

Frank S Bates

List of Publications by Year in descending order

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460
papers

50,497
citations

1697

104
h-index

1851

209
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464
all docs

464
docs citations

464
times ranked

21545
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	<i>50th Anniversary Perspective</i>: 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
19	Fluctuations, conformational asymmetry and block copolymer phase behaviour. <i>Faraday Discussions</i> , 1994, 98, 7-18.	1.6	399
20	Self-Assembly and Polymerization of Epoxy Resin-Amphiphilic Block Copolymer Nanocomposites. <i>Journal of the American Chemical Society</i> , 1997, 119, 2749-2750.	6.6	393
21	Combining polyethylene and polypropylene: Enhanced performance with PE/PP multiblock polymers. <i>Science</i> , 2017, 355, 814-816.	6.0	393
22	Preparation, stability, and in vitro performance of vesicles made with diblock copolymers. <i>Biotechnology and Bioengineering</i> , 2001, 73, 135-145.	1.7	384
23	Consequences of Nonergodicity in Aqueous Binary PEO \sim PB Micellar Dispersions. <i>Macromolecules</i> , 2004, 37, 1511-1523.	2.2	379
24	Discovery of a Frank-Kasper Γ f Phase in Sphere-Forming Block Copolymer Melts. <i>Science</i> , 2010, 330, 349-353.	6.0	379
25	Spinodal decomposition of a symmetric critical mixture of deuterated and protonated polymer. <i>Journal of Chemical Physics</i> , 1989, 91, 3258-3274.	1.2	375
26	High Γ Block Polymers: How Far Can We Go?. <i>ACS Macro Letters</i> , 2015, 4, 1044-1050.	2.3	370
27	Near-infrared-emissive polymersomes: Self-assembled soft matter for in vivo optical imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 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. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3354-3364.	1.2	320
29	Synthesis and Characterization of Model Polyalkane \sim Poly(ethylene oxide) Block Copolymers. <i>Macromolecules</i> , 1996, 29, 6994-7002.	2.2	306
30	Shrinkage of a Rapidly Growing Tumor by Drug-Loaded Polymersomes: A pH-Triggered Release through Copolymer Degradation. <i>Molecular Pharmaceutics</i> , 2006, 3, 340-350.	2.3	305
31	Polymeric Bicontinuous Microemulsions. <i>Physical Review Letters</i> , 1997, 79, 849-852.	2.9	300
32	Molecular and Mesoscopic Structures of Transparent Block Copolymer \sim Silica Monoliths. <i>Macromolecules</i> , 1999, 32, 4332-4342.	2.2	279
33	Ordered Network Mesostructures in Block Polymer Materials. <i>Macromolecules</i> , 2009, 42, 7221-7250.	2.2	277
34	Hexagonal mesophases between lamellae and cylinders in a diblock copolymer melt. <i>Macromolecules</i> , 1993, 26, 5959-5970.	2.2	263
35	Nanostructure Toughened Epoxy Resins. <i>Macromolecules</i> , 2003, 36, 9267-9270.	2.2	263
36	Stability of the Perforated Layer (PL) Phase in Diblock Copolymer Melts. <i>Macromolecules</i> , 1997, 30, 3788-3795.	2.2	259

