# Frank S Bates

List of Publications by Year
in descending order

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|---|---|---|---|
| 460 papers | 50,497 citations | 1981 104 h-index | 2142 209 g-index |
| 464 all docs | 464 docs citations | 464 times ranked | 24628 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Block Copolymer Thermodynamics: Theory and Experiment. Annual Review of Physical Chemistry, 1990, 41, 525-557. | 4.8 | 3,581 |
| 2 | Block Copolymersâ€"Designer Soft Materials. Physics Today, 1999, 52, 32-38. | 0.3 | 2,749 |
| 3 | Polymersomes: Tough Vesicles Made from Diblock Copolymers. Science, 1999, 284, 1143-1146. | 6.0 | 2,369 |
| 4 | Unifying Weak- and Strong-Segregation Block Copolymer Theories. Macromolecules, 1996, 29, 1091-1098. | 2.2 | 1,636 |
| 5 | On the Origins of Morphological Complexity in Block Copolymer Surfactants. Science, 2003, 300, 460-464. | 6.0 | 1,162 |
| 6 | Polyisoprene-Polystyrene Diblock Copolymer Phase Diagram near the Order-Disorder Transition. Macromolecules, 1995, 28, 8796-8806. | 2.2 | 965 |
| 7 | Multiblock Polymers: Panacea or Pandoraâ€™s Box?. Science, 2012, 336, 434-440. | 6.0 | 930 |
| 8 | Giant Wormlike Rubber Micelles. Science, 1999, 283, 960-963. | 6.0 | 665 |
| 9 | Self-Assembly of Janus Dendrimers into Uniform Dendrimersomes and Other Complex Architectures. Science, 2010, 328, 1009-1014. | 6.0 | 654 |
| 10 | 50th Anniversary Perspective: Block Polymersâ€"Pure Potential. Macromolecules, 2017, 50, 3-22. | 2.2 | 593 |
| 11 | Biodegradable polymersomes loaded with both paclitaxel and doxorubicin permeate and shrink tumors, inducing apoptosis in proportion to accumulated drug. Journal of Controlled Release, 2006, 116, 150-158. | 4.8 | 507 |
| 12 | Molecular Weight Dependence of Polymersome Membrane Structure, Elasticity, and Stability. Macromolecules, 2002, 35, 8203-8208. | 2.2 | 505 |
| 13 | Polymer vesicles in vivo: correlations with PEG molecular weight. Journal of Controlled Release, 2003, 90, 323-334. | 4.8 | 488 |
| 14 | Melt blown nanofibers: Fiber diameter distributions and onset of fiber breakup. Polymer, 2007, 48, 3306-3316. | 1.8 | 419 |
| 15 | Fluctuation effects in a symmetric diblock copolymer near the orderâ€"disorder transition. Journal of Chemical Physics, 1990, 92, 6255-6270. | 1.2 | 417 |
| 16 | Complex Phase Behavior of Polyisoprene-Polystyrene Diblock Copolymers Near the Order-Disorder Transition. Macromolecules, 1994, 27, 6922-6935. | 2.2 | 412 |
| 17 | Surface-directed spinodal decomposition. Physical Review Letters, 1991, 66, 1326-1329. | 2.9 | 408 |
| 18 | Nanostructured Thermosets from Self-Assembled Amphiphilic Block Copolymer/Epoxy Resin Mixtures. Journal of the American Chemical Society, 1998, 120, 8963-8970. | 6.6 | 408 |

| # | Article | IF | Citations |
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| 19 | Fluctuations, conformational asymmetry and block copolymer phase behaviour. Faraday Discussions, 1994, 98, 7-18. | 1.6 | 399 |
| 20 | Self-Assembly and Polymerization of Epoxy Resin-Amphiphilic Block Copolymer Nanocomposites. Journal of the American Chemical Society, 1997, 119, 2749-2750. | 6.6 | 393 |
