## Ralph H Colby

List of Publications by Year in descending order

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255 papers

18,330 citations

71 h-index 15266

256 all docs

256 docs citations

256 times ranked

12671 citing authors

g-index

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Anisotropic self-assembly of spherical polymer-grafted nanoparticles. Nature Materials, 2009, 8, 354-359.   | 27.5 | 925       |
| 2  | Scaling Theory of Polyelectrolyte Solutions. Macromolecules, 1995, 28, 1859-1871.   | 4.8  | 834       |
| 3  | Dynamics of reversible networks. Macromolecules, 1991, 24, 4701-4707.   | 4.8  | 614       |
| 4  | Correlations of Solution Rheology with Electrospun Fiber Formation of Linear and Branched Polyesters. Macromolecules, 2004, 37, 1760-1767.  | 4.8  | 594       |
| 5  | Modeling electrode polarization in dielectric spectroscopy: Ion mobility and mobile ion concentration of single-ion polymer electrolytes. Journal of Chemical Physics, 2006, 124, 144903. | 3.0  | 403       |
| 6  | Structure and linear viscoelasticity of flexible polymer solutions: comparison of polyelectrolyte and neutral polymer solutions. Rheologica Acta, 2010, 49, 425-442.                      | 2.4  | 397       |
| 7  | The melt viscosity-molecular weight relationship for linear polymers. Macromolecules, 1987, 20, 2226-2237.  | 4.8  | 350       |
| 8  | Two-parameter scaling for polymers in $\hat{\Gamma}$ solvents. Macromolecules, 1990, 23, 2753-2757.   | 4.8  | 333       |
| 9  | Polyampholytes. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 3513-3538.   | 2.1  | 269       |
| 10 | Elastic modulus and equilibrium swelling of poly(dimethylsiloxane) networks. Macromolecules, 1992, 25, 5241-5251.   | 4.8  | 263       |
| 11 | Elastic Modulus and Equilibrium Swelling of Polyelectrolyte Gels. Macromolecules, 1996, 29, 398-406.  | 4.8  | 251       |
| 12 | Network Modulus and Superelasticity. Macromolecules, 1994, 27, 3191-3198.   | 4.8  | 218       |
| 13 | Breakdown of time-temperature superposition in miscible polymer blends. Polymer, 1989, 30, 1275-1278.   | 3.8  | 215       |
| 14 | Concentration fluctuation induced dynamic heterogeneities in polymer blends. Journal of Chemical Physics, 1996, 105, 3777-3788.   | 3.0  | 211       |
| 15 | "Gel-like―Mechanical Reinforcement in Polymer Nanocomposite Melts. Macromolecules, 2010, 43, 1003-1010.   | 4.8  | 209       |
| 16 | Selfâ€consistent theory of polydisperse entangled polymers: Linear viscoelasticity of binary blends.<br>Journal of Chemical Physics, 1988, 89, 5291-5306.                                 | 3.0  | 206       |
| 17 | Constraint release in polymer melts: tube reorganization versus tube dilation. Macromolecules, 1991, 24, 3587-3596.   | 4.8  | 203       |
| 18 | Rheology of Sodium Hyaluronate under Physiological Conditions. Biomacromolecules, 2001, 2, 65-69.   | 5.4  | 201       |