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

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

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

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91	Tat-Functionalized Near-Infrared Emissive Polymersomes for Dendritic Cell Labeling. <i>Bioconjugate Chemistry</i> , 2007, 18, 31-40.	1.8	128
92	Interference of spinodal waves in thin polymer films. <i>Macromolecules</i> , 1993, 26, 5566-5571.	2.2	125
93	Interplay of Phase Separation and Thermoreversible Gelation in Aqueous Methylcellulose Solutions. <i>Macromolecules</i> , 2013, 46, 300-309.	2.2	124
94	Meltblown fibers: Influence of viscosity and elasticity on diameter distribution. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010, 165, 892-900.	1.0	122
95	ABCA Tetrablock Copolymer Vesicles. <i>Macromolecules</i> , 2004, 37, 8816-8819.	2.2	121
96	From Membranes to Melts, Rouse to Reptation: Λ Diffusion in Polymersome versus Lipid Bilayers. <i>Macromolecules</i> , 2002, 35, 323-326.	2.2	120
97	Molecular Weight Dependence of Zero-Shear Viscosity in Atactic Polypropylene Bottlebrush Polymers. <i>ACS Macro Letters</i> , 2014, 3, 423-427.	2.3	116
98	Real space observation of dynamic scaling in a critical polymer mixture. <i>Physical Review Letters</i> , 1993, 71, 3669-3672.	2.9	115
99	Transition Mechanisms for Complex Ordered Phases in Block Copolymer Melts. <i>Journal of Physical Chemistry B</i> , 1998, 102, 1356-1363.	1.2	115
100	Order-disorder transition: diblock versus triblock copolymers. <i>Macromolecules</i> , 1992, 25, 939-943.	2.2	114
101	Isotropic Lifshitz Behavior in Block Copolymer-Homopolymer Blends. <i>Physical Review Letters</i> , 1995, 75, 4429-4432.	2.9	112
102	Crystallization of nanoscale-confined diblock copolymer chains. <i>Polymer</i> , 1996, 37, 4425-4429.	1.8	112
103	Stable Frank-Kasper phases of self-assembled, soft matter spheres. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10233-10238.	3.3	111
104	Structure of porous Vycor glass. <i>Physical Review A</i> , 1987, 36, 2991-2994.	1.0	109
105	Dodecagonal Quasicrystalline Morphology in a Poly(styrene- <i>b</i> -isoprene- <i>b</i> -styrene- <i>b</i> -ethylene oxide) Tetrablock Terpolymer. <i>Journal of the American Chemical Society</i> , 2012, 134, 7636-7639.	6.6	108
106	Conformational Asymmetry and Quasicrystal Approximants in Linear Diblock Copolymers. <i>Physical Review Letters</i> , 2017, 118, 207801.	2.9	107
107	Compatibilization of Isotactic Polypropylene (<i>i</i> -PP) and High-Density Polyethylene (HDPE) with <i>i</i> -PP- <i>b</i> -PE Multiblock Copolymers. <i>Macromolecules</i> , 2018, 51, 8585-8596.	2.2	106
108	Single Molecule Visualization of Stable, Stiffness-Tunable, Flow-Conforming Worm Micelles. <i>Macromolecules</i> , 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. <i>Journal of Physical Chemistry B</i> , 1999, 103, 10331-10334.	1.2	104
110	Mesoporous Membrane Templated by a Polymeric Bicontinuous Microemulsion. <i>Nano Letters</i> , 2006, 6, 2354-2357.	4.5	104
111	Heterogeneous catalytic hydrogenation of polystyrene: thermodynamics of poly(vinylcyclohexane)-containing diblock copolymers. <i>Macromolecules</i> , 1993, 26, 4122-4127.	2.2	103
112	Phase Behavior of Lithium Perchlorate-Doped Poly(styrene- <i>b</i> -isoprene- <i>b</i> -ethylene oxide) Triblock Copolymers. <i>Chemistry of Materials</i> , 2002, 14, 1706-1714.	3.2	103
113	Interfacial Reaction Induced Roughening in Polymer Blends. <i>Macromolecules</i> , 1999, 32, 106-110.	2.2	102
114	Effect of crosslink density on fracture behavior of model epoxies containing block copolymer nanoparticles. <i>Polymer</i> , 2009, 50, 4683-4689.	1.8	101
115	Origins of low-symmetry phases in asymmetric diblock copolymer melts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 847-854.	3.3	101
116	Microphase structure of solvent-cast diblock copolymers and copolymer-homopolymer blends containing spherical microdomains. <i>Macromolecules</i> , 1983, 16, 1101-1108.	2.2	100
117	Fibrillar Structure of Methylcellulose Hydrogels. <i>Biomacromolecules</i> , 2013, 14, 2484-2488.	2.6	100
118	Thermodynamics of isotopic polymer mixtures: poly(vinylethylene) and poly(ethylethylene). <i>Macromolecules</i> , 1988, 21, 1086-1094.	2.2	99
119	Ordering in asymmetric poly(ethylene- <i>b</i> -propylene)- <i>b</i> -poly(ethylethylene) diblock copolymer thin films. <i>Journal of Chemical Physics</i> , 1994, 100, 1620-1629.	1.2	99
120	Consequences of Block Number on the Order-Disorder Transition and Viscoelastic Properties of Linear (AB) _n Multiblock Copolymers. <i>Macromolecules</i> , 2004, 37, 3360-3368.	2.2	99
121	Defining the Macromolecules of Tomorrow through Synergistic Sustainable Polymer Research. <i>Chemical Reviews</i> , 2022, 122, 6322-6373.	23.0	99
122	Design of ABC Triblock Copolymers near the ODT with the Random Phase Approximation. <i>Macromolecules</i> , 2003, 36, 782-792.	2.2	98
123	Comprehensive Phase Behavior of Poly(isoprene- <i>b</i> -styrene- <i>b</i> -ethylene oxide) Triblock Copolymers. <i>Macromolecules</i> , 2007, 40, 2882-2896.	2.2	97
124	Sustainable Poly(lactide- <i>b</i> -butadiene) Multiblock Copolymers with Enhanced Mechanical Properties. <i>Macromolecules</i> , 2013, 46, 7387-7398.	2.2	97
125	Consequences of Grafting Density on the Linear Viscoelastic Behavior of Graft Polymers. <i>ACS Macro Letters</i> , 2018, 7, 525-530.	2.3	97
126	Advances in Polymer Design for Enhancing Oral Drug Solubility and Delivery. <i>Bioconjugate Chemistry</i> , 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. <i>Langmuir</i> , 2004, 20, 5493-5500.	1.6	95
128	Molecular Exchange in Ordered Diblock Copolymer Micelles. <i>Macromolecules</i> , 2011, 44, 3594-3604.	2.2	94
129	Tough and Sustainable Graft Block Copolymer Thermoplastics. <i>ACS Macro Letters</i> , 2016, 5, 407-412.	2.3	94
130	Cornucopia of Nanoscale Ordered Phases in Sphere-Forming Tetrablock Terpolymers. <i>ACS Nano</i> , 2016, 10, 4961-4972.	7.3	93
131	Methacrylic Block Copolymers through Metal-Mediated Living Free Radical Polymerization for Modification of Thermosetting Epoxy. <i>Macromolecules</i> , 2001, 34, 8593-8595.	2.2	92
132	Coalescence in polymer blends during shearing. <i>AIChE Journal</i> , 2000, 46, 229-238.	1.8	91
133	Ternary Polymer Blends as Model Surfactant Systems. <i>Journal of Physical Chemistry B</i> , 2000, 104, 6987-6997.	1.2	91
134	Order, disorder, and fluctuation effects in an asymmetric poly(ethylene- <i>co</i> -propylene)- <i>co</i> -poly(ethylene) diblock copolymer. <i>Journal of Chemical Physics</i> , 1992, 96, 9122-9132.	1.2	90
135	Aqueous Dispersions of Poly(ethylene oxide)- <i>b</i> -poly(β -methyl- γ -caprolactone) Block Copolymers. <i>Macromolecules</i> , 2006, 39, 4286-4288.	2.2	90
136	Entropy-driven surface segregation in block copolymer melts. <i>Physical Review Letters</i> , 1993, 70, 307-310.	2.9	89
137	Segment Distribution of the Micellar Brushes of Poly(ethylene oxide) via Small-Angle Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7134-7143.	1.2	89
138	Fluctuations, Order, and Disorder in Short Diblock Copolymers. <i>AIChE Journal</i> , 2013, 59, 3502-3513.	1.8	89
139	Synthesis, Structure, and Properties of Alternating and Random Poly(styrene- <i>co</i> -butadiene) Multiblock Copolymers. <i>Macromolecules</i> , 2013, 46, 4529-4539.	2.2	89
140	Wormlike Micelle Formation in Peptide-Lipid Conjugates Driven by Secondary Structure Transformation of the Headgroups. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13711-13714.	1.2	88
141	Molecular weight scaling in critical polymer mixtures. <i>Physical Review Letters</i> , 1992, 68, 2452-2455.	2.9	87
142	Structure of symmetric polyolefin block copolymer thin films. <i>Journal of Chemical Physics</i> , 1992, 96, 8605-8615.	1.2	87
143	Strain rate effect on toughening of nano-sized PEP- <i>co</i> -PEO block copolymer modified epoxy. <i>Acta Materialia</i> , 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. <i>Macromolecules</i> , 1985, 18, 2478-2486.	2.2	85