| 21 | Combining polyethylene and polypropylene: Enhanced performance with PE/ i PP multiblock polymers. Science, 2017, 355, 814-816. | 6.0 | 393 |
| 22 | Preparation, stability, and in vitro performance of vesicles made with diblock copolymers. Biotechnology and Bioengineering, 2001, 73, 135-145. | 1.7 | 384 |
| 23 | Consequences of Nonergodicity in Aqueous Binary PEOâ^'PB Micellar Dispersions. Macromolecules, 2004, 37, 1511-1523. | 2.2 | 379 |
| 24 | Discovery of a Frank-Kasper Ïƒ Phase in Sphere-Forming Block Copolymer Melts. Science, 2010, 330, 349-353. | 6.0 | 379 |
| 25 | Spinodal decomposition of a symmetric critical mixture of deuterated and protonated polymer. Journal of Chemical Physics, 1989, 91, 3258-3274. | 1.2 | 375 |
| 26 | High Ï‡â€“Low N Block Polymers: How Far Can We Go?. ACS Macro Letters, 2015, 4, 1044-1050. | 2.3 | 370 |
| 27 | Near-infrared-emissive polymersomes: Self-assembled soft matter for in vivo optical imaging. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2922-2927. | 3.3 | 355 |
| 28 | Cryogenic Transmission Electron Microscopy (Cryo-TEM) of Micelles and Vesicles Formed in Water by Poly(ethylene oxide)-Based Block Copolymers. Journal of Physical Chemistry B, 2002, 106, 3354-3364. | 1.2 | 320 |
| 29 | Synthesis and Characterization of Model Polyalkaneâ^'Poly(ethylene oxide) Block Copolymers. Macromolecules, 1996, 29, 6994-7002. | 2.2 | 306 |
| 30 | Shrinkage of a Rapidly Growing Tumor by Drug-Loaded Polymersomes:Â pH-Triggered Release through Copolymer Degradation. Molecular Pharmaceutics, 2006, 3, 340-350. | 2.3 | 305 |
| 31 | Polymeric Bicontinuous Microemulsions. Physical Review Letters, 1997, 79, 849-852. | 2.9 | 300 |
| 32 | Molecular and Mesoscopic Structures of Transparent Block Copolymerâ^'Silica Monoliths. Macromolecules, 1999, 32, 4332-4342. | 2.2 | 279 |
| 33 | Ordered Network Mesostructures in Block Polymer Materials. Macromolecules, 2009, 42, 7221-7250. | 2.2 | 277 |
| 34 | Hexagonal mesophases between lamellae and cylinders in a diblock copolymer melt. Macromolecules, 1993, 26, 5959-5970. | 2.2 | 263 |
| 35 | Nanostructure Toughened Epoxy Resins. Macromolecules, 2003, 36, 9267-9270. | 2.2 | 263 |
| 36 | Stability of the Perforated Layer (PL) Phase in Diblock Copolymer Melts. Macromolecules, 1997, 30, 3788-3795. | 2.2 | 259 |

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| 37 | Bioresorbable Vesicles Formed through Spontaneous Self-Assembly of Amphiphilic Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overloc | 2.2 | 257 |
| 38 | Epitaxial Relationship for Hexagonal-to-Cubic Phase Transition in a Book Copolymer Mixture. Physical Review Letters, 1994, 73, 86-89. | 2.9 | 254 |
| 39 | Reactive Block Copolymers for Modification of Thermosetting Epoxy. Macromolecules, 2000, 33, 9522-9534. | 2.2 | 250 |
| 40 | Cross-linked Polymersome Membranes:â€‰ Vesicles with Broadly Adjustable Properties. Journal of Physical Chemistry B, 2002, 106, 2848-2854. | 1.2 | 249 |
| 41 | Layer Structure Preservation during Swelling, Pillaring, and Exfoliation of a Zeolite Precursor. Journal of the American Chemical Society, 2008, 130, 1507-1516. | 6.6 | 240 |