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| 19 | Ionomer dynamics and the sticky Rouse model. Journal of Rheology, 2013, 57, 1441-1462.   | 2.6              | 197                |
| 20 | Mechanical Reinforcement of Polymer Nanocomposites from Percolation of a Nanoparticle Network. ACS Macro Letters, 2015, 4, 398-402.  | 4.8              | 189                |
| 21 | Effects of concentration and thermodynamic interaction on the viscoelastic properties of polymer solutions. Macromolecules, 1991, 24, 3873-3882.                                 | 4.8              | 188                |
| 22 | Rheology of Sulfonated Polystyrene Solutions. Macromolecules, 1998, 31, 5746-5755.   | 4.8              | 186                |
| 23 | Dynamics of Semidilute Polyelectrolyte Solutions. Physical Review Letters, 1994, 73, 2776-2779.  | 7.8              | 184                |
| 24 | Dynamics of associative polymers. Soft Matter, 2018, 14, 2961-2977.  | 2.7              | 184                |
| 25 | Dielectric spectroscopy and conductivity of polyelectrolyte solutions. Journal of Physics Condensed Matter, 2004, 16, R1423-R1463.   | 1.8              | 181                |
| 26 | Molecular Mobility, Ion Mobility, and Mobile Ion Concentration in Poly(ethylene oxide)-Based Polyurethane Ionomers. Macromolecules, 2008, 41, 5723-5728.                         | 4.8              | 181                |
| 27 | Mechanical Reinforcement in Polymer Melts Filled with Polymer Grafted Nanoparticles.<br>Macromolecules, 2011, 44, 7473-7477.   | 4.8              | 180                |
| 28 | Network dynamics in nanofilled polymers. Nature Communications, 2016, 7, 11368.  | 12.8             | 180                |
| 29 | Dielectric and Viscoelastic Responses of Imidazolium-Based Ionomers with Different Counterions and Side Chain Lengths. Macromolecules, 2014, 47, 777-790.                        | 4.8              | 179                |
| 30 | Lamellae orientation in dynamically sheared diblock copolymer melts. Journal De Physique II, 1992, 2, 1941-1959.   | 0.9              | 174                |
| 31 | Molecular mobility and Li+ conduction in polyester copolymer ionomers based on poly(ethylene) Tj ETQq1 1 0.784   | ·314 rgBT<br>3.0 | /Overlock 1<br>173 |
| 32 | Diagnosing long-chain branching in polyethylenes. Journal of Molecular Structure, 1999, 485-486, 569-583.  | 3.6              | 170                |
| 33 | Conformations and Structures of Poly(oxyethylene) Melts from Molecular Dynamics Simulations and Small-Angle Neutron Scattering Experiments. Macromolecules, 1996, 29, 3462-3469. | 4.8              | 165                |
| 34 | Ionic Conduction and Dielectric Response of Poly(imidazolium acrylate) Ionomers. Macromolecules, 2012, 45, 3974-3985.  | 4.8              | 151                |
| 35 | Reinforcement of rubber by fractal aggregates. Journal De Physique II, 1993, 3, 367-383.   | 0.9              | 148                |
| 36 | Structure of sodium carboxymethyl cellulose aqueous solutions: A SANS and rheology study. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 492-501.                | 2.1              | 141                |

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|----|---|------------|------------|
| 37 | Kinetics of Triple Helix Formation in Semidilute Gelatin Solutions. Macromolecules, 2003, 36, 9999-10008.   | 4.8        | 137        |
| 38 | Dynamics in Miscible Blends of Polystyrene and Poly(vinyl methyl ether). Macromolecules, 1999, 32, 2553-2561.   | 4.8        | 132        |
| 39 | Glass transition temperature from the chemical structure of conjugated polymers. Nature Communications, 2020, 11, 893.  | 12.8       | 130        |
| 40 | Synthesis and Lithium Ion Conduction of Polysiloxane Single-Ion Conductors Containing Novel Weak-Binding Borates. Chemistry of Materials, 2012, 24, 2316-2323.                      | 6.7        | 129        |
| 41 | Segmental Dynamics of Polymer Melts with Spherical Nanoparticles. ACS Macro Letters, 2014, 3, 773-777.  | 4.8        | 128        |
| 42 | Polymerized Ionic Liquids with Enhanced Static Dielectric Constants. Macromolecules, 2013, 46, 1175-1186.   | 4.8        | 126        |
| 43 | Ion Conduction in Imidazolium Acrylate Ionic Liquids and their Polymers. Chemistry of Materials, 2010, 22, 5814-5822.   | 6.7        | 124        |
| 44 | Viscoelasticity of Reversible Gelation for Ionomers. Macromolecules, 2015, 48, 1221-1230.   | 4.8        | 123        |
| 45 | Synthesis and Characterization of Poly(Ethylene Glycol)-Based Single-Ion Conductors. Chemistry of Materials, 2006, 18, 4288-4295.   | 6.7        | 122        |
| 46 | Physical Gelation of Gelatin Studied with Rheo-Optics. Macromolecules, 2003, 36, 10009-10020.   | 4.8        | 114        |
| 47 | Synthesis and Characterization of Long Chain Branched Isotactic Polypropylene via Metallocene Catalyst and T-Reagent. Macromolecules, 2007, 40, 2712-2720.                          | 4.8        | 112        |
| 48 | Component relaxation dynamics in a miscible polymer blend: poly(ethylene oxide)/poly(methyl) Tj ETQq0 0 0 rgBT  | /9.yerlock | 187f 50 30 |
| 49 | Segmental dynamics of miscible polymer blends: Comparison of the predictions of a concentration fluctuation model to experiment. Journal of Chemical Physics, 1999, 111, 6121-6128. | 3.0        | 105        |
| 50 | Rheopexy of synovial fluid and protein aggregation. Journal of the Royal Society Interface, 2006, 3, 167-174.   | 3.4        | 105        |
| 51 | Thermally Driven Ionic Aggregation in Poly(ethylene oxide)-Based Sulfonate Ionomers. Journal of the American Chemical Society, 2011, 133, 10826-10831.                              | 13.7       | 102        |
| 52 | Role of Condensed Counterions in the Thermodynamics of Surfactant Micelle Formation with and without Oppositely Charged Polyelectrolytes. Langmuir, 1999, 15, 58-65.                | 3.5        | 98         |
| 53 | Rheology of Miscible Blends: SAN and PMMAâ€. Macromolecules, 1998, 31, 8988-8997.   | 4.8        | 96         |
| 54 | Imidazolium Polyesters: Structure–Property Relationships in Thermal Behavior, Ionic Conductivity, and Morphology. Advanced Functional Materials, 2011, 21, 708-717.                 | 14.9       | 94         |

