

Frank S Bates

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446
papers

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h-index

197
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464
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46,840
ext. citations

6.4
avg, IF

7.62
L-index

#	Paper	IF	Citations
446	Block copolymer thermodynamics: theory and experiment. <i>Annual Review of Physical Chemistry</i> , 1990 , 41, 525-57	15.7	3200
445	Block Copolymers Designer Soft Materials. <i>Physics Today</i> , 1999 , 52, 32-38	0.9	2423
444	Polymersomes: tough vesicles made from diblock copolymers. <i>Science</i> , 1999 , 284, 1143-6	33.3	2155
443	Unifying Weak- and Strong-Segregation Block Copolymer Theories. <i>Macromolecules</i> , 1996 , 29, 1091-1098	5.5	1461
442	On the origins of morphological complexity in block copolymer surfactants. <i>Science</i> , 2003 , 300, 460-4	33.3	1103
441	Polyisoprene-Polystyrene Diblock Copolymer Phase Diagram near the Order-Disorder Transition. <i>Macromolecules</i> , 1995 , 28, 8796-8806	5.5	875
440	Multiblock polymers: panacea or Pandora's box?. <i>Science</i> , 2012 , 336, 434-40	33.3	778
439	Giant wormlike rubber micelles. <i>Science</i> , 1999 , 283, 960-3	33.3	620
438	Self-assembly of Janus dendrimers into uniform dendrimersomes and other complex architectures. <i>Science</i> , 2010 , 328, 1009-14	33.3	589
437	Biodegradable polymersomes loaded with both paclitaxel and doxorubicin permeate and shrink tumors, inducing apoptosis in proportion to accumulated drug. <i>Journal of Controlled Release</i> , 2006 , 116, 150-8	11.7	473
436	Molecular Weight Dependence of Polymersome Membrane Structure, Elasticity, and Stability. <i>Macromolecules</i> , 2002 , 35, 8203-8208	5.5	469
435	Polymer vesicles in vivo: correlations with PEG molecular weight. <i>Journal of Controlled Release</i> , 2003 , 90, 323-34	11.7	451
434	50th Anniversary Perspective: Block PolymersBure Potential. <i>Macromolecules</i> , 2017 , 50, 3-22	5.5	436
433	Fluctuation effects in a symmetric diblock copolymer near the order disorder transition. <i>Journal of Chemical Physics</i> , 1990 , 92, 6255-6270	3.9	390
432	Nanostructured Thermosets from Self-Assembled Amphiphilic Block Copolymer/Epoxy Resin Mixtures. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8963-8970	16.4	377
431	Surface-directed spinodal decomposition. <i>Physical Review Letters</i> , 1991 , 66, 1326-1329	7.4	370
430	Complex Phase Behavior of Polyisoprene-Polystyrene Diblock Copolymers Near the Order-Disorder Transition. <i>Macromolecules</i> , 1994 , 27, 6922-6935	5.5	367

429	Self-Assembly and Polymerization of Epoxy Resin-Amphiphilic Block Copolymer Nanocomposites. <i>Journal of the American Chemical Society</i> , 1997 , 119, 2749-2750	16.4	362
428	Fluctuations, conformational asymmetry and block copolymer phase behaviour. <i>Faraday Discussions</i> , 1994 , 98, 7-18	3.6	359
427	Consequences of Nonergodicity in Aqueous Binary PEO/BB Micellar Dispersions. <i>Macromolecules</i> , 2004 , 37, 1511-1523	5.5	357
426	Melt blown nanofibers: Fiber diameter distributions and onset of fiber breakup. <i>Polymer</i> , 2007 , 48, 3306-3316	3.9	347
425	Spinodal decomposition of a symmetric critical mixture of deuterated and protonated polymer. <i>Journal of Chemical Physics</i> , 1989 , 91, 3258-3274	3.9	343
424	Preparation, stability, and in vitro performance of vesicles made with diblock copolymers. <i>Biotechnology and Bioengineering</i> , 2001 , 73, 135-45	4.9	340
423	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, 2922-7	11.5	326
422	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	3.4	296
421	Discovery of a Frank-Kasper sigma phase in sphere-forming block copolymer melts. <i>Science</i> , 2010 , 330, 349-53	33.3	293
420	High Π ow N Block Polymers: How Far Can We Go?. <i>ACS Macro Letters</i> , 2015 , 4, 1044-1050	6.6	289
419	Shrinkage of a rapidly growing tumor by drug-loaded polymersomes: pH-triggered release through copolymer degradation. <i>Molecular Pharmaceutics</i> , 2006 , 3, 340-50	5.6	284
418	Synthesis and Characterization of Model Polyalkane/Poly(ethylene oxide) Block Copolymers. <i>Macromolecules</i> , 1996 , 29, 6994-7002	5.5	281
417	Polymeric Bicontinuous Microemulsions. <i>Physical Review Letters</i> , 1997 , 79, 849-852	7.4	270
416	Molecular and Mesoscopic Structures of Transparent Block Copolymer/Silica Monoliths. <i>Macromolecules</i> , 1999 , 32, 4332-4342	5.5	258
415	Combining polyethylene and polypropylene: Enhanced performance with PE/PP multiblock polymers. <i>Science</i> , 2017 , 355, 814-816	33.3	251
414	Nanostructure Toughened Epoxy Resins. <i>Macromolecules</i> , 2003 , 36, 9267-9270	5.5	245
413	Bioresorbable Vesicles Formed through Spontaneous Self-Assembly of Amphiphilic Poly(ethylene oxide)-block-polycaprolactone. <i>Macromolecules</i> , 2006 , 39, 1673-1675	5.5	243
412	Reactive Block Copolymers for Modification of Thermosetting Epoxy. <i>Macromolecules</i> , 2000 , 33, 9522-9534	3.4	239

411	Stability of the Perforated Layer (PL) Phase in Diblock Copolymer Melts. <i>Macromolecules</i> , 1997 , 30, 3788-3795	5.5	235
410	Cross-linked Polymersome Membranes: Vesicles with Broadly Adjustable Properties. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 2848-2854	3.4	233
409	Ordered Network Mesostuctures in Block Polymer Materials. <i>Macromolecules</i> , 2009 , 42, 7221-7250	5.5	231
408	Hexagonal mesophases between lamellae and cylinders in a diblock copolymer melt. <i>Macromolecules</i> , 1993 , 26, 5959-5970	5.5	230
407	Epitaxial relationship for hexagonal-to-cubic phase transition in a block copolymer mixture. <i>Physical Review Letters</i> , 1994 , 73, 86-89	7.4	229
406	Crystallization in Oriented Semicrystalline Diblock Copolymers. <i>Macromolecules</i> , 1996 , 29, 8835-8843	5.5	206
405	Layer structure preservation during swelling, pillaring, and exfoliation of a zeolite precursor. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1507-16	16.4	205
404	Gaussian- to stretched-coil transition in block copolymer melts. <i>Physical Review Letters</i> , 1990 , 65, 1112-1115	7.4	189
403	Critical behavior of binary liquid mixtures of deuterated and protonated polymers. <i>Physical Review Letters</i> , 1985 , 55, 2425-2428	7.4	189
402	Mechanical properties of block copolymer vesicle and micelle modified epoxies. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 2444-2456	2.6	188
401	A Noncubic Triply Periodic Network Morphology in Poly(isoprene-b-styrene-b-ethylene oxide) Triblock Copolymers. <i>Macromolecules</i> , 2002 , 35, 7007-7017	5.5	188
400	Shear-induced isotropic-to-lamellar transition. <i>Physical Review Letters</i> , 1993 , 70, 1449-1452	7.4	188
399	Entropic Corrections to the Flory-Huggins Theory of Polymer Blends: Architectural and Conformational Effects. <i>Macromolecules</i> , 1994 , 27, 2503-2511	5.5	187
398	Toughening of Epoxies with Block Copolymer Micelles of Wormlike Morphology. <i>Macromolecules</i> , 2010 , 43, 7238-7243	5.5	186
397	Order and Disorder in Symmetric Diblock Copolymer Melts. <i>Macromolecules</i> , 1995 , 28, 1429-1443	5.5	182
396	Ordered Network Phases in Linear Poly(isoprene-b-styrene-b-ethylene oxide) Triblock Copolymers. <i>Macromolecules</i> , 2004 , 37, 8325-8341	5.5	177
395	Block copolymers near the microphase separation transition. 2. Linear dynamic mechanical properties. <i>Macromolecules</i> , 1984 , 17, 2607-2613	5.5	176
394	Polymer vesicles in various media. <i>Current Opinion in Colloid and Interface Science</i> , 2000 , 5, 125-131	7.6	175