| 42 | Entropic Corrections to the Flory-Huggins Theory of Polymer Blends: Architectural and Conformational Effects. Macromolecules, 1994, 27, 2503-2511. | 2.2 | 233 |
| 43 | Crystallization in Oriented Semicrystalline Diblock Copolymers. Macromolecules, 1996, 29, 8835-8843. | 2.2 | 231 |
| 44 | Thermal processing of diblock copolymer melts mimics metallurgy. Science, 2017, 356, 520-523. | 6.0 | 227 |
| 45 | A Noncubic Triply Periodic Network Morphology in Poly(isoprene-b-styrene-b-ethylene oxide) Triblock Copolymers. Macromolecules, 2002, 35, 7007-7017. | 2.2 | 216 |
| 46 | Critical Behavior of Binary Liquid Mixtures of Deuterated and Protonated Polymers. Physical Review Letters, 1985, 55, 2425-2428. | 2.9 | 214 |
| 47 | Mechanical properties of block copolymer vesicle and micelle modified epoxies. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 2444-2456. | 2.4 | 213 |
| 48 | Sphericity and symmetry breaking in the formation of Frankâ€“Kasper phases from one component materials. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17723-17731. | 3.3 | 210 |
| 49 | Ordered Network Phases in Linear Poly(isoprene-b-styrene-b-ethylene oxide) Triblock Copolymers. Macromolecules, 2004, 37, 8325-8341. | 2.2 | 209 |
| 50 | Toughening of Epoxies with Block Copolymer Micelles of Wormlike Morphology. Macromolecules, 2010, 43, 7238-7243. | 2.2 | 206 |
| 51 | Shear-induced isotropic-to-lamellar transition. Physical Review Letters, 1993, 70, 1449-1452. | 2.9 | 204 |
| 52 | Polymer vesicles in various media. Current Opinion in Colloid and Interface Science, 2000, 5, 125-131. | 3.4 | 204 |
| 53 | Gaussian- to stretched-coil transition in block copolymer melts. Physical Review Letters, 1990, 65, 1112-1115. | 2.9 | 203 |
| 54 | Sub-5 nm Domains in Ordered Poly(cyclohexylethylene)-block-poly(methyl methacrylate) Block Polymers for Lithography. Macromolecules, 2014, 47, 1411-1418. | 2.2 | 197 |

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| 55 | Coreâ^'Shell Gyroid Morphology in a Poly(isoprene-block-styrene-block-dimethylsiloxane) Triblock Copolymer. Journal of the American Chemical Society, 1999, 121, 8457-8465. | 6.6 | 194 |
| 56 | Micellar structure and mechanical properties of block copolymer-modified epoxies. Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 2996-3010. | 2.4 | 194 |
| 57 | Order and Disorder in Symmetric Diblock Copolymer Melts. Macromolecules, 1995, 28, 1429-1443. | 2.2 | 193 |
| 58 | Phase Behavior of Pure Diblocks and Binary Diblock Blends of Poly(ethylene)â^'Poly(ethylethylene). Macromolecules, 1996, 29, 1204-1215. | 2.2 | 193 |
| 59 | Block copolymers near the microphase separation transition. 2. Linear dynamic mechanical properties. Macromolecules, 1984, 17, 2607-2613. | 2.2 | 187 |
| 60 | Nanocavitation in Self-Assembled Amphiphilic Block Copolymer-Modified Epoxy. Macromolecules, 2008, 41, 7616-7624. | 2.2 | 186 |
| 61 | Phase Behavior of Polystyreneâ^'Poly(2-vinylpyridine) Diblock Copolymers. Macromolecules, 1996, 29, 2857-2867. | 2.2 | 182 |
| 62 | Structure and properties of PBO-PEO diblock copolymer modified epoxy. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1950-1965. | 2.4 | 180 |