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|----|--|-----|-----------|
| 55 | Viscosity and Scaling of Semiflexible Polyelectrolyte NaCMC in Aqueous Salt Solutions. Macromolecules, 2017, 50, 332-338.  | 4.8 | 94        |
| 56 | Counterion Dynamics in Polyurethane-Carboxylate Ionomers with Ionic Liquid Counterions. Chemistry of Materials, 2011, 23, 1862-1873.   | 6.7 | 92        |
| 57 | Dynamic scaling approach to glass formation. Physical Review E, 2000, 61, 1783-1792.   | 2.1 | 91        |
| 58 | What Length Scales Control the Dynamics of Miscible Polymer Blends?. Macromolecules, 2003, 36, 10087-10094.  | 4.8 | 89        |
| 59 | Electrical Conductivity of Polyelectrolyte Solutions in the Semidilute and Concentrated Regime:Â The Role of Counterion Condensation. Journal of Physical Chemistry B, 2002, 106, 6887-6893. | 2.6 | 87        |
| 60 | Counterion Dynamics in Polyesterâ^'Sulfonate Ionomers with Ionic Liquid Counterions. Macromolecules, 2011, 44, 3572-3582.  | 4.8 | 86        |
| 61 | Shear thinning of unentangled flexible polymer liquids. Rheologica Acta, 2007, 46, 569-575.  | 2.4 | 84        |
| 62 | Viscoelasticity of randomly branched polymers in the vulcanization class. Physical Review E, 1999, 60, 5657-5669.  | 2.1 | 79        |
| 63 | Glass transition and ionic conduction in plasticized and doped ionomers. Journal of Non-Crystalline Solids, 2005, 351, 2825-2830.  | 3.1 | 79        |
| 64 | Solution rheology of cellulose in 1-butyl-3-methyl imidazolium chloride. Journal of Rheology, 2011, 55, 485-494.   | 2.6 | 78        |
| 65 | Glass Transition Temperature of Conjugated Polymers by Oscillatory Shear Rheometry.<br>Macromolecules, 2017, 50, 5146-5154.  | 4.8 | 78        |
| 66 | Multi-Length Scale Morphology of Poly(ethylene oxide)-Based Sulfonate Ionomers with Alkali Cations at Room Temperature. Macromolecules, 2010, 43, 4223-4229.                                 | 4.8 | 76        |
| 67 | Molecular Volume Effects on the Dynamics of Polymerized Ionic Liquids and their Monomers. Electrochimica Acta, 2015, 175, 55-61.   | 5.2 | 76        |
| 68 | Dynamics of near-critical polymer gels. Physical Review E, 1993, 48, 3712-3716.  | 2.1 | 75        |
| 69 | Electrostatic and Hydrophobic Interactions in NaCMC Aqueous Solutions: Effect of Degree of Substitution. Macromolecules, 2018, 51, 3165-3175.  | 4.8 | 75        |
| 70 | Onset of Flow-Induced Crystallization Kinetics of Highly Isotactic Polypropylene. Macromolecules, 2015, 48, 3725-3738.   | 4.8 | 74        |
| 71 | Chain entanglement in polymer melts and solutions. Macromolecules, 1992, 25, 996-998.  | 4.8 | 73        |
| 72 | Charge density effects in salt-free polyelectrolyte solution rheology. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 2001-2013.   | 2.1 | 73        |