393	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	16.4	169
392	Phase Behavior of Pure Diblocks and Binary Diblock Blends of Poly(ethylene)Poly(ethylethylene). <i>Macromolecules</i> , 1996 , 29, 1204-1215	5.5	169
391	Micellar structure and mechanical properties of block copolymer-modified epoxies. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001 , 39, 2996-3010	2.6	168
390	Nanocavitation in Self-Assembled Amphiphilic Block Copolymer-Modified Epoxy. <i>Macromolecules</i> , 2008 , 41, 7616-7624	5.5	167
389	Phase Behavior of PolystyrenePoly(2-vinylpyridine) Diblock Copolymers. <i>Macromolecules</i> , 1996 , 29, 2857-2867	5.5	167
388	Sub-5 nm Domains in Ordered Poly(cyclohexylethylene)-block-poly(methyl methacrylate) Block Polymers for Lithography. <i>Macromolecules</i> , 2014 , 47, 1411-1418	5.5	164
387	Epitaxial growth and shearing of the body centered cubic phase in diblock copolymer melts. <i>Journal of Rheology</i> , 1994 , 38, 999-1027	4.1	164
386	Role of Block Copolymers on Suppression of Droplet Coalescence. <i>Macromolecules</i> , 2002 , 35, 7845-7855	5.5	163
385	Structure and properties of PBOPEO diblock copolymer modified epoxy. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005 , 43, 1950-1965	2.6	162
384	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, 17723-31	11.5	161
383	Molecular Exchange in PEOBB Micelles in Water. <i>Macromolecules</i> , 2003 , 36, 953-955	5.5	161
382	Thermal processing of diblock copolymer melts mimics metallurgy. <i>Science</i> , 2017 , 356, 520-523	33.3	159
381	Epoxy Toughening Using Low Molecular Weight Poly(hexylene oxide)Poly(ethylene oxide) Diblock Copolymers. <i>Macromolecules</i> , 2006 , 39, 7187-7189	5.5	155
380	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	3.9	153
379	Mechanism of molecular exchange in diblock copolymer micelles: hypersensitivity to core chain length. <i>Physical Review Letters</i> , 2010 , 104, 047802	7.4	152
378	Model Bicontinuous Microemulsions in Ternary Homopolymer/Block Copolymer Blends. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 4814-4824	3.4	151
377	Lamellae orientation in dynamically sheared diblock copolymer melts. <i>Journal De Physique II</i> , 1992 , 2, 1941-1959		147
376	SCFT Study of Nonfrustrated ABC Triblock Copolymer Melts. <i>Macromolecules</i> , 2007 , 40, 4654-4668	5.5	144

375	Laboratory-scale setup for anionic polymerization under inert atmosphere. <i>Review of Scientific Instruments</i> , 1995 , 66, 1090-1095	1.7	144
374	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. <i>Macromolecules</i> , 2003 , 36, 2873-2881	5.5	143
373	Isotope-induced quantum-phase transitions in the liquid state. <i>Physical Review Letters</i> , 1986 , 57, 1429-1432	4.2	143
372	Morphological Behavior Bridging the Symmetric AB and ABC States in the Poly(styrene-b-isoprene-b-ethylene oxide) Triblock Copolymer System. <i>Macromolecules</i> , 2001 , 34, 6994-7008	5.5	141
371	Block Copolymer Toughened Epoxy: Role of Cross-Link Density. <i>Macromolecules</i> , 2009 , 42, 2333-2335	5.5	140
370	Light-scattering experiments on phase-separation dynamics in binary fluid mixtures. <i>Physical Review A</i> , 1992 , 45, 885-897	2.6	140
369	Confined Block Copolymer Thin Films. <i>Macromolecules</i> , 1995 , 28, 2897-2904	5.5	137
368	Fluctuation-induced first-order transition of an isotropic system to a periodic state. <i>Physical Review Letters</i> , 1988 , 61, 2229-2232	7.4	130
367	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, 5167-72	11.5	126
366	Static and dynamic crossover in a critical polymer mixture. <i>Physical Review Letters</i> , 1990 , 65, 1893-1896	7.4	125
365	Correlation of binary polyolefin phase behavior with statistical segment length asymmetry. <i>Macromolecules</i> , 1992 , 25, 5547-5550	5.5	123
364	Network Phases in ABC Triblock Copolymers. <i>Macromolecules</i> , 2004 , 37, 7085-7088	5.5	122
363	Tat-functionalized near-infrared emissive polymersomes for dendritic cell labeling. <i>Bioconjugate Chemistry</i> , 2007 , 18, 31-40	6.3	121
362	Synthesis of ABA Triblock Copolymers by a Tandem ROMP/RAFT Strategy. <i>Macromolecules</i> , 2005 , 38, 7890-7894	5.5	119
361	Conformational Asymmetry and Polymer-Polymer Thermodynamics. <i>Macromolecules</i> , 1994 , 27, 1065-1067	5.5	119
360	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, 8357-62	11.5	118
359	Linear Rheology of Polyolefin-Based Bottlebrush Polymers. <i>Macromolecules</i> , 2015 , 48, 4680-4691	5.5	114
358	ABCA Tetrablock Copolymer Vesicles. <i>Macromolecules</i> , 2004 , 37, 8816-8819	5.5	114

357	From Membranes to Melts, Rouse to Reptation: Diffusion in Polymersome versus Lipid Bilayers. <i>Macromolecules</i> , 2002 , 35, 323-326	5.5	114
356	Interference of spinodal waves in thin polymer films. <i>Macromolecules</i> , 1993 , 26, 5566-5571	5.5	114
355	Bottlebrush Block Polymers: Quantitative Theory and Experiments. <i>ACS Nano</i> , 2015 , 9, 12233-45	16.7	111
354	Transition Mechanisms for Complex Ordered Phases in Block Copolymer Melts. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 1356-1363	3.4	111
353	Meltblown fibers: Influence of viscosity and elasticity on diameter distribution. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010 , 165, 892-900	2.7	105
352	Crystallization of nanoscale-confined diblock copolymer chains. <i>Polymer</i> , 1996 , 37, 4425-4429	3.9	105
351	Isotropic Lifshitz behavior in block copolymer-homopolymer blends. <i>Physical Review Letters</i> , 1995 , 75, 4429-4432	7.4	103
350	Real space observation of dynamic scaling in a critical polymer mixture. <i>Physical Review Letters</i> , 1993 , 71, 3669-3672	7.4	103
349	Structure of porous Vycor glass. <i>Physical Review A</i> , 1987 , 36, 2991-2994	2.6	101
348	Broadly Accessible Self-Consistent Field Theory for Block Polymer Materials Discovery. <i>Macromolecules</i> , 2016 , 49, 4675-4690	5.5	100
347	Order-disorder transition: diblock versus triblock copolymers. <i>Macromolecules</i> , 1992 , 25, 939-943	5.5	100
346	Interplay of Phase Separation and Thermoreversible Gelation in Aqueous Methylcellulose Solutions. <i>Macromolecules</i> , 2013 , 46, 300-309	5.5	99
345	Single Molecule Visualization of Stable, Stiffness-Tunable, Flow-Conforming Worm Micelles. <i>Macromolecules</i> , 2003 , 36, 6873-6877	5.5	97
344	Phase Behavior of Lithium Perchlorate-Doped Poly(styrene-b-isoprene-b-ethylene oxide) Triblock Copolymers. <i>Chemistry of Materials</i> , 2002 , 14, 1706-1714	9.6	97
343	Mesoporous membrane templated by a polymeric bicontinuous microemulsion. <i>Nano Letters</i> , 2006 , 6, 2354-7	11.5	96
342	Ordering in asymmetric poly(ethylene-propylene)-poly(ethylene) diblock copolymer thin films. <i>Journal of Chemical Physics</i> , 1994 , 100, 1620-1629	3.9	95
341	The effect of polymer chain length and surface density on the adhesiveness of functionalized polymersomes. <i>Langmuir</i> , 2004 , 20, 5493-500	4	93
340	Interfacial Reaction Induced Roughening in Polymer Blends. <i>Macromolecules</i> , 1999 , 32, 106-110	5.5	93

- 339 Directly Resolved Core-Corona Structure of Block Copolymer Micelles by Cryo-Transmission Electron Microscopy. *Journal of Physical Chemistry B*, **1999**, 103, 10331-10334 3.4 92
- 338 Molecular Weight Dependence of Zero-Shear Viscosity in Atactic Polypropylene Bottlebrush Polymers.. *ACS Macro Letters*, **2014**, 3, 423-427 6.6 91
- 337 Methacrylic Block Copolymers through Metal-Mediated Living Free Radical Polymerization for Modification of Thermosetting Epoxy. *Macromolecules*, **2001**, 34, 8593-8595 5.5 91
- 336 Heterogeneous catalytic hydrogenation of polystyrene: thermodynamics of poly(vinylcyclohexane)-containing diblock copolymers. *Macromolecules*, **1993**, 26, 4122-4127 5.5 89
- 335 Thermodynamics of isotopic polymer mixtures: poly(vinylethylene) and poly(ethylethylene). *Macromolecules*, **1988**, 21, 1086-1094 5.5 89
- 334 Comprehensive Phase Behavior of Poly(isoprene-b-styrene-b-ethylene oxide) Triblock Copolymers. *Macromolecules*, **2007**, 40, 2882-2896 5.5 88
- 333 Dodecagonal quasicrystalline morphology in a poly(styrene-b-isoprene-b-styrene-b-ethylene oxide) tetrablock terpolymer. *Journal of the American Chemical Society*, **2012**, 134, 7636-9 16.4 87
- 332 Aqueous Dispersions of Poly(ethylene oxide)-b-poly(ϵ -methyl- ϵ -caprolactone) Block Copolymers. *Macromolecules*, **2006**, 39, 4286-4288 5.5 87
- 331 Order, disorder, and fluctuation effects in an asymmetric poly(ethylene-propylene)-poly(ethylethylene) diblock copolymer. *Journal of Chemical Physics*, **1992**, 96, 9122-9132 3.9 87
- 330 Fibrillar structure of methylcellulose hydrogels. *Biomacromolecules*, **2013**, 14, 2484-8 6.9 86
- 329 Microphase structure of solvent-cast diblock copolymers and copolymer-homopolymer blends containing spherical microdomains. *Macromolecules*, **1983**, 16, 1101-1108 5.5 86
- 328 Effect of crosslink density on fracture behavior of model epoxies containing block copolymer nanoparticles. *Polymer*, **2009**, 50, 4683-4689 3.9 85
- 327 Design of ABC Triblock Copolymers near the ODT with the Random Phase Approximation. *Macromolecules*, **2003**, 36, 782-792 5.5 85
- 326 Leuko-polymersomes. *Faraday Discussions*, **2008**, 139, 129-41; discussion 213-28, 419-20 3.6 84
- 325 Coalescence in polymer blends during shearing. *AIChE Journal*, **2000**, 46, 229-238 3.6 84
- 324 Segment Distribution of the Micellar Brushes of Poly(ethylene oxide) via Small-Angle Neutron Scattering. *Journal of Physical Chemistry B*, **2000**, 104, 7134-7143 3.4 84
- 323 Consequences of Block Number on the OrderDisorder Transition and Viscoelastic Properties of Linear (AB)_n Multiblock Copolymers. *Macromolecules*, **2004**, 37, 3360-3368 5.5 83
- 322 Ternary Polymer Blends as Model Surfactant Systems. *Journal of Physical Chemistry B*, **2000**, 104, 6987-6997 82