| 63 | Role of Block Copolymers on Suppression of Droplet Coalescence. Macromolecules, 2002, 35, 7845-7855. | 2.2 | 177 |
| 64 | Mechanism of Molecular Exchange in Diblock Copolymer Micelles: Hypersensitivity to Core Chain Length. Physical Review Letters, 2010, 104, 047802. | 2.9 | 177 |
| 65 | Lamellae orientation in dynamically sheared diblock copolymer melts. Journal De Physique II, 1992, 2, 1941-1959. | 0.9 | 174 |
| 66 | Epitaxial growth and shearing of the body centered cubic phase in diblock copolymer melts. Journal of Rheology, 1994, 38, 999-1027. | 1.3 | 174 |
| 67 | Molecular Exchange in PEOâ^'PB Micelles in Water. Macromolecules, 2003, 36, 953-955. | 2.2 | 174 |
| 68 | Epoxy Toughening Using Low Molecular Weight Poly(hexylene oxide)â^'Poly(ethylene oxide) Diblock Copolymers. Macromolecules, 2006, 39, 7187-7189. | 2.2 | 168 |
| 69 | Can a single function for Ï‡ account for block copolymer and homopolymer blend phase behavior?. Journal of Chemical Physics, 1998, 108, 2989-3000. | 1.2 | 166 |
| 70 | Dodecagonal quasicrystalline order in a diblock copolymer melt. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5167-5172. | 3.3 | 164 |
| 71 | SCFT Study of Nonfrustrated ABC Triblock Copolymer Melts. Macromolecules, 2007, 40, 4654-4668. | 2.2 | 163 |
| 72 | Model Bicontinuous Microemulsions in Ternary Homopolymer/Block Copolymer Blends. Journal of Physical Chemistry B, 1999, 103, 4814-4824. | 1.2 | 159 |

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| 73 | Block Copolymer Toughened Epoxy: Role of Cross-Link Density. Macromolecules, 2009, 42, 2333-2335. | 2.2 | 159 |
| 74 | Scalable production of mechanically tunable block polymers from sugar. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8357-8362. | 3.3 | 159 |
| 75 | Laboratoryâ€scale setup for anionic polymerization under inert atmosphere. Review of Scientific Instruments, 1995, 66, 1090-1095. | 0.6 | 158 |
| 76 | Light-scattering experiments on phase-separation dynamics in binary fluid mixtures. Physical Review A, 1992, 45, 885-897. | 1.0 | 157 |
| 77 | Morphological Behavior Bridging the Symmetric AB and ABC States in the Poly(styrene-b-isoprene-b-ethylene oxide) Triblock Copolymer System. Macromolecules, 2001, 34, 6994-7008. | 2.2 | 155 |
| 78 | Isotope-Induced Quantum-Phase Transitions in the Liquid State. Physical Review Letters, 1986, 57, 1429-1432. | 2.9 | 153 |
| 79 | Phase Behavior and Block Sequence Effects in Lithium Perchlorate-Doped Poly(isoprene-b-styrene-b-ethylene oxide) and Poly(styrene-b-isoprene-b-ethylene oxide) Triblock Copolymers. Macromolecules, 2003, 36, 2873-2881. | 2.2 | 153 |
| 80 | Broadly Accessible Self-Consistent Field Theory for Block Polymer Materials Discovery. Macromolecules, 2016, 49, 4675-4690. | 2.2 | 150 |
| 81 | Confined Block Copolymer Thin Films. Macromolecules, 1995, 28, 2897-2904. | 2.2 | 146 |
| 82 | Fluctuation-Induced First-Order Transition of an Isotropic System to a Periodic State. Physical Review Letters, 1988, 61, 2229-2232. | 2.9 | 144 |
| 83 | Chemically Recyclable Biobased Polyurethanes. ACS Macro Letters, 2016, 5, 515-518. | 2.3 | 143 |