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| 73 | Both protein adsorption and aggregation contribute to shear yielding and viscosity increase in protein solutions. Soft Matter, 2014, 10, 122-131.   | 2.7 | 73        |
| 74 | Segmental Dynamics and Dielectric Constant of Polysiloxane Polar Copolymers as Plasticizers for Polymer Electrolytes. ACS Applied Materials & Samp; Interfaces, 2016, 8, 3215-3225.           | 8.0 | 73        |
| 75 | Viscoelasticity of randomly branched polymers in the critical percolation class. Physical Review E, 1995, 52, 6271-6280.  | 2.1 | 70        |
| 76 | Polyelectrolyte conductivity. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 2951-2960.   | 2.1 | 70        |
| 77 | Melt Rheology of Lower Critical Solution Temperature Polybutadiene/Polyisoprene Blends.<br>Macromolecules, 2000, 33, 9732-9739.   | 4.8 | 70        |
| 78 | Viscoelasticity of entangled random polystyrene ionomers. Journal of Rheology, 2016, 60, 1031-1040.   | 2.6 | 70        |
| 79 | Block copolymer dynamics. Current Opinion in Colloid and Interface Science, 1996, 1, 454-465.   | 7.4 | 68        |
| 80 | Temperature dependence of relaxation times and the length scale of cooperative motion for glass-forming liquids. Journal of Non-Crystalline Solids, 2002, 307-310, 225-231.                   | 3.1 | 68        |
| 81 | Influence of imidazoliumâ€based ionic liquids on the performance of ionic polymer conductor network composite actuators. Polymer International, 2010, 59, 321-328.                            | 3.1 | 67        |
| 82 | Molecular Mobility and Cation Conduction in Polyether–Ester–Sulfonate Copolymer Ionomers.<br>Macromolecules, 2012, 45, 3962-3973.   | 4.8 | 67        |
| 83 | Interactions among Hydrophobically Modified Polyelectrolytes and Surfactants of the Same Charge.<br>Langmuir, 2000, 16, 2609-2614.  | 3.5 | 66        |
| 84 | Linear Viscoelastic and Dielectric Properties of Phosphonium Siloxane Ionomers. ACS Macro Letters, 2013, 2, 970-974.  | 4.8 | 63        |
| 85 | Influence of Solvating Plasticizer on Ion Conduction of Polysiloxane Single-Ion Conductors.<br>Macromolecules, 2014, 47, 3145-3153.   | 4.8 | 63        |
| 86 | Linear viscoelasticity of side chain liquid crystal polymer. Liquid Crystals, 1993, 13, 233-245.  | 2.2 | 62        |
| 87 | Polyurethanes Containing an Imidazolium Diolâ€Based Ionicâ€Liquid Chain Extender for Incorporation of Ionicâ€Liquid Electrolytes. Macromolecular Chemistry and Physics, 2013, 214, 1027-1036. | 2.2 | 62        |
| 88 | Synthesis and Characterization of Maleic Anhydride Grafted Polypropylene with a Well-Defined Molecular Structure. Macromolecules, 2013, 46, 4313-4323.  | 4.8 | 62        |
| 89 | Linear Viscoelasticity and Swelling of Polyelectrolyte Complex Coacervates. Macromolecules, 2018, 51, 5547-5555.  | 4.8 | 62        |
| 90 | Micellar structure changes in aqueous mixtures of nonionic surfactants. Journal of Rheology, 2001, 45, 1223-1243.   | 2.6 | 60        |