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145	Influence of Shear on the Alignment of a Lamellae-Forming Pentablock Copolymer. <i>Macromolecules</i> , 2001, 34, 951-964.	2.2	85
146	Leuko-polymerosomes. <i>Faraday Discussions</i> , 2008, 139, 129.	1.6	85
147	PCHE-based pentablock copolymers: Evolution of a new plastic. <i>AIChE Journal</i> , 2001, 47, 762-765.	1.8	84
148	Nanofibers from Melt Blown Fiber-in-Fiber Polymer Blends. <i>ACS Macro Letters</i> , 2013, 2, 301-305.	2.3	84
149	Flow-Induced Reactive Self-Assembly. <i>Macromolecules</i> , 1997, 30, 1243-1246.	2.2	83
150	Phase Behavior of Nonfrustrated ABC Triblock Copolymers: Weak and Intermediate Segregation. <i>Macromolecules</i> , 2010, 43, 5128-5136.	2.2	83
151	Toughening Glassy Poly(lactide) with Block Copolymer Micelles. <i>ACS Macro Letters</i> , 2016, 5, 359-364.	2.3	83
152	Synthesis and characterization of a model saturated hydrocarbon diblock copolymer. <i>Macromolecules</i> , 1989, 22, 2557-2564.	2.2	80
153	Block Copolymer Self-Diffusion in the Gyroid and Cylinder Morphologies. <i>Macromolecules</i> , 1998, 31, 5363-5370.	2.2	79
154	Static and dynamic scattering from ternary polymer blends: Bicontinuous microemulsions, Lifshitz lines, and amphiphilicity. <i>Journal of Chemical Physics</i> , 2001, 114, 7247-7259.	1.2	79
155	Role of Molecular Architecture in Mechanical Failure of Glassy/Semicrystalline Block Copolymers: \hat{A} CEC vs CECEC Lamellae. <i>Macromolecules</i> , 2003, 36, 2190-2193.	2.2	79
156	Silica nanoparticle dispersions in homopolymer versus block copolymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 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. <i>Macromolecules</i> , 1983, 16, 1108-1114.	2.2	77
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