| 84 | Bottlebrush Block Polymers: Quantitative Theory and Experiments. ACS Nano, 2015, 9, 12233-12245. | 7.3 | 141 |
| 85 | Network Phases in ABC Triblock Copolymers. Macromolecules, 2004, 37, 7085-7088. | 2.2 | 138 |
| 86 | Static and dynamic crossover in a critical polymer mixture. Physical Review Letters, 1990, 65, 1893-1896. | 2.9 | 137 |
| 87 | Conformational Asymmetry and Polymer-Polymer Thermodynamics. Macromolecules, 1994, 27, 1065-1067. | 2.2 | 137 |
| 88 | Linear Rheology of Polyolefin-Based Bottlebrush Polymers. Macromolecules, 2015, 48, 4680-4691. | 2.2 | 137 |
| 89 | Correlation of binary polyolefin phase behavior with statistical segment length asymmetry. Macromolecules, 1992, 25, 5547-5550. | 2.2 | 133 |
| 90 | Synthesis of ABA Triblock Copolymers by a Tandem ROMPâ"RAFT Strategy. Macromolecules, 2005, 38, 7890-7894. | 2.2 | 130 |

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| 91 | Tat-Functionalized Near-Infrared Emissive Polymersomes for Dendritic Cell Labeling. Bioconjugate Chemistry, 2007, 18, 31-40. | 1.8 | 128 |
| 92 | Interference of spinodal waves in thin polymer films. Macromolecules, 1993, 26, 5566-5571. | 2.2 | 125 |
| 93 | Interplay of Phase Separation and Thermoreversible Gelation in Aqueous Methylcellulose Solutions. Macromolecules, 2013, 46, 300-309. | 2.2 | 124 |
| 94 | Meltblown fibers: Influence of viscosity and elasticity on diameter distribution. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 892-900. | 1.0 | 122 |
| 95 | ABCA Tetrablock Copolymer Vesicles. Macromolecules, 2004, 37, 8816-8819. | 2.2 | 121 |
| 96 | From Membranes to Melts, Rouse to Reptation:Â Diffusion in Polymersome versus Lipid Bilayers. Macromolecules, 2002, 35, 323-326. | 2.2 | 120 |
| 97 | Molecular Weight Dependence of Zero-Shear Viscosity in Atactic Polypropylene Bottlebrush Polymers. ACS Macro Letters, 2014, 3, 423-427. | 2.3 | 116 |
| 98 | Real space observation of dynamic scaling in a critical polymer mixture. Physical Review Letters, 1993, 71, 3669-3672. | 2.9 | 115 |
| 99 | Transition Mechanisms for Complex Ordered Phases in Block Copolymer Melts. Journal of Physical Chemistry B, 1998, 102, 1356-1363. | 1.2 | 115 |
| 100 | Order-disorder transition: diblock versus triblock copolymers. Macromolecules, 1992, 25, 939-943. | 2.2 | 114 |
| 101 | Isotropic Lifshitz Behavior in Block Copolymer-Homopolymer Blends. Physical Review Letters, 1995, 75, 4429-4432. | 2.9 | 112 |
| 102 | Crystallization of nanoscale-confined diblock copolymer chains. Polymer, 1996, 37, 4425-4429. | 1.8 | 112 |
| 103 | Stable Frankâ€“Kasper phases of self-assembled, soft matter spheres. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10233-10238. | 3.3 | 111 |
| 104 | Structure of porous Vycor glass. Physical Review A, 1987, 36, 2991-2994. | 1.0 | 109 |
| 105 | Dodecagonal Quasicrystalline Morphology in a Poly(styrene-b-isoprene-b-styrene-b-ethylene oxide) Tetrablock Terpolymer. Journal of the American Chemical Society, 2012, 134, 7636-7639. | 6.6 | 108 |
| 106 | Conformational Asymmetry and Quasicrystal Approximants in Linear Diblock Copolymers. Physical Review Letters, 2017, 118, 207801. | 2.9 | 107 |