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|-----|--|-----|-----------|
| 91  | Shear-Induced Layered Structure of Polymeric Micelles by SANS. Macromolecules, 2007, 40, 4016-4022.  | 4.8 | 59        |
| 92  | Segmental Dynamics of Head-to-Head Polypropylene and Polyisobutylene in Their Blend and Pure Components. Macromolecules, 2005, 38, 7721-7729.                          | 4.8 | 58        |
| 93  | The effect of physiologically relevant additives on the rheological properties of concentrated Pluronic copolymer gels. Polymer, 2008, 49, 3561-3567.                  | 3.8 | 58        |
| 94  | Official symbols and nomenclature of The Society of Rheology. Journal of Rheology, 2013, 57, 1047-1055.  | 2.6 | 57        |
| 95  | Lifetime of Flow-Induced Precursors in Isotactic Polypropylene. Macromolecules, 2015, 48, 7286-7299.   | 4.8 | 57        |
| 96  | Viscosity of Polyelectrolyte Solutions with Oppositely Charged Surfactantâ€. Journal of Physical Chemistry B, 2003, 107, 8166-8171.                                    | 2.6 | 55        |
| 97  | Smectic rheology. Rheologica Acta, 1997, 36, 498-504.  | 2.4 | 54        |
| 98  | 1,2-Bis [N-(N $\hat{a}$ $\in$ 2-alkylimidazolium)]ethane salts: a new class of organic ionic plastic crystals. Journal of Materials Chemistry, 2011, 21, 12280.        | 6.7 | 54        |
| 99  | Semidilute solution rheology of polyelectrolytes with no added salt. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 3429-3437.                         | 2.1 | 53        |
| 100 | Modeling the Segmental Relaxation Time Distribution of Miscible Polymer Blends:Â Polyisoprene/Poly(vinylethylene). Macromolecules, 2005, 38, 4919-4928.                | 4.8 | 52        |
| 101 | Practical Oil Spill Recovery by a Combination of Polyolefin Absorbent and Mechanical Skimmer. ACS Sustainable Chemistry and Engineering, 2018, 6, 12036-12045.         | 6.7 | 51        |
| 102 | Component Dynamics in Miscible Blends of 1,4-Polyisoprene and 1,2-Polybutadiene. Macromolecules, 1994, 27, 6861-6870.  | 4.8 | 50        |
| 103 | Computer Simulations of Local Concentration Variations in Miscible Polymer Blends.<br>Macromolecules, 2002, 35, 9211-9218.   | 4.8 | 49        |
| 104 | Linear Viscoelasticity and Dielectric Spectroscopy of Ionomer/Plasticizer Mixtures: A Transition from Ionomer to Polyelectrolyte. Macromolecules, 2015, 48, 8240-8252. | 4.8 | 49        |
| 105 | Viscoelastic properties of a model mainâ€chain liquid crystalline polyether. Journal of Rheology, 1994, 38, 1623-1638.   | 2.6 | 48        |
| 106 | Dynamics of Miscible Polymer Blends:  Predicting the Dielectric Response. Macromolecules, 2007, 40, 5767-5775.   | 4.8 | 48        |
| 107 | High Ion Content Siloxane Phosphonium Ionomers with Very Low <i>T</i> <sub>g</sub> .<br>Macromolecules, 2014, 47, 4428-4437.   | 4.8 | 48        |
| 108 | Hierarchical Sticker and Sticky Chain Dynamics in Self-Healing Butyl Rubber Ionomers.<br>Macromolecules, 2019, 52, 4169-4184.  | 4.8 | 48        |