321	Entropy-driven surface segregation in block copolymer melts. <i>Physical Review Letters</i> , 1993 , 70, 307-310	7.4	80
320	Conformational Asymmetry and Quasicrystal Approximants in Linear Diblock Copolymers. <i>Physical Review Letters</i> , 2017 , 118, 207801	7.4	79
319	Molecular Exchange in Ordered Diblock Copolymer Micelles. <i>Macromolecules</i> , 2011 , 44, 3594-3604	5.5	79
318	Molecular weight scaling in critical polymer mixtures. <i>Physical Review Letters</i> , 1992 , 68, 2452-2455	7.4	79
317	Chemically Recyclable Biobased Polyurethanes. <i>ACS Macro Letters</i> , 2016 , 5, 515-518	6.6	79
316	Cornucopia of Nanoscale Ordered Phases in Sphere-Forming Tetrablock Terpolymers. <i>ACS Nano</i> , 2016 , 10, 4961-72	16.7	79
315	Fluctuations, Order, and Disorder in Short Diblock Copolymers. <i>AIChE Journal</i> , 2013 , 59, 3502-3513	3.6	78
314	Influence of Shear on the Alignment of a Lamellae-Forming Pentablock Copolymer. <i>Macromolecules</i> , 2001 , 34, 951-964	5.5	78
313	Tough and Sustainable Graft Block Copolymer Thermoplastics. <i>ACS Macro Letters</i> , 2016 , 5, 407-412	6.6	77
312	Strain rate effect on toughening of nano-sized PEPBEO block copolymer modified epoxy. <i>Acta Materialia</i> , 2009 , 57, 2691-2701	8.4	77
311	Flow-Induced Reactive Self-Assembly. <i>Macromolecules</i> , 1997 , 30, 1243-1246	5.5	77
310	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	5.5	77
309	Wormlike micelle formation in peptide-lipid conjugates driven by secondary structure transformation of the headgroups. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 13711-4	3.4	76
308	Silica nanoparticle dispersions in homopolymer versus block copolymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 2284-2299	2.6	75
307	Structure of symmetric polyolefin block copolymer thin films. <i>Journal of Chemical Physics</i> , 1992 , 96, 8605-8615	5.8	75
306	Role of Molecular Architecture in Mechanical Failure of Glassy/Semicrystalline Block Copolymers: CEC vs CECEC Lamellae. <i>Macromolecules</i> , 2003 , 36, 2190-2193	5.5	74
305	PCHE-based pentablock copolymers: Evolution of a new plastic. <i>AIChE Journal</i> , 2001 , 47, 762-765	3.6	74
304	Sustainable Poly(lactide-b-butadiene) Multiblock Copolymers with Enhanced Mechanical Properties. <i>Macromolecules</i> , 2013 , 46, 7387-7398	5.5	73

303	Self-assembly of fibronectin mimetic peptide-amphiphile nanofibers. <i>Langmuir</i> , 2010 , 26, 1953-9	4	71
302	Block Copolymer Self-Diffusion in the Gyroid and Cylinder Morphologies. <i>Macromolecules</i> , 1998 , 31, 5363-5370	3.5	71
301	Synthesis and characterization of a model saturated hydrocarbon diblock copolymer. <i>Macromolecules</i> , 1989 , 22, 2557-2564	5.5	71
300	Nanofibers from Melt Blown Fiber-in-Fiber Polymer Blends.. <i>ACS Macro Letters</i> , 2013 , 2, 301-305	6.6	70
299	Synthesis, Structure, and Properties of Alternating and Random Poly(styrene-b-butadiene) Multiblock Copolymers. <i>Macromolecules</i> , 2013 , 46, 4529-4539	5.5	70
298	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	5.5	70
297	Static and dynamic scattering from ternary polymer blends: Bicontinuous microemulsions, Lifshitz lines, and amphiphilicity. <i>Journal of Chemical Physics</i> , 2001 , 114, 7247-7259	3.9	69
296	Spinodal decomposition in isotopic polymer mixtures. <i>Physical Review Letters</i> , 1988 , 60, 1538-1541	7.4	69
295	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	11.5	69
294	Targeted polymersome delivery of siRNA induces cell death of breast cancer cells dependent upon Ora13 protein expression. <i>Langmuir</i> , 2012 , 28, 12816-30	4	68
293	Dynamically sheared body-centered-cubic ordered diblock copolymer melt. <i>Macromolecules</i> , 1993 , 26, 4058-4060	5.5	68
292	Consequences of Grafting Density on the Linear Viscoelastic Behavior of Graft Polymers. <i>ACS Macro Letters</i> , 2018 , 7, 525-530	6.6	67
291	PR_b-targeted delivery of tumor necrosis factor- α by polymersomes for the treatment of prostate cancer. <i>Soft Matter</i> , 2009 , 5, 2011	3.6	67
290	Modeling of coalescence in polymer blends. <i>AIChE Journal</i> , 2002 , 48, 7-14	3.6	67
289	High-strength welds in metallocene Polypropylene/Polyethylene laminates. <i>Science</i> , 2000 , 288, 2187-90	33.3	67
288	Phase Behavior of Nonfrustrated ABC Triblock Copolymers: Weak and Intermediate Segregation. <i>Macromolecules</i> , 2010 , 43, 5128-5136	5.5	65
287	Structure and Properties of Semicrystalline Rubbery Multiblock Copolymers. <i>Macromolecules</i> , 2006 , 39, 667-677	5.5	65
286	Nucleation and growth of monodisperse droplets in a binary-fluid system. <i>Physical Review Letters</i> , 1990 , 65, 863-866	7.4	65

285	Design of bicontinuous polymeric microemulsions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997 , 35, 2775-2786	2.6	64
284	Microstructure and Mechanical Properties of Semicrystalline Rubbery Semicrystalline Triblock Copolymers. <i>Macromolecules</i> , 2005 , 38, 6090-6098	5.5	64
283	Quantitative membrane loading of polymer vesicles. <i>Soft Matter</i> , 2006 , 2, 973-980	3.6	64
282	Transmission electron microscopy of saturated hydrocarbon block copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995 , 33, 247-252	2.6	64
281	Synthesis, Thermodynamics, and Dynamics of Poly(4-tert-butylstyrene-b-methyl methacrylate). <i>Macromolecules</i> , 2012 , 45, 7228-7236	5.5	63
280	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	11.5	61
279	Fibrillar Structure in Aqueous Methylcellulose Solutions and Gels. <i>Macromolecules</i> , 2013 , 46, 9760-9771	5.5	61
278	Structure of poly(styrene-b-ethylene-alt-propylene) diblock copolymer micelles in squalane. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 13840-8	3.4	60
277	Selectively Epoxidized Polyisoprene-Polybutadiene Block Copolymers. <i>Macromolecules</i> , 2000 , 33, 2308-2310	3.9	60
276	Transfer of a chemical substrate pattern into an island-forming diblock copolymer film. <i>Journal of Chemical Physics</i> , 1999 , 111, 11101-11110	3.9	60
275	Order, Disorder, and Composition Fluctuation Effects in Low Molar Mass Hydrocarbon-Poly(dimethylsiloxane) Diblock Copolymers. <i>Macromolecules</i> , 1996 , 29, 5940-5947	5.5	59
274	Advances in Polymer Design for Enhancing Oral Drug Solubility and Delivery. <i>Bioconjugate Chemistry</i> , 2018 , 29, 939-952	6.3	58
273	Ordered three- and five-ply nanocomposites from ABC block terpolymer microphase separation with niobia and aluminosilicate sols. <i>Chemistry of Materials</i> , 2009 , 21, 5466-5473	9.6	58
272	Network Phases in Block Copolymer Melts. <i>MRS Bulletin</i> , 2005 , 30, 525-532	3.2	58
271	Toughening Glassy Poly(lactide) with Block Copolymer Micelles. <i>ACS Macro Letters</i> , 2016 , 5, 359-364	6.6	57
270	Influence of Water on the Structure and Properties of PDMS-Containing Multiblock Polyurethanes. <i>Macromolecules</i> , 2012 , 45, 9110-9120	5.5	57
269	Microstructure of triblock copolymers in asphalt oligomers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997 , 35, 2857-2877	2.6	57
268	Compatibilization of Isotactic Polypropylene (iPP) and High-Density Polyethylene (HDPE) with iPPBE Multiblock Copolymers. <i>Macromolecules</i> , 2018 , 51, 8585-8596	5.5	57