| 107 | Compatibilization of Isotactic Polypropylene (iPP) and High-Density Polyethylene (HDPE) with iPPâ€“PE Multiblock Copolymers. Macromolecules, 2018, 51, 8585-8596. | 2.2 | 106 |
| 108 | Single Molecule Visualization of Stable, Stiffness-Tunable, Flow-Conforming Worm Micelles. Macromolecules, 2003, 36, 6873-6877. | 2.2 | 105 |

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| 109 | Directly Resolved Core-Corona Structure of Block Copolymer Micelles by Cryo-Transmission Electron Microscopy. Journal of Physical Chemistry B, 1999, 103, 10331-10334. | 1.2 | 104 |
| 110 | Mesoporous Membrane Templated by a Polymeric Bicontinuous Microemulsion. Nano Letters, 2006, 6, 2354-2357. | 4.5 | 104 |
| 111 | Heterogeneous catalytic hydrogenation of polystyrene: thermodynamics of poly(vinylcyclohexane)-containing diblock copolymers. Macromolecules, 1993, 26, 4122-4127. | 2.2 | 103 |
| 112 | Phase Behavior of Lithium Perchlorate-Doped Poly(styrene-b-isoprene-b-ethylene oxide) Triblock Copolymers. Chemistry of Materials, 2002, 14, 1706-1714. | 3.2 | 103 |
| 113 | Interfacial Reaction Induced Roughening in Polymer Blends. Macromolecules, 1999, 32, 106-110. | 2.2 | 102 |
| 114 | Effect of crosslink density on fracture behavior of model epoxies containing block copolymer nanoparticles. Polymer, 2009, 50, 4683-4689. | 1.8 | 101 |
| 115 | Origins of low-symmetry phases in asymmetric diblock copolymer melts. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 847-854. | 3.3 | 101 |
| 116 | Microphase structure of solvent-cast diblock copolymers and copolymer-homopolymer blends containing spherical microdomains. Macromolecules, 1983, 16, 1101-1108. | 2.2 | 100 |
| 117 | Fibrillar Structure of Methylcellulose Hydrogels. Biomacromolecules, 2013, 14, 2484-2488. | 2.6 | 100 |
| 118 | Thermodynamics of isotopic polymer mixtures: poly(vinylethylene) and poly(ethylethylene). Macromolecules, 1988, 21, 1086-1094. | 2.2 | 99 |
| 119 | Ordering in asymmetric poly (ethyleneâ€“propylene)â€“poly (ethylethylene) diblock copolymer thin films. Journal of Chemical Physics, 1994, 100, 1620-1629. | 1.2 | 99 |
| 120 | Consequences of Block Number on the Orderâ^'Disorder Transition and Viscoelastic Properties of Linear (AB)nMultiblock Copolymers. Macromolecules, 2004, 37, 3360-3368. | 2.2 | 99 |
| 121 | Defining the Macromolecules of Tomorrow through Synergistic Sustainable Polymer Research. Chemical Reviews, 2022, 122, 6322-6373. | 23.0 | 99 |
| 122 | Design of ABC Triblock Copolymers near the ODT with the Random Phase Approximation. Macromolecules, 2003, 36, 782-792. | 2.2 | 98 |
| 123 | Comprehensive Phase Behavior of Poly(isoprene-b-styrene-b-ethylene oxide) Triblock Copolymers. Macromolecules, 2007, 40, 2882-2896. | 2.2 | 97 |
| 124 | Sustainable Poly(lactide-b-butadiene) Multiblock Copolymers with Enhanced Mechanical Properties. Macromolecules, 2013, 46, 7387-7398. | 2.2 | 97 |
| 125 | Consequences of Grafting Density on the Linear Viscoelastic Behavior of Graft Polymers. ACS Macro Letters, 2018, 7, 525-530. | 2.3 | 97 |