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| 109 | Linear Viscoelasticity and Fourier Transform Infrared Spectroscopy of Polyether–Ester–Sulfonate Copolymer Ionomers. Macromolecules, 2014, 47, 3635-3644.                                | 4.8 | 47        |
| 110 | A survey of polyvinylphenol blend miscibility. Journal of Applied Polymer Science, 1994, 54, 991-1011.  | 2.6 | 46        |
| 111 | Nonlinear shear and uniaxial extensional rheology of polyether-ester-sulfonate copolymer ionomer melts. Journal of Rheology, 2017, 61, 1279-1289.                                       | 2.6 | 46        |
| 112 | lonic aggregate dissolution and conduction in a plasticized single-ion polymer conductor. Polymer, 2015, 59, 133-143.   | 3.8 | 44        |
| 113 | Miscibility in binary blends of poly(vinylphenol) and aromatic polyesters. Macromolecules, 1993, 26, 6299-6307.   | 4.8 | 43        |
| 114 | Polyelectrolyte Charge Effects on Solution Viscosity of Poly(acrylic acid). Macromolecules, 1999, 32, 2803-2805.  | 4.8 | 43        |
| 115 | Enhanced Elasticity and Soft Glassy Rheology of a Smectic in a Random Porous Environment. Physical Review Letters, 2005, 94, 107801.  | 7.8 | 43        |
| 116 | Flow-Induced Crystallization of PEEK: Isothermal Crystallization Kinetics and Lifetime of Flow-Induced Precursors during Isothermal Annealing. ACS Macro Letters, 2016, 5, 849-853.     | 4.8 | 43        |
| 117 | Sensitivity of Polymer Crystallization to Shear at Low and High Supercooling of the Melt.<br>Macromolecules, 2018, 51, 2785-2795.   | 4.8 | 43        |
| 118 | Miscible Polymer Blend Dynamics:Â Double Reptation Predictions of Linear Viscoelasticity in Model Blends of Polyisoprene and Poly(vinyl ethylene). Macromolecules, 2004, 37, 6994-7000. | 4.8 | 42        |
| 119 | Measuring Component Contributions to the Dynamic Modulus in Miscible Polymer Blends.<br>Macromolecules, 1994, 27, 6851-6860.  | 4.8 | 41        |
| 120 | Connecting the Mechanical and Conductive Properties of Conjugated Polymers. Advanced Electronic Materials, 2018, 4, 1700356.  | 5.1 | 41        |
| 121 | Solution Rheology of a Strongly Charged Polyelectrolyte in Good Solvent. Macromolecules, 2008, 41, 6505-6510.   | 4.8 | 40        |
| 122 | Determination of Polyelectrolyte Charge and Interaction with Water Using Dielectric Spectroscopy. Macromolecules, 2002, 35, 7031-7038.  | 4.8 | 39        |
| 123 | Collective motion in Poly(ethylene oxide)/poly(methylmethacrylate) blends. Physical Review E, 2005, 72, 031809.   | 2.1 | 38        |
| 124 | Rheology of Polyethylenes with Novel Branching Topology Synthesized by a Chain-Walking Catalyst. Macromolecules, 2005, 38, 10571-10579.   | 4.8 | 38        |
| 125 | Elastic Modulus and Equilibrium Swelling of Near-Critical Gels. Macromolecules, 1994, 27, 3184-3190.  | 4.8 | 37        |
| 126 | Relaxation Behavior of Polymer Blends after the Cessation of Shear. Macromolecules, 2000, 33, 2486-2496.  | 4.8 | 37        |

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| 127 | Rheology of Thermoreversible Hydrogels from Multiblock Associating Copolymers. Macromolecules, 2008, 41, 3646-3652.  | 4.8  | 37        |
| 128 | Ion States and Transport in Styrenesulfonate Methacrylic PEO <sub>9</sub> Random Copolymer Ionomers. Macromolecules, 2015, 48, 7273-7285.  | 4.8  | 37        |
| 129 | Structure and Dynamics in Aqueous Solutions of Amphiphilic Sodium Maleate-Containing Alternating Copolymers. Macromolecules, 2004, 37, 8457-8465.                                  | 4.8  | 36        |
| 130 | Wellâ€Defined Imidazolium ABA Triblock Copolymers as Ionicâ€Liquidâ€Containing Electroactive Membranes.<br>Macromolecular Chemistry and Physics, 2014, 215, 1319-1331.             | 2.2  | 36        |
| 131 | Scaling properties of branched polyesters. 2. Static scaling above the gel point. Macromolecules, 1992, 25, 7180-7187.   | 4.8  | 35        |
| 132 | Dynamic Heterogeneity in Miscible Polymer Blends with Stiffness Disparity:Â Computer Simulations Using the Bond Fluctuation Model. Macromolecules, 2003, 36, 8567-8573.            | 4.8  | 35        |
| 133 | Dynamics of Miscible Polymer Blends:  Role of Concentration Fluctuations on Characteristic Segmental Relaxation Times. Macromolecules, 2007, 40, 5759-5766.                        | 4.8  | 35        |
| 134 | Reversible Gelation Model Predictions of the Linear Viscoelasticity of Oligomeric Sulfonated Polystyrene lonomer Blends. Macromolecules, 2016, 49, 3936-3947.                      | 4.8  | 35        |
| 135 | Room Temperature to $150 < b > \hat{A}^o < /b > C$ Lithium Metal Batteries Enabled by a Rigid Molecular Ionic Composite Electrolyte. Advanced Energy Materials, 2021, 11, 2003559. | 19.5 | 35        |
| 136 | Brittle fracture in associative polymers: the case of ionomer melts. Soft Matter, 2016, 12, 7606-7612.   | 2.7  | 34        |
| 137 | Amphiphilic maleic acid-containing alternating copolymers?1. Dissociation behavior and compositions. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 3571-3583.     | 2.1  | 33        |
| 138 | Critical Incorporation Concentration of Surfactants Added to Micellar Solutions of Hydrophobically Modified Polyelectrolytes of the Same Charge. Langmuir, 2001, 17, 2937-2941.    | 3.5  | 32        |
| 139 | Dispersing Grafted Nanoparticle Assemblies into Polymer Melts through Flow Fields. ACS Macro Letters, 2013, 2, 1051-1055.  | 4.8  | 32        |
| 140 | Explaining the Non-Newtonian Character of Aggregating Monoclonal Antibody Solutions Using Small-Angle Neutron Scattering. Biophysical Journal, 2014, 107, 469-476.                 | 0.5  | 32        |
| 141 | The Role of Solvating 12-Crown-4 Plasticizer on Dielectric Constant and Ion Conduction of Poly(ethylene oxide) Single-Ion Conductors. Macromolecules, 2017, 50, 5582-5591.         | 4.8  | 32        |
| 142 | Effect of the Hydrophilic Size on the Structural Phases of Aqueous Nonionic Gemini Surfactant Solutions. Langmuir, 2004, 20, 9061-9068.  | 3.5  | 31        |
| 143 | Side chain length affects backbone dynamics in poly(3â€alkylthiophene)s. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 1193-1202.                                 | 2.1  | 31        |
| 144 | Transition in Crystal Morphology for Flow-Induced Crystallization of Isotactic Polypropylene. Macromolecules, 2016, 49, 5561-5575.   | 4.8  | 30        |