267	Block copolymer modified novolac epoxy resin. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 1994-2003	2.6	54
266	Consequences of Molecular Bridging in Lamellae-Forming Triblock/Pentablock Copolymer Blends. <i>Macromolecules</i> , 2003 , 36, 9879-9888	5.5	53
265	Self-diffusion of symmetric diblock copolymer melts near the ordering transition. <i>Macromolecules</i> , 1991 , 24, 1383-1386	5.5	53
264	Linear and Nonlinear Rheological Behavior of Fibrillar Methylcellulose Hydrogels. <i>ACS Macro Letters</i> , 2015 , 4, 538-542	6.6	52
263	Remarkable Effect of Molecular Architecture on Chain Exchange in Triblock Copolymer Micelles. <i>Macromolecules</i> , 2015 , 48, 2667-2676	5.5	52
262	Thermodynamic Behavior of Poly(cyclohexylethylene) in Polyolefin Diblock Copolymers. <i>Macromolecules</i> , 2002 , 35, 7368-7374	5.5	52
261	Influence of Conformational Asymmetry on Polymer-Polymer Interactions: An Entropic or Enthalpic Effect?. <i>Macromolecules</i> , 2002 , 35, 7685-7691	5.5	52
260	Comparison of Original and Cross-linked Wormlike Micelles of Poly(ethylene oxide-b-butadiene) in Water: Rheological Properties and Effects of Poly(ethylene oxide) Addition. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 8302-8311	3.4	51
259	Role of Localized Network Damage in Block Copolymer Toughened Epoxies.. <i>ACS Macro Letters</i> , 2012 , 1, 338-342	6.6	50
258	Consequences of surface neutralization in diblock copolymer thin films. <i>ACS Nano</i> , 2013 , 7, 9905-19	16.7	49
257	Design of Graft Block Polymer Thermoplastics. <i>Macromolecules</i> , 2016 , 49, 9108-9118	5.5	49
256	Structure-Conductivity Relationships in Ordered and Disordered Salt-Doped Diblock Copolymer/Homopolymer Blends. <i>Macromolecules</i> , 2016 , 49, 6928-6939	5.5	49
255	Decoupling Bulk Thermodynamics and Wetting Characteristics of Block Copolymer Thin Films.. <i>ACS Macro Letters</i> , 2012 , 1, 11-14	6.6	48
254	Conformational Asymmetry in Poly(vinylcyclohexane) Containing Diblock Copolymers. <i>Macromolecules</i> , 1994 , 27, 3611-3618	5.5	48
253	Synergistic Toughening of Epoxy Modified by Graphene and Block Copolymer Micelles. <i>Macromolecules</i> , 2016 , 49, 9507-9520	5.5	48
252	Water droplet spreading and imbibition on superhydrophilic poly(butylene terephthalate) melt-blown fiber mats. <i>Chemical Engineering Science</i> , 2016 , 146, 104-114	4.4	47
251	Chain Exchange in Binary Copolymer Micelles at Equilibrium: Confirmation of the Independent Chain Hypothesis.. <i>ACS Macro Letters</i> , 2013 , 2, 451-455	6.6	47
250	Structure and Properties of Hexa- and Undecablock Terpolymers with Hierarchical Molecular Architectures. <i>Macromolecules</i> , 2009 , 42, 3598-3610	5.5	47

249	Ordering in Blends of Diblock Copolymers. <i>Macromolecules</i> , 1998 , 31, 3498-3508	5.5	47
248	Controlling Bulk Optical Properties of Emissive Polymersomes Through Intramembranous Polymer-Fluorophore Interactions. <i>Chemistry of Materials</i> , 2007 , 19, 1309-1318	9.6	47
247	Effect of Tacticity on Coil Dimensions and Thermodynamic Properties of Polypropylene. <i>Macromolecules</i> , 2002 , 35, 5061-5068	5.5	47
246	High-Throughput Excipient Discovery Enables Oral Delivery of Poorly Soluble Pharmaceuticals. <i>ACS Central Science</i> , 2016 , 2, 748-755	16.8	47
245	Thermodynamics of Aqueous Methylcellulose Solutions. <i>Macromolecules</i> , 2015 , 48, 7205-7215	5.5	46
244	Influence of Laval nozzles on the air flow field in melt blowing apparatus. <i>Chemical Engineering Science</i> , 2012 , 80, 342-348	4.4	44
243	Phase Behavior of Isotactic Polypropylene/Poly(ethylene/ethylene) Random Copolymer Blends. <i>Macromolecules</i> , 1997 , 30, 3650-3657	5.5	44
242	Shear-Induced Lamellae Alignment in Matched Triblock and Pentablock Copolymers. <i>Macromolecules</i> , 2002 , 35, 4685-4689	5.5	44
241	Shear-induced nano-macro structural transition in a polymeric bicontinuous microemulsion. <i>Physical Review Letters</i> , 2001 , 87, 098301	7.4	44
240	Single-chain scattering in heterogeneous block copolymers. <i>Polymer</i> , 1983 , 24, 519-524	3.9	44
239	Measurement of the correlation hole in homogeneous block copolymer melts. <i>Macromolecules</i> , 1985 , 18, 525-528	5.5	44
238	Direct measurement of adhesion between viscoelastic polymers: A contact mechanical approach. <i>Journal of Rheology</i> , 1997 , 41, 1349-1364	4.1	43
237	Shear-induced network-to-network transition in a block copolymer melt. <i>Physical Review Letters</i> , 2004 , 93, 087802	7.4	43
236	Dynamics of ternary polymer blends: Disordered, ordered and bicontinuous microemulsion phases. <i>Faraday Discussions</i> , 1999 , 112, 335-350	3.6	43
235	Synthesis and Rheology of Branched Multiblock Polymers Based on Polylactide. <i>Macromolecules</i> , 2016 , 49, 4587-4598	5.5	42
234	Lithium Salt-Induced Microstructure and Ordering in Diblock Copolymer/Homopolymer Blends. <i>Macromolecules</i> , 2016 , 49, 4839-4849	5.5	41
233	Molecular Exchange in Diblock Copolymer Micelles: Bimodal Distribution in Core-Block Molecular Weights. <i>ACS Macro Letters</i> , 2012 , 1, 982-985	6.6	41
232	Semicrystalline blends of polyethylene and isotactic polypropylene: Improving mechanical performance by enhancing the interfacial structure 2000 , 38, 108-121		41

231	Structure, viscoelasticity, and interfacial dynamics of a model polymeric bicontinuous microemulsion. <i>Soft Matter</i> , 2016 , 12, 53-66	3.6	40
230	Precise Compositional Control and Systematic Preparation of Multimonomeric Statistical Copolymers. <i>ACS Macro Letters</i> , 2013 , 2, 770-774	6.6	40
229	Perpendicular Lamellae in Parallel Lamellae in a Hierarchical CECEC-P Hexablock Terpolymer. <i>Macromolecules</i> , 2009 , 42, 1691-1694	5.5	40
228	Crystallization and Mechanical Properties of Poly(l-lactide)-Based Rubbery/Semicrystalline Multiblock Copolymers. <i>Macromolecules</i> , 2015 , 48, 4529-4540	5.5	39
227	A15, $\sqrt{2}$ and a Quasicrystal: Access to Complex Particle Packings via Bidisperse Diblock Copolymer Blends. <i>ACS Macro Letters</i> , 2020 , 9, 197-203	6.6	39
226	Directed assembly of lamellae forming block copolymer thin films near the order-disorder transition. <i>Nano Letters</i> , 2014 , 14, 148-52	11.5	39
225	Molecular Weight Effects in the Hydrogenation of Model Polystyrenes Using Platinum Supported on Wide-Pore Silica. <i>Macromolecules</i> , 2002 , 35, 602-609	5.5	38
224	Synthesis and characterization of poly(vinylcyclohexane) derivatives. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995 , 33, 1527-1536	2.6	38
223	Transient Surface Roughening of Thin Films of Phase Separating Polymer Mixtures. <i>Langmuir</i> , 1996 , 12, 3716-3720	4	38
222	Deformation Processes in Block Copolymer Toughened Epoxies. <i>Macromolecules</i> , 2015 , 48, 3672-3684	5.5	37
221	Synthesis and self-assembly of RGD-functionalized PEO-PB amphiphiles. <i>Biomacromolecules</i> , 2009 , 10, 1554-63	6.9	37
220	Control of Mechanical Behavior in Polyolefin Composites: Integration of Glassy, Rubbery, and Semicrystalline Components. <i>Macromolecules</i> , 2007 , 40, 1585-1593	5.5	37
219	Influence of conformational asymmetry on the phase behavior of ternary homopolymer/block copolymer blends around the bicontinuous microemulsion channel. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 3979-89	3.4	37
218	Role of Crystallization on Polyolefin Interfaces: An Improved Outlook for Polyolefin Blends. <i>Macromolecules</i> , 2018 , 51, 2506-2516	5.5	36
217	Effect of block copolymer concentration and core composition on toughening epoxies. <i>Polymer</i> , 2014 , 55, 4172-4181	3.9	36
216	The Role of inclusion size in toughening of epoxy resins by spherical micelles. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 1125-1129	2.6	36
215	Shear-induced ordering kinetics of a triblock copolymer melt. <i>Journal of Chemical Physics</i> , 1998 , 108, 326-333	3.9	36
214	Block copolymers near the microphase separation transition. 1. Preparation and physical characterization of a model system. <i>Macromolecules</i> , 1984 , 17, 1987-1993	5.5	36