| 126 | Advances in Polymer Design for Enhancing Oral Drug Solubility and Delivery. Bioconjugate Chemistry, 2018, 29, 939-952. | 1.8 | 97 |

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| 127 | The Effect of Polymer Chain Length and Surface Density on the Adhesiveness of Functionalized Polymersomes. Langmuir, 2004, 20, 5493-5500. | 1.6 | 95 |
| 128 | Molecular Exchange in Ordered Diblock Copolymer Micelles. Macromolecules, 2011, 44, 3594-3604. | 2.2 | 94 |
| 129 | Tough and Sustainable Graft Block Copolymer Thermoplastics. ACS Macro Letters, 2016, 5, 407-412. | 2.3 | 94 |
| 130 | Cornucopia of Nanoscale Ordered Phases in Sphere-Forming Tetrablock Terpolymers. ACS Nano, 2016, 10, 4961-4972. | 7.3 | 93 |
| 131 | Methacrylic Block Copolymers through Metal-Mediated Living Free Radical Polymerization for Modification of Thermosetting Epoxy. Macromolecules, 2001, 34, 8593-8595. | 2.2 | 92 |
| 132 | Coalescence in polymer blends during shearing. AICHE Journal, 2000, 46, 229-238. | 1.8 | 91 |
| 133 | Ternary Polymer Blends as Model Surfactant Systems. Journal of Physical Chemistry B, 2000, 104, 6987-6997. | 1.2 | 91 |
| 134 | Order, disorder, and fluctuation effects in an asymmetric poly(ethyleneâ€propylene)â€poly(ethylethylene) diblock copolymer. Journal of Chemical Physics, 1992, 96, 9122-9132. | 1.2 | 90 |
| 135 | Aqueous Dispersions of Poly(ethylene oxide)-b-poly(Î³-methyl-Îµ-caprolactone) Block Copolymers. Macromolecules, 2006, 39, 4286-4288. | 2.2 | 90 |
| 136 | Entropy-driven surface segregation in block copolymer melts. Physical Review Letters, 1993, 70, 307-310. | 2.9 | 89 |
| 137 | Segment Distribution of the Micellar Brushes of Poly(ethylene oxide) via Small-Angle Neutron Scattering. Journal of Physical Chemistry B, 2000, 104, 7134-7143. | 1.2 | 89 |
| 138 | Fluctuations, Order, and Disorder in Short Diblock Copolymers. AICHE Journal, 2013, 59, 3502-3513. | 1.8 | 89 |
| 139 | Synthesis, Structure, and Properties of Alternating and Random Poly(styrene-b-butadiene) Multiblock Copolymers. Macromolecules, 2013, 46, 4529-4539. | 2.2 | 89 |
| 140 | Wormlike Micelle Formation in Peptide-Lipid Conjugates Driven by Secondary Structure Transformation of the Headgroups. Journal of Physical Chemistry B, 2009, 113, 13711-13714. | 1.2 | 88 |
| 141 | Molecular weight scaling in critical polymer mixtures. Physical Review Letters, 1992, 68, 2452-2455. | 2.9 | 87 |
| 142 | Structure of symmetric polyolefin block copolymer thin films. Journal of Chemical Physics, 1992, 96, 8605-8615. | 1.2 | 87 |
| 143 | Strain rate effect on toughening of nano-sized PEPâ€“PEO block copolymer modified epoxy. Acta Materialia, 2009, 57, 2691-2701. | 3.8 | 86 |
| 144 | Block copolymers near the microphase separation transition. 3. Small-angle neutron scattering study of the homogeneous melt state. Macromolecules, 1985, 18, 2478-2486. | 2.2 | 85 |

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| 145 | Influence of Shear on the Alignment of a Lamellae-Forming Pentablock Copolymer. Macromolecules, 2001, 34, 951-964. | 2.2 | 85 |
| 146 | Leuko-polymersomes. Faraday Discussions, 2008, 139, 129. | 1.6 | 85 |