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| 145 | Solvent-non-solvent rapid-injection for preparing nanostructured materials from micelles to hydrogels. Nature Communications, 2019, 10, 3855.  | 12.8 | 30        |
| 146 | Exploring the role of ion solvation in ethylene oxide based single-ion conducting polyanions and polycations. Soft Matter, 2013, 9, 10275.   | 2.7  | 29        |
| 147 | Simultaneous Reduction and Polymerization of Graphene Oxide/Styrene Mixtures To Create Polymer Nanocomposites with Tunable Dielectric Constants. ACS Applied Nano Materials, 2020, 3, 962-968.       | 5.0  | 28        |
| 148 | Synthesis, Morphology, and Ion Conduction of Polyphosphazene Ammonium Iodide Ionomers. Macromolecules, 2015, 48, 111-118.  | 4.8  | 27        |
| 149 | Imidazole-containing triblock copolymers with a synergy of ether and imidazolium sites. Journal of Materials Chemistry C, 2015, 3, 3891-3901.  | 5.5  | 27        |
| 150 | Isothermal Flow-Induced Crystallization of Polyamide 66 Melts. Macromolecules, 2018, 51, 4269-4279.  | 4.8  | 27        |
| 151 | Two Distinct Morphologies for Semicrystalline Isotactic Polypropylene Crystallized after Shear Flow.<br>Macromolecules, 2018, 51, 4750-4761.   | 4.8  | 27        |
| 152 | Diffusion and melt viscosity of a main-chain liquid crystalline polyether. Macromolecules, 1993, 26, 3764-3771.  | 4.8  | 26        |
| 153 | Dynamic light scattering and rheology studies of aqueous solutions of amphiphilic sodium maleate containing copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 774-785.      | 2.1  | 26        |
| 154 | Polloidal Chains from Self-Assembly of Flattened Particles. Langmuir, 2013, 29, 10340-10345.   | 3.5  | 26        |
| 155 | Mechanical Properties of Tandem-Repeat Proteins Are Governed by Network Defects. ACS Biomaterials Science and Engineering, 2018, 4, 884-891.   | 5.2  | 26        |
| 156 | Nuclear magnetic resonance investigation of dynamics in poly(ethylene oxide)-based lithium polyether-ester-sulfonate ionomers. Journal of Chemical Physics, 2012, 136, 014510.                       | 3.0  | 25        |
| 157 | Morphological Evolution of Ionomer/Plasticizer Mixtures during a Transition from Ionomer to Polyelectrolyte. Macromolecules, 2017, 50, 963-971.  | 4.8  | 25        |
| 158 | Hydrodynamics of polymer solutions via two-parameter scaling. Journal De Physique II, 1994, 4, 1299-1310.  | 0.9  | 25        |
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