213	Enhanced Performance of Blended Polymer Excipients in Delivering a Hydrophobic Drug through the Synergistic Action of Micelles and HPMCAS. <i>Langmuir</i> , 2017 , 33, 2837-2848	4	35
212	Deconstructing HPMCAS: Excipient Design to Tailor Polymer-Drug Interactions for Oral Drug Delivery. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 978-990	5.5	35
211	Polymersomes functionalized via click chemistry with the fibronectin mimetic peptides PR_b and GRGDSP for targeted delivery to cells with different levels of $\alpha_5\beta_1$ expression. <i>Soft Matter</i> , 2012 , 8, 4449	3.6	35
210	Effects of shear flow on a polymeric bicontinuous microemulsion: Equilibrium and steady state behavior. <i>Journal of Rheology</i> , 2002 , 46, 529-554	4.1	35
209	The order-disorder transition in binary mixtures of nearly symmetric diblock copolymers. <i>Macromolecules</i> , 1990 , 23, 4336-4338	5.5	35
208	Impact of Polymer Excipient Molar Mass and End Groups on Hydrophobic Drug Solubility Enhancement. <i>Macromolecules</i> , 2017 , 50, 1102-1112	5.5	34
207	Emergence of a C15 Laves Phase in Diblock Polymer/Homopolymer Blends. <i>ACS Macro Letters</i> , 2020 , 9, 576-582	6.6	34
206	Proton Transport from Dendritic Helical-Pore-Incorporated Polymersomes. <i>Advanced Functional Materials</i> , 2009 , 19, 2930-2936	15.6	34
205	Disordered network state in hydrated block-copolymer surfactants. <i>Physical Review Letters</i> , 2006 , 96, 138304	7.4	34
204	Toughness of Glassy Semicrystalline Multiblock Copolymers. <i>Macromolecules</i> , 2006 , 39, 6221-6228	5.5	34
203	Bridge to Loop Transition in a Shear Aligned Lamellae Forming Heptablock Copolymer. <i>Macromolecules</i> , 2004 , 37, 8184-8187	5.5	34
202	Tuning PNIPAm self-assembly and thermoresponse: roles of hydrophobic end-groups and hydrophilic comonomer. <i>Polymer Chemistry</i> , 2019 , 10, 3469-3479	4.9	33
201	Engineering superior toughness in commercially viable block copolymer modified epoxy resin. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 189-204	2.6	33
200	Polyether Urethane Hydrolytic Stability after Exposure to Deoxygenated Water. <i>Macromolecules</i> , 2014 , 47, 5220-5226	5.5	33
199	Fractal Hole Growth in Strained Block Copolymer Films. <i>Physical Review Letters</i> , 1998 , 81, 1861-1864	7.4	33
198	Harmonic corrections to the mean-field phase diagram for block copolymers. <i>Journal of Chemical Physics</i> , 1994 , 100, 6813-6817	3.9	33
197	Surface-Induced Asymmetries during Spinodal Decomposition in Off-Critical Polymer Mixtures. <i>Macromolecules</i> , 1994 , 27, 6768-6776	5.5	33
196	Student Involvement in Improving the Culture of Safety in Academic Laboratories. <i>Journal of Chemical Education</i> , 2013 , 90, 1414-1417	2.4	32

195	Phase Transformations Involving Network Phases in ISO Triblock Copolymer/Homopolymer Blends. <i>Macromolecules</i> , 2005 , 38, 8775-8784	5.5	32
194	Effect of Surfactant on Unilamellar Polymeric Vesicles: Altered Membrane Properties and Stability in the Limit of Weak Surfactant Partitioning. <i>Langmuir</i> , 2002 , 18, 7299-7308	4	32
193	Sphere sizes in diblock copolymers: discrepancy between electron microscopy and small-angle scattering results. <i>Polymer</i> , 1982 , 23, 1222-1226	3.9	32
192	Maintaining Hydrophobic Drug Supersaturation in a Micelle Corona Reservoir. <i>Macromolecules</i> , 2018 , 51, 540-551	5.5	31
191	Toughened Isotactic Polypropylene: Phase Behavior and Mechanical Properties of Blends with Strategically Designed Random Copolymer Modifiers. <i>Macromolecules</i> , 2016 , 49, 6497-6506	5.5	31
190	Superlattice by charged block copolymer self-assembly. <i>Nature Communications</i> , 2019 , 10, 2108	17.4	30
189	Mechanically Robust and Recyclable Cross-Linked Fibers from Melt Blown Anthracene-Functionalized Commodity Polymers. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12863-12870	9.5	30
188	Design of Tunable Multicomponent Polymers as Modular Vehicles To Solubilize Highly Lipophilic Drugs. <i>Macromolecules</i> , 2014 , 47, 6554-6565	5.5	30
187	Membrane-stabilizing copolymers confer marked protection to dystrophic skeletal muscle in vivo. <i>Molecular Therapy - Methods and Clinical Development</i> , 2015 , 2, 15042	6.4	30
186	Bicontinuous polymeric microemulsions from polydisperse diblock copolymers. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 3726-37	3.4	30
185	Effect of Molecular Weight on Network Formation in Linear ABC Triblock Copolymers. <i>Macromolecules</i> , 2006 , 39, 2676-2682	5.5	30
184	Non-equilibrium phase behavior of diblock copolymer melts and binary blends in the intermediate segregation regime 1999 , 37, 2229-2238		30
183	Complex layered phases in asymmetric diblock copolymers. <i>Journal De Physique II</i> , 1994 , 4, 2161-2186		30
182	Spinodal decomposition in thin polymer films. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1994 , 98, 446-448		30
181	Membrane stabilization of biodegradable polymersomes. <i>Langmuir</i> , 2009 , 25, 4429-34	4	29
180	Influence of crystallinity on the morphology of poly(ethylene oxide) containing diblock copolymers. <i>Macromolecular Symposia</i> , 1997 , 117, 121-130	0.8	29
179	Structure and Mechanical Properties of an O70 (Fddd) Network-Forming Pentablock Terpolymer. <i>Macromolecules</i> , 2008 , 41, 5809-5817	5.5	29
178	Transverse Orientation of Lamellae and Cylinders by Solution Extrusion of a Pentablock Copolymer. <i>Macromolecules</i> , 2003 , 36, 5440-5442	5.5	29

177	Diffusion in Mixtures of Asymmetric Diblock Copolymers with Homopolymers. <i>Macromolecules</i> , 1999 , 32, 3353-3359	5.5	29
176	Polydispersity effects in poly(isoprene-b-styrene-b-ethylene oxide) triblock terpolymers. <i>Journal of Chemical Physics</i> , 2009 , 130, 234903	3.9	28
175	Lyotropic Phase Behavior of Poly(ethylene oxide)Poly(butadiene) Diblock Copolymers: Evolution of the Random Network Morphology. <i>Macromolecules</i> , 2008 , 41, 3305-3316	5.5	28
174	Fluctuations, Phase Transitions, and Latent Heat in Short Diblock Copolymers: Comparison of Experiment, Simulation, and Theory. <i>Macromolecules</i> , 2015 , 48, 2801-2811	5.5	27
173	Microstructure and performance of block copolymer modified epoxy coatings. <i>Progress in Organic Coatings</i> , 2014 , 77, 1145-1154	4.8	27
172	Polydispersity-Driven Transition from the Orthorhombic Fddd Network to Lamellae in Poly(isoprene-b-styrene-b-ethylene oxide) Triblock Terpolymers. <i>Macromolecules</i> , 2007 , 40, 7072-7074	5.5	27
171	Molecular Alignment in Polyethylene during Cold Drawing Using In-Situ SANS and Raman Spectroscopy. <i>Macromolecules</i> , 2017 , 50, 3627-3636	5.5	26
170	Modeling and rescue of defective blood-brain barrier function of induced brain microvascular endothelial cells from childhood cerebral adrenoleukodystrophy patients. <i>Fluids and Barriers of the CNS</i> , 2018 , 15, 9	7	26
169	Ultrasonically induced release from nanosized polymer vesicles. <i>Macromolecular Bioscience</i> , 2010 , 10, 546-54	5.5	26
168	Synthesis and Thermodynamic Properties of Poly(cyclohexylethylene-b-dimethylsiloxane-b-cyclohexylethylene). <i>Macromolecules</i> , 2007 , 40, 6638-6648	5.5	26
167	Phase Behavior of an ABC Triblock Copolymer Blended with A and C Homopolymers. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 12448-12460	3.4	26
166	Spinodal Decomposition in a Subsurface Layer of a Polymer Blend Film. <i>Macromolecules</i> , 1999 , 32, 3758-3765	3.65	26
165	Role of Chain Length in the Formation of Frank-Kasper Phases in Diblock Copolymers. <i>Physical Review Letters</i> , 2018 , 121, 208002	7.4	26
164	Polymer Day: Outreach Experiments for High School Students. <i>Journal of Chemical Education</i> , 2017 , 94, 1629-1638	2.4	25
163	Bundled postconditioning therapies improve hemodynamics and neurologic recovery after 17 min of untreated cardiac arrest. <i>Resuscitation</i> , 2015 , 87, 7-13	4	25
162	Vesicle Membrane Thickness in Aqueous Dispersions of Block Copolymer Blends. <i>Macromolecules</i> , 2008 , 41, 8289-8291	5.5	25
161	Polydispersity-Induced Stabilization of the Core-Shell Gyroid. <i>Macromolecules</i> , 2008 , 41, 6272-6275	5.5	25
160	Fluorine-Enriched Melt-Blown Fibers from Polymer Blends of Poly(butylene terephthalate) and a Fluorinated Multiblock Copolyester. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 754-61	9.5	25