| 147 | PCHE-based pentablock copolymers: Evolution of a new plastic. AICHE Journal, 2001, 47, 762-765. | 1.8 | 84 |
| 148 | Nanofibers from Melt Blown Fiber-in-Fiber Polymer Blends. ACS Macro Letters, 2013, 2, 301-305. | 2.3 | 84 |
| 149 | Flow-Induced Reactive Self-Assembly. Macromolecules, 1997, 30, 1243-1246. | 2.2 | 83 |
| 150 | Phase Behavior of Nonfrustrated ABC Triblock Copolymers: Weak and Intermediate Segregation. Macromolecules, 2010, 43, 5128-5136. | 2.2 | 83 |
| 151 | Toughening Glassy Poly(lactide) with Block Copolymer Micelles. ACS Macro Letters, 2016, 5, 359-364. | 2.3 | 83 |
| 152 | Synthesis and characterization of a model saturated hydrocarbon diblock copolymer. Macromolecules, 1989, 22, 2557-2564. | 2.2 | 80 |
| 153 | Block Copolymer Self-Diffusion in the Gyroid and Cylinder Morphologies. Macromolecules, 1998, 31, 5363-5370. | 2.2 | 79 |
| 154 | Static and dynamic scattering from ternary polymer blends: Bicontinuous microemulsions, Lifshitz lines, and amphiphilicity. Journal of Chemical Physics, 2001, 114, 7247-7259. | 1.2 | 79 |
| 155 | Role of Molecular Architecture in Mechanical Failure of Glassy/Semicrystalline Block Copolymers:Â CEC vs CECEC Lamellae. Macromolecules, 2003, 36, 2190-2193. | 2.2 | 79 |
| 156 | Silica nanoparticle dispersions in homopolymer versus block copolymer. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 2284-2299. | 2.4 | 78 |
| 157 | Dynamic mechanical properties of polystyrene containing microspherical inclusions of polybutadiene: influence of domain boundaries and rubber molecular weight. Macromolecules, 1983, 16, 1108-1114. | 2.2 | 77 |
| 158 | Dynamically sheared body-centered-cubic ordered diblock copolymer melt. Macromolecules, 1993, 26, 4058-4060. | 2.2 | 77 |
| 159 | Structure and Properties of Semicrystallineâ^'Rubbery Multiblock Copolymers. Macromolecules, 2006, 39, 667-677. | 2.2 | 77 |
| 160 | Spinodal decomposition in isotopic polymer mixtures. Physical Review Letters, 1988, 60, 1538-1541. | 2.9 | 76 |
| 161 | High-Strength Welds in Metallocene Polypropylene/Polyethylene Laminates. Science, 2000, 288, 2187-2190. | 6.0 | 76 |
| 162 | Self-Assembly of Fibronectin Mimetic Peptide-Amphiphile Nanofibers. Langmuir, 2010, 26, 1953-1959. | 1.6 | 76 |

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| 163 | Targeted Polymersome Delivery of siRNA Induces Cell Death of Breast Cancer Cells Dependent upon Orai3 Protein Expression. Langmuir, 2012, 28, 12816-12830. | 1.6 | 75 |
| 164 | Fibrillar Structure in Aqueous Methylcellulose Solutions and Gels. Macromolecules, 2013, 46, 9760-9771. | 2.2 | 74 |
| 165 | Modeling of coalescence in polymer blends. AICHE Journal, 2002, 48, 7-14. | 1.8 | 73 |
| 166 | PR_b-targeted delivery of tumor necrosis factor-Î± by polymersomes for the treatment of prostate cancer. Soft Matter, 2009, 5, 2011. | 1.2 | 73 |
| 167 | Network Phases in Block Copolymer Melts. MRS Bulletin, 2005, 30, 525-532. | 1.7 | 71 |
| 168 | Structure of Poly(styrene-b-ethylene-alt-propylene) Diblock Copolymer Micelles in Squalane. Journal of Physical Chemistry B, 2009, 113, 13840-13848. | 1.2 | 70 |
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