

# Frank S Bates

## List of Publications by Year in Descending Order

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

446  
papers

43,660  
citations

100  
h-index

197  
g-index

464  
ext. papers

46,840  
ext. citations

6.4  
avg, IF

7.62  
L-index

#	Paper	IF	Citations
446	Temperature Dependence of Chain Conformations and Fibril Formation in Solutions of Poly(N-isopropylacrylamide)-Grafted Methylcellulose. <i>Macromolecules</i> , <b>2022</b> , 55, 550-558	5.5	
445	Synthesis and Micellization of Bottlebrush Poloxamers.. <i>ACS Macro Letters</i> , <b>2022</b> , 11, 460-467	6.6	1
444	Alternating Gyroid in Block Polymer Blends.. <i>ACS Macro Letters</i> , <b>2022</b> , 11, 643-650	6.6	3
443	Concentration Threshold for Membrane Protection by PEOBPO Block Copolymers with Variable Molecular Architectures. <i>ACS Applied Polymer Materials</i> , <b>2022</b> , 4, 3259-3269	4.3	0
442	Impact of Macromonomer Molar Mass and Feed Composition on Branch Distributions in Model Graft Copolymerizations.. <i>ACS Macro Letters</i> , <b>2021</b> , 10, 1622-1628	6.6	1
441	Phase Behavior of Diblock Copolymer/Homopolymer Ternary Blends with a Compositionally Asymmetric Diblock Copolymer. <i>Macromolecules</i> , <b>2021</b> , 54, 460-472	5.5	5
440	Quasicrystals and Their Approximants in a Crystalline/Amorphous Diblock Copolymer. <i>Macromolecules</i> , <b>2021</b> , 54, 2647-2660	5.5	11
439	Mechanical and Structural Consequences of Associative Dynamic Cross-Linking in Acrylic Diblock Copolymers. <i>Macromolecules</i> , <b>2021</b> , 54, 3972-3986	5.5	14
438	Reevaluation of Poly(ethylene-propylene)-Polydimethylsiloxane Phase Behavior Uncovers Topological Close-Packing and Epitaxial Quasicrystal Growth. <i>ACS Nano</i> , <b>2021</b> , 15, 9453-9468	16.7	4
437	Regioregular Polymers from Biobased (R)-1,3-Butylene Carbonate. <i>Macromolecules</i> , <b>2021</b> , 54, 5974-5984	5.5	4
436	Methyl cellulose solutions and gels: fibril formation and gelation properties. <i>Progress in Polymer Science</i> , <b>2021</b> , 112, 101324	29.6	13
435	Polyolefin graft copolymers through a ring-opening metathesis grafting through approach. <i>Polymer Chemistry</i> , <b>2021</b> , 12, 2075-2083	4.9	3
434	Bottlebrush Polymer Excipients Enhance Drug Solubility: Influence of End-Group Hydrophilicity and Thermoresponsiveness.. <i>ACS Macro Letters</i> , <b>2021</b> , 10, 375-381	6.6	17
433	Effects of a Layered Morphology on Drip Suppression in Burning Polymers. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 1664-1674	4.3	2
432	Salt-Dependent Structure in Methylcellulose Fibrillar Gels. <i>Macromolecules</i> , <b>2021</b> , 54, 2090-2100	5.5	1
431	Complex Phase Behavior in Particle-Forming AB/AB <sub>2</sub> Diblock Copolymer Blends with Variable Core Block Lengths. <i>Macromolecules</i> , <b>2021</b> , 54, 7088-7101	5.5	6
430	Influence of Charge Fraction on the Phase Behavior of Symmetric Single-Ion Conducting Diblock Copolymers.. <i>ACS Macro Letters</i> , <b>2021</b> , 10, 1035-1040	6.6	2