- 159 Melt-Blown Cross-Linked Fibers from Thermally Reversible Diels-Alder Polymer Networks. *ACS Macro Letters*, **2018**, 7, 1339-1345 6.6 25
- 158 Gelation, Phase Separation, and Fibril Formation in Aqueous Hydroxypropylmethylcellulose Solutions. *Biomacromolecules*, **2018**, 19, 816-824 6.9 24
- 157 Phase Behavior of Diblock Copolymer/Homopolymer Ternary Blends: Congruent First-Order Lamellar Disorder Transition. *Macromolecules*, **2016**, 49, 7928-7944 5.5 24
- 156 Cavitation in Block Copolymer Modified Epoxy Revealed by In Situ Small-Angle X-Ray Scattering. *ACS Macro Letters*, **2013**, 2, 939-943 6.6 24
- 155 Linear Viscoelasticity of a Polymeric Bicontinuous Microemulsion. *Macromolecules*, **2002**, 35, 4210-4215 5.5 24
- 154 Molecular Weight Dependence of Methylcellulose Fibrillar Networks. *Macromolecules*, **2018**, 51, 7767-7775 24
- 153 Effect of Corona Block Length on the Structure and Chain Exchange Kinetics of Block Copolymer Micelles. *Macromolecules*, **2018**, 51, 3563-3571 5.5 23
- 152 Functionalization of Cadmium Selenide Quantum Dots with Poly(ethylene glycol): Ligand Exchange, Surface Coverage, and Dispersion Stability. *Langmuir*, **2017**, 33, 8239-8245 4 23
- 151 Adhesion of polymer vesicles. *Physical Review Letters*, **2005**, 95, 026101 7.4 23
- 150 Time-resolved small-angle x-ray scattering measurements of a polymer bicontinuous microemulsion structure factor under shear. *Physical Review E*, **2002**, 66, 041401 2.4 23
- 149 Transient Rheology of a Polymeric Bicontinuous Microemulsion. *Langmuir*, **2002**, 18, 9676-9686 4 23
- 148 Model ABC Triblock Copolymers and Blends near the Order Disorder Transition. *Macromolecules*, **2002**, 35, 3189-3197 5.5 23
- 147 Entropically driven phase separation of highly branched/linear polyolefin blends. *Journal of Polymer Science, Part B: Polymer Physics*, **2000**, 38, 2965-2975 2.6 23
- 146 Direct Observation of Nanostructures during Aqueous Dissolution of Polymer/Drug Particles. *Macromolecules*, **2017**, 50, 3143-3152 5.5 22
- 145 Quantifying Binding of Ethylene Oxide-Propylene Oxide Block Copolymers with Lipid Bilayers. *Langmuir*, **2017**, 33, 12624-12634 4 22
- 144 Symmetry breaking in particle-forming diblock polymer/homopolymer blends. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 16764-16769 11.5 22
- 143 Small-Angle X-ray Scattering of Concentration Dependent Structures in Block Copolymer Solutions. *Macromolecules*, **2014**, 47, 7978-7986 5.5 22
- 142 Ordering of Sphere Forming SISO Tetrablock Terpolymers on a Simple Hexagonal Lattice. *Macromolecules*, **2012**, 45, 256-265 5.5 22

141	Synthesis and Characterization of Elastomeric Heptablock Terpolymers Structured by Crystallization. <i>Macromolecules</i> , 2010 , 43, 5295-5305	5.5	22
140	Lithium Perchlorate-Doped Poly(styrene-b-ethylene oxide-b-styrene) Lamellae-Forming Triblock Copolymer as High Capacitance, Smooth, Thin Film Dielectric. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3903-3908	3.8	22
139	ABA triblock copolymers with a ring-opening metathesis polymerization/macromolecular chain-transfer agent approach. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 361-373	2.5	22
138	Intracoronary Poloxamer 188 Prevents Reperfusion Injury in a Porcine Model of ST-Segment Elevation Myocardial Infarction. <i>JACC Basic To Translational Science</i> , 2016 , 1, 224-234	8.7	22
137	Inverted Phases Induced by Chain Architecture in ABAC Tetrablock Terpolymers. <i>Macromolecules</i> , 2010 , 43, 4449-4452	5.5	21
136	Structure and Properties of Bicontinuous Microemulsions from Salt-Doped Ternary Polymer Blends. <i>Macromolecules</i> , 2019 , 52, 9693-9702	5.5	21
135	Structure and Mechanical Behavior of Elastomeric Multiblock Terpolymers Containing Glassy, Rubbery, and Semicrystalline Blocks. <i>Macromolecules</i> , 2011 , 44, 8143-8153	5.5	20
134	Synthetic cell elements from block copolymers [hydrodynamic aspects. <i>Comptes Rendus Physique</i> , 2003 , 4, 251-258	1.4	20
133	Effect of Poly(ethylene glycol) Grafting Density on Methylcellulose Fibril Formation. <i>Macromolecules</i> , 2018 , 51, 9413-9421	5.5	20
132	Nanofibers from water-extractable melt-blown immiscible polymer blends. <i>Polymer</i> , 2016 , 101, 269-273	3.9	19
131	Block Copolymer Micelle Toughened Isotactic Polypropylene. <i>Macromolecules</i> , 2017 , 50, 6421-6432	5.5	19
130	Control of Hierarchical Order in Crystalline Composites of Diblock Copolymers and a Molecular Chromophore. <i>Chemistry of Materials</i> , 2000 , 12, 236-249	9.6	19
129	Muscle membrane integrity in Duchenne muscular dystrophy: recent advances in copolymer-based muscle membrane stabilizers. <i>Skeletal Muscle</i> , 2018 , 8, 31	5.1	19
128	Chemical End Group Modified Diblock Copolymers Elucidate Anchor and Chain Mechanism of Membrane Stabilization. <i>Molecular Pharmaceutics</i> , 2017 , 14, 2333-2339	5.6	18
127	Extensional Flow Behavior of Methylcellulose Solutions Containing Fibrils. <i>ACS Macro Letters</i> , 2018 , 7, 347-352	6.6	18
126	A critical gel fluid with high extensibility: The rheology of chewing gum. <i>Journal of Rheology</i> , 2014 , 58, 821-838	4.1	18
125	High Strength Polyolefin Block Copolymers. <i>Macromolecules</i> , 2004 , 37, 5847-5850	5.5	18
124	Morphological Consequences of Frustration in ABC Triblock Polymers. <i>Macromolecules</i> , 2017 , 50, 446-453	5.5	17

123	Commensurability and finite size effects in lattice simulations of diblock copolymers. <i>Soft Matter</i> , 2015 , 11, 4862-7	3.6	17
122	Mechanical Consequences of Molecular Composition on Failure in Polyolefin Composites Containing Glassy, Elastomeric, and Semicrystalline Components. <i>Macromolecules</i> , 2008 , 41, 1341-1351	5.5	17
121	Synthesis of Monodisperse β -Hydroxypoly(styrene) in Hydrocarbon Media Using a Functional Organolithium. <i>Macromolecules</i> , 2007 , 40, 760-762	5.5	17
120	Critical dynamics of binary polymer mixtures. <i>Journal of Chemical Physics</i> , 1986 , 85, 633-634	3.9	17
119	Polymer Nanogels as Reservoirs To Inhibit Hydrophobic Drug Crystallization. <i>ACS Nano</i> , 2019 , 13, 1232-1243	2.3	17
118	Bottlebrush Polymer Excipients Enhance Drug Solubility: Influence of End-Group Hydrophilicity and Thermoresponsiveness.. <i>ACS Macro Letters</i> , 2021 , 10, 375-381	6.6	17
117	Design and Characterization of a PVLA-PEG-PVLA Thermosensitive and Biodegradable Hydrogel. <i>ACS Macro Letters</i> , 2017 , 6, 1134-1139	6.6	16
116	All-Atom Molecular Dynamics-Based Analysis of Membrane-Stabilizing Copolymer Interactions with Lipid Bilayers Probed under Constant Surface Tensions. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 10657-10664	2.4	16
115	Rheology of polymer multilayers: Slip in shear, hardening in extension. <i>Journal of Rheology</i> , 2019 , 63, 751-761	4.1	16
114	Tuning surface properties of poly(butylene terephthalate) melt blown fibers by alkaline hydrolysis and fluorination. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11640-8	9.5	16
113	Fluctuation Effects in Symmetric Diblock Copolymer/Homopolymer Ternary Mixtures near the Lamellar Disorder Transition. <i>ACS Macro Letters</i> , 2014 , 3, 1041-1045	6.6	16
112	Solvent Selective Hydrogen/Deuterium Exchange on Saturated Polyolefins. <i>Macromolecules</i> , 2012 , 45, 7778-7782	5.5	16
111	Large amplitude oscillatory shear of block copolymer spheres on a body-centered cubic lattice: are micelles like metals?. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 5840-8	3.4	16
110	SANS Determination of Chain Conformation in Perpendicular-Aligned Undecablock Copolymer Lamellae. <i>Macromolecules</i> , 2006 , 39, 294-299	5.5	16
109	Compatibilization of iPP/HDPE Blends with PE-g-iPP Graft Copolymers. <i>ACS Macro Letters</i> , 2020 , 9, 11616-11666	1.666	16
108	Rheological Evidence of Composition Fluctuations in an Unentangled Diblock Copolymer Melt near the Order-Disorder Transition.. <i>ACS Macro Letters</i> , 2013 , 2, 496-500	6.6	15
107	Effect of block number on multiblock copolymer lamellae alignment under oscillatory shear. <i>Journal of Rheology</i> , 2005 , 49, 1231-1252	4.1	15
106	Critical phenomena in binary and ternary polymer blends. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 314, 411-418	3.3	15

