interactions of proteins in polymer solutions. <i>Journal of Chemical Physics</i> , 2005 , 122, 154901 | 3.9 | 47 |
| 13 | Self-assembly of rod-coil block copolymers. <i>Journal of Chemical Physics</i> , 2004 , 120, 5824-38 | 3.9 | 197 |
| 12 | Translocation of a beta-hairpin-forming peptide through a cylindrical tunnel. <i>Journal of Chemical Physics</i> , 2004 , 121, 10268-77 | 3.9 | 48 |
| 11 | Interfacial Phenomena in Polymer Blends: A Self-Consistent Brownian Dynamics Study. <i>Macromolecules</i> , 2004 , 37, 10180-10194 | 5.5 | 43 |
| 10 | Fluctuation Effects in Ternary AB + A + B Polymeric Emulsions. <i>Macromolecules</i> , 2003 , 36, 9237-9248 | 5.5 | 112 |
| 9 | Dynamical mean-field theory for inhomogeneous polymeric systems. <i>Journal of Chemical Physics</i> , 2003 , 118, 4345-4348 | 3.9 | 38 |
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