105	Straightforward synthesis of model polystyrene-block-poly(vinyl alcohol) diblock polymers. <i>Polymer Chemistry</i> , 2018 , 9, 4243-4250	4.9	14
104	Accelerating self-consistent field theory of block polymers in a variable unit cell. <i>Journal of Chemical Physics</i> , 2017 , 146, 244902	3.9	14
103	The O52 network by molecular design: CECD tetrablock terpolymers. <i>Soft Matter</i> , 2009 , 5, 1587	3.6	14
102	Shear flow behavior of a dynamically symmetric polymeric bicontinuous microemulsion. <i>Journal of Rheology</i> , 2007 , 51, 1027-1046	4.1	14
101	Extrusion of triblock and pentablock copolymers: Evolution of bulk and surface morphology. <i>Journal of Rheology</i> , 2005 , 49, 197-214	4.1	14
100	Role of Chain Architecture in the Adhesion of Block Copolymers. <i>Macromolecules</i> , 2001 , 34, 1323-1327	5.5	14
99	Impact of Architectural Asymmetry on Frank-Kasper Phase Formation in Block Polymer Melts. <i>ACS Nano</i> , 2020 , 14, 11463-11472	16.7	14
98	Formation of a C15 Laves Phase with a Giant Unit Cell in Salt-Doped A/B/AB Ternary Polymer Blends. <i>ACS Nano</i> , 2020 , 14, 13754-13764	16.7	14
97	Mechanical and Structural Consequences of Associative Dynamic Cross-Linking in Acrylic Diblock Copolymers. <i>Macromolecules</i> , 2021 , 54, 3972-3986	5.5	14
96	Physical Aging of Polylactide-Based Graft Block Polymers. <i>Macromolecules</i> , 2019 , 52, 8878-8894	5.5	14
95	PEO-PPO Diblock Copolymers Protect Myoblasts from Hypo-Osmotic Stress In Vitro Dependent on Copolymer Size, Composition, and Architecture. <i>Biomacromolecules</i> , 2017 , 18, 2090-2101	6.9	13
94	The OrderDisorder Transition in Graft Block Copolymers. <i>Macromolecules</i> , 2018 , 51, 232-241	5.5	13
93	Synthesis of Tri- and Multiblock Polymers with Asymmetric Poly(ethylene oxide) End Blocks. <i>ACS Macro Letters</i> , 2012 , 1, 768-771	6.6	13
92	Phase behavior of polyisoprene-poly(butylene oxide) and poly(ethylene-alt-propylene)-poly(butylene oxide) block copolymers. <i>Soft Matter</i> , 2010 , 6, 1281	3.6	13
91	Control of the confined and unconfined crystallization in glassy-crystalline poly(vinylcyclohexane)-b-poly(ethylene)-b-poly-(vinylcyclohexane) triblock copolymer in solution. <i>Polymer</i> , 2006 , 47, 1460-1464	3.9	13
90	Development of discrete nanopores I: Tension of polypropylene/ polyethylene copolymer blends. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 3642-3650	2.9	13
89	Applications of Fourier-synthesis methods to the analysis of specular reflectivity. <i>Journal of Applied Crystallography</i> , 1993 , 26, 650-659	3.8	13
88	Influence of Added Salt on Chain Conformations in Poly(ethylene oxide) Melts: SANS Analysis with Complications. <i>Macromolecules</i> , 2020 , 53, 7141-7149	5.5	13

87	Methyl cellulose solutions and gels: fibril formation and gelation properties. <i>Progress in Polymer Science</i> , 2021 , 112, 101324	29.6	13
86	Predicting the phase behavior of ABAC tetrablock terpolymers: Sensitivity to Flory-Huggins interaction parameters. <i>Polymer</i> , 2018 , 154, 305-314	3.9	13
85	Surface Plasmon Resonance Study of the Binding of PEO-PPO-PEO Triblock Copolymer and PEO Homopolymer to Supported Lipid Bilayers. <i>Langmuir</i> , 2018 , 34, 6703-6712	4	13
84	Cardiac Muscle Membrane Stabilization in Myocardial Reperfusion Injury. <i>JACC Basic To Translational Science</i> , 2019 , 4, 275-287	8.7	12
83	Bicontinuous Microemulsions in Partially Charged Ternary Polymer Blends. <i>ACS Macro Letters</i> , 2019 , 8, 1166-1171	6.6	12
82	Rapid conformational fluctuations in a model of methylcellulose. <i>Physical Review Materials</i> , 2017 , 1,	3.2	12
81	Internal Structure of Methylcellulose Fibrils. <i>Macromolecules</i> , 2020 , 53, 398-405	5.5	12
80	Synthetic strategies for the generation of ABCA' type asymmetric tetrablock terpolymers. <i>Polymer Chemistry</i> , 2014 , 5, 5551	4.9	11
79	Star Polymer Synthesis Using Hexafluoropropylene Oxide as an Efficient Multifunctional Coupling Agent. <i>Macromolecules</i> , 2004 , 37, 6355-6361	5.5	11
78	Quasicrystals and Their Approximants in a Crystalline-Amorphous Diblock Copolymer. <i>Macromolecules</i> , 2021 , 54, 2647-2660	5.5	11
77	Impact of molecular weight and comonomer content on catalytic hydrogen-deuterium exchange in polyolefins. <i>Polymer</i> , 2016 , 102, 99-105	3.9	11
76	Effects of Segment Length Asymmetry in Ternary Diblock Co-polymer-Homopolymer Mixtures. <i>Macromolecules</i> , 2019 , 52, 4091-4102	5.5	10
75	Effect of Branching and Molecular Weight on Heterogeneous Catalytic Deuterium Exchange in Polyolefins. <i>Macromolecules</i> , 2017 , 50, 6849-6860	5.5	10
74	Influence of Composition Fluctuations on the Linear Viscoelastic Properties of Symmetric Diblock Copolymers near the Order-Disorder Transition. <i>ACS Macro Letters</i> , 2015 , 4, 260-265	6.6	10
73	Hierarchically structured bicontinuous polymeric microemulsions. <i>Soft Matter</i> , 2010 , 6, 2751	3.6	10
72	Dynamic scaling in spinodally decomposing isotopic polymer mixtures. <i>Macromolecules</i> , 1993 , 26, 3448-3454	3.5	10
71	Topology of forward scattering of neutrons from imperfect multilayers. <i>Physical Review B</i> , 1994 , 50, 9565-9568	3.5	10
70	Effect of Solvent Selectivity on Chain Exchange Kinetics in Block Copolymer Micelles. <i>Macromolecules</i> , 2020 , 53, 417-426	5.5	10

69	Influence of rheology on renewable pressure-sensitive adhesives from a triblock copolymer. <i>Journal of Rheology</i> , 2018 , 62, 161-170	4.1	10
68	Thermodynamic characteristics of poly(cyclohexylethylene-b-ethylene-co-ethylethylene) block copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 566-574	2.6	9
67	Bimodal Nanofiber and Microfiber Nonwovens by Melt-Blowing Immiscible Ternary Polymer Blends. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 5238-5246	3.9	9
66	Adhesion Strength of Block Copolymer Toughened Epoxy on Aluminum. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 464-474	4.3	9
65	Network Model of the Disordered Phase in Symmetric Diblock Copolymer Melts. <i>Physical Review Letters</i> , 2018 , 121, 127802	7.4	9
64	Determination of the Lamellae-to-Disorder Heat of Transition in a Short Diblock Copolymer by Relaxation Calorimetry. <i>Macromolecules</i> , 2015 , 48, 4733-4741	5.5	8
63	Path-dependent morphologies in oil/water/diblock copolymer mixtures. <i>Langmuir</i> , 2010 , 26, 1707-15	4	8
62	Barrier films made with various lamellar block copolymers. <i>Journal of Membrane Science</i> , 2006 , 270, 13-24	4.6	8
61	Investigation of crystallization of PVCH-PE-PVCH triblock copolymer in supercritical carbon dioxide. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 2584-2589	2.9	8
60	Synthesis and Thermal Properties of Hydrogenated Poly(styrene-co-1,1-diphenylethylene) Copolymers. <i>Macromolecules</i> , 2003 , 36, 5432-5434	5.5	8
59	When convergent syntheses of graft block copolymers diverge: The treachery of chemical images. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 3097-3104	2.5	7
58	Influence of Cholesterol and Bilayer Curvature on the Interaction of PPO-PEO Block Copolymers with Liposomes. <i>Langmuir</i> , 2019 , 35, 7231-7241	4	7
57	Hierarchical microphase separation in bicontinuous ternary polymer blends. <i>Soft Matter</i> , 2012 , 8, 3429	3.6	7
56	Radical-cured block copolymer-modified thermosets. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011 , 49, 540-550	2.6	7
55	Nanoscale mixing of soft solids. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1722-5	16.4	7
54	Comment on "Equilibrium properties of a Diblock copolymer Lamellar phase confined between flat plates". <i>Physical Review Letters</i> , 1995 , 75, 976	7.4	7
53	Properties of Chemically Cross-Linked Methylcellulose Gels. <i>Macromolecules</i> , 2019 , 52, 7740-7748	5.5	6
52	Almost fooled again: new insights into cesium dodecyl sulfate micelle structures. <i>Langmuir</i> , 2014 , 30, 12743-7	4	6

51	Using the rotational masking concept to enhance substrate inhibited reaction rates: controlled pore supports for enzyme immobilization. <i>Enzyme and Microbial Technology</i> , 1985 , 7, 266-274	3.8	6
50	Hydrogenolysis of Linear Low-Density Polyethylene during Heterogeneous Catalytic Hydrogen/Deuterium Exchange. <i>Macromolecules</i> , 2020 , 53, 6043-6055	5.5	6
49	Complex Phase Behavior in Particle-Forming AB/AB ₂ Diblock Copolymer Blends with Variable Core Block Lengths. <i>Macromolecules</i> , 2021 , 54, 7088-7101	5.5	6
48	Polymersomes: A New Platform for Drug Targeting 2002 , 459-471		6
47	Investigation of Micromechanical Behavior and Voiding of Polyethylene Terephthalate/Polyethylene-stat-methyl Acrylate Blends during Tensile Deformation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 6402-6412	3.9	5
46	Order and Disorder in ABCA ₂ Tetrablock Terpolymers. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 10266-10275	3.4	5
45	Crazing Mechanism and Physical Aging of Poly(lactide) Toughened with Poly(ethylene oxide)-block-poly(butylene oxide) Diblock Copolymers. <i>Macromolecules</i> , 2020 , 53, 10163-10178	5.5	5
44	Influence of the Headgroup on the Interaction of Poly(ethylene oxide)-Poly(propylene oxide) Block Copolymers with Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 2417-2424	3.4	5
43	Revisiting the Anionic Polymerization of Methyl Methacrylate. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1700282	2.6	5
42	Structure of poly(styrene- <i>b</i> -ethylene- <i>alt</i> -propylene) diblock copolymer micelles in binary solvent mixtures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 22-31	2.6	5
41	Shear alignment of a swollen lamellar phase in a ternary polymer blend. <i>Journal of Rheology</i> , 2005 , 49, 1395-1408	4.1	5
40	Influence of long-chain branching on the miscibility of poly(ethylene- <i>r</i> -ethylene) blends with different microstructures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002 , 40, 466-477	2.6	5
39	Isotactic polypropylene-compatible block copolymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995 , 33, 1423-1427	2.6	5
38	Phase Behavior of Diblock Copolymer/Homopolymer Ternary Blends with a Compositionally Asymmetric Diblock Copolymer. <i>Macromolecules</i> , 2021 , 54, 460-472	5.5	5
37	Step-Growth Polyesters with Biobased (R)-1,3-Butanediol. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 15598-15613	3.9	5
36	Dynamics of a Supercooled Disordered Sphere-Forming Diblock Copolymer as Determined by X-ray Photon Correlation and Dynamic Mechanical Spectroscopies. <i>ACS Macro Letters</i> , 2018 , 7, 1486-1491	6.6	5
35	Porous Fibers Templated by Melt Blowing Cocontinuous Immiscible Polymer Blends. <i>ACS Macro Letters</i> , 2021 , 10, 1196-1203	6.6	5
34	Evaluating Large-Scale STEM Outreach Efficacy with a Consistent Theme: Thermodynamics for Elementary School Students. <i>ACS Omega</i> , 2019 , 4, 2661-2668	3.9	4

33	Spatial Distribution of PEO-PPO-PEO Block Copolymer and PEO Homopolymer in Lipid Bilayers. <i>Langmuir</i> , 2020 , 36, 3393-3403	4	4
32	Hydrogenated poly(styrene-co- β -methylstyrene) polymers: A new class of high glass-transition-temperature polyolefins. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 725-735	2.6	4
31	Reevaluation of Poly(ethylene-propylene)-Polydimethylsiloxane Phase Behavior Uncovers Topological Close-Packing and Epitaxial Quasicrystal Growth. <i>ACS Nano</i> , 2021 , 15, 9453-9468	16.7	4
30	Regioregular Polymers from Biobased (R)-1,3-Butylene Carbonate. <i>Macromolecules</i> , 2021 , 54, 5974-5984	5.5	4
29	Rouse-Bueche theory and the calculation of the monomeric friction coefficient in a filled system. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 1437-1442	2.6	4
28	Development of discrete nanopores. II. Comparison between layered films and blends of polyolefins. <i>Journal of Applied Polymer Science</i> , 2005 , 95, 708-718	2.9	3
27	Grain Growth and Coarsening Dynamics in a Compositionally Asymmetric Block Copolymer Revealed by X-ray Photon Correlation Spectroscopy. <i>Macromolecules</i> , 2020 , 53, 8233-8243	5.5	3
26	Effect of Ion Concentration on the Formation of Bicontinuous Microemulsions in Partially Charged Ternary Polymer Blends. <i>Macromolecules</i> , 2019 , 52, 9416-9424	5.5	3
25	Polyolefin graft copolymers through a ring-opening metathesis grafting through approach. <i>Polymer Chemistry</i> , 2021 , 12, 2075-2083	4.9	3
24	A new framework for X-ray photon correlation spectroscopy analysis from polycrystalline materials. <i>Review of Scientific Instruments</i> , 2018 , 89, 123902	1.7	3
23	Alternating Gyroid in Block Polymer Blends.. <i>ACS Macro Letters</i> , 2022 , 11, 643-650	6.6	3
22	Rheological characterization and thermal modeling of polyolefins for process design and tailored interfaces 2017 ,		2
21	Mechanical properties of glass continuous poly(cyclohexylethylene) block copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 706-717	2.6	2
20	Dynamic light scattering from ternary polymer blends: critical behavior and bicontinuous microemulsions. <i>Macromolecular Symposia</i> , 2000 , 149, 107-112	0.8	2
19	Block Copolymer Based Pressure Sensitive Adhesives Modified with PPO for Increased Service Temperatures 2000 , 73, 65-85		2
18	Surface-Directed Spinodal Decomposition. <i>Physical Review Letters</i> , 1991 , 66, 3087-3087	7.4	2
17	Microfluidic filament thinning of aqueous, fibrillar methylcellulose solutions. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	2
16	Effects of a Layered Morphology on Drip Suppression in Burning Polymers. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1664-1674	4.3	2

15	Influence of Charge Fraction on the Phase Behavior of Symmetric Single-Ion Conducting Diblock Copolymers.. <i>ACS Macro Letters</i> , 2021 , 10, 1035-1040	6.6	2
14	Block Copolymer and Nanosilica-Modified Epoxy Nanocomposites. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 4156-4167	4.3	2
13	Semicrystalline blends of polyethylene and isotactic polypropylene: Improving mechanical performance by enhancing the interfacial structure 2000 , 38, 108		2
12	Neal R. Amundson, a bold and brilliant leader of chemical engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 7285	11.5	1
11	Impact of Macromonomer Molar Mass and Feed Composition on Branch Distributions in Model Graft Copolymerizations.. <i>ACS Macro Letters</i> , 2021 , 10, 1622-1628	6.6	1
10	Salt-Dependent Structure in Methylcellulose Fibrillar Gels. <i>Macromolecules</i> , 2021 , 54, 2090-2100	5.5	1
9	Phase Behavior of Salt-Doped A/B/AB Ternary Polymer Blends: The Role of Homopolymer Distribution. <i>Macromolecules</i> , 2021 , 54, 6990-7002	5.5	1
8	Open-source platform for block polymer formulation design using particle swarm optimization. <i>European Physical Journal E</i> , 2021 , 44, 115	1.5	1
7	Microstructure of triblock copolymers in asphalt oligomers 1997 , 35, 2857		1
6	Synthesis and Micellization of Bottlebrush Poloxamers.. <i>ACS Macro Letters</i> , 2022 , 11, 460-467	6.6	1
5	Concentration Threshold for Membrane Protection by PEOBPO Block Copolymers with Variable Molecular Architectures. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 3259-3269	4.3	0
4	Bates, Wiltzius, and Fredrickson reply. <i>Physical Review Letters</i> , 1994 , 72, 2305	7.4	
3	Temperature Dependence of Chain Conformations and Fibril Formation in Solutions of Poly(N-isopropylacrylamide)-Grafted Methylcellulose. <i>Macromolecules</i> , 2022 , 55, 550-558	5.5	
2	Neutron Research Community. <i>Science</i> , 1996 , 273, 1477-1480	33.3	
1	Membrane-Stabilizing Copolymers Confer Protection to Dystrophic Skeletal Muscle in vitro and in vivo. <i>FASEB Journal</i> , 2015 , 29, 1039.3	0.9	