429	Block Copolymer and Nanosilica-Modified Epoxy Nanocomposites. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 4156-4167	4.3	2
428	Phase Behavior of Salt-Doped A/B/AB Ternary Polymer Blends: The Role of Homopolymer Distribution. <i>Macromolecules</i> , <b>2021</b> , 54, 6990-7002	5.5	1
427	Porous Fibers Templated by Melt Blowing Cocontinuous Immiscible Polymer Blends.. <i>ACS Macro Letters</i> , <b>2021</b> , 10, 1196-1203	6.6	5
426	Open-source platform for block polymer formulation design using particle swarm optimization. <i>European Physical Journal E</i> , <b>2021</b> , 44, 115	1.5	1
425	Order and Disorder in ABCA' Tetrablock Terpolymers. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 10266-10275	5.4	5
424	Crazing Mechanism and Physical Aging of Poly(lactide) Toughened with Poly(ethylene oxide)-block-poly(butylene oxide) Diblock Copolymers. <i>Macromolecules</i> , <b>2020</b> , 53, 10163-10178	5.5	5
423	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> , <b>2020</b> , 124, 2417-2424	3.4	5
422	Emergence of a C15 Laves Phase in Diblock Polymer/Homopolymer Blends. <i>ACS Macro Letters</i> , <b>2020</b> , 9, 576-582	6.6	34
421	Symmetry breaking in particle-forming diblock polymer/homopolymer blends. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 16764-16769	11.5	22
420	A15, $\Gamma$ and a Quasicrystal: Access to Complex Particle Packings via Bidisperse Diblock Copolymer Blends. <i>ACS Macro Letters</i> , <b>2020</b> , 9, 197-203	6.6	39
419	Spatial Distribution of PEO-PPO-PEO Block Copolymer and PEO Homopolymer in Lipid Bilayers. <i>Langmuir</i> , <b>2020</b> , 36, 3393-3403	4	4
418	Microfluidic filament thinning of aqueous, fibrillar methylcellulose solutions. <i>Physical Review Fluids</i> , <b>2020</b> , 5,	2.8	2
417	Grain Growth and Coarsening Dynamics in a Compositionally Asymmetric Block Copolymer Revealed by X-ray Photon Correlation Spectroscopy. <i>Macromolecules</i> , <b>2020</b> , 53, 8233-8243	5.5	3
416	Bimodal Nanofiber and Microfiber Nonwovens by Melt-Blowing Immiscible Ternary Polymer Blends. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 5238-5246	3.9	9
415	Internal Structure of Methylcellulose Fibrils. <i>Macromolecules</i> , <b>2020</b> , 53, 398-405	5.5	12
414	Adhesion Strength of Block Copolymer Toughened Epoxy on Aluminum. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 464-474	4.3	9
413	Effect of Solvent Selectivity on Chain Exchange Kinetics in Block Copolymer Micelles. <i>Macromolecules</i> , <b>2020</b> , 53, 417-426	5.5	10
412	Hydrogenolysis of Linear Low-Density Polyethylene during Heterogeneous Catalytic Hydrogen/Deuterium Exchange. <i>Macromolecules</i> , <b>2020</b> , 53, 6043-6055	5.5	6

411	Compatibilization of iPP/HDPE Blends with PE-g-iPP Graft Copolymers. <i>ACS Macro Letters</i> , <b>2020</b> , 9, 1161-1166	16.66	16
410	Influence of Added Salt on Chain Conformations in Poly(ethylene oxide) Melts: SANS Analysis with Complications. <i>Macromolecules</i> , <b>2020</b> , 53, 7141-7149	5.5	13
409	Impact of Architectural Asymmetry on Frank-Kasper Phase Formation in Block Polymer Melts. <i>ACS Nano</i> , <b>2020</b> , 14, 11463-11472	16.7	14
408	Step-Growth Polyesters with Biobased (R)-1,3-Butanediol. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 15598-15613	3.9	5
407	Formation of a C15 Laves Phase with a Giant Unit Cell in Salt-Doped A/B/AB Ternary Polymer Blends. <i>ACS Nano</i> , <b>2020</b> , 14, 13754-13764	16.7	14
406	Effects of Segment Length Asymmetry in Ternary Diblock Co-polymer/Block Copolymer Mixtures. <i>Macromolecules</i> , <b>2019</b> , 52, 4091-4102	5.5	10
405	Tuning PNIPAm self-assembly and thermoresponse: roles of hydrophobic end-groups and hydrophilic comonomer. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 3469-3479	4.9	33
404	Influence of Cholesterol and Bilayer Curvature on the Interaction of PPO-PEO Block Copolymers with Liposomes. <i>Langmuir</i> , <b>2019</b> , 35, 7231-7241	4	7
403	Superlattice by charged block copolymer self-assembly. <i>Nature Communications</i> , <b>2019</b> , 10, 2108	17.4	30
402	Cardiac Muscle Membrane Stabilization in Myocardial Reperfusion Injury. <i>JACC Basic To Translational Science</i> , <b>2019</b> , 4, 275-287	8.7	12
401	Mechanically Robust and Recyclable Cross-Linked Fibers from Melt Blown Anthracene-Functionalized Commodity Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 12863-12870	9.5	20
400	Investigation of Micromechanical Behavior and Voiding of Polyethylene Terephthalate/Polyethylene-stat-methyl Acrylate Blends during Tensile Deformation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 6402-6412	3.9	5
399	Evaluating Large-Scale STEM Outreach Efficacy with a Consistent Theme: Thermodynamics for Elementary School Students. <i>ACS Omega</i> , <b>2019</b> , 4, 2661-2668	3.9	4
398	Rheology of polymer multilayers: Slip in shear, hardening in extension. <i>Journal of Rheology</i> , <b>2019</b> , 63, 751-761	4.1	16
397	Bicontinuous Microemulsions in Partially Charged Ternary Polymer Blends. <i>ACS Macro Letters</i> , <b>2019</b> , 8, 1166-1171	6.6	12
396	Properties of Chemically Cross-Linked Methylcellulose Gels. <i>Macromolecules</i> , <b>2019</b> , 52, 7740-7748	5.5	6
395	Physical Aging of Polylactide-Based Graft Block Polymers. <i>Macromolecules</i> , <b>2019</b> , 52, 8878-8894	5.5	14
394	Effect of Ion Concentration on the Formation of Bicontinuous Microemulsions in Partially Charged Ternary Polymer Blends. <i>Macromolecules</i> , <b>2019</b> , 52, 9416-9424	5.5	3

393	Structure and Properties of Bicontinuous Microemulsions from Salt-Doped Ternary Polymer Blends. <i>Macromolecules</i> , <b>2019</b> , 52, 9693-9702	5.5	21
392	Polymer Nanogels as Reservoirs To Inhibit Hydrophobic Drug Crystallization. <i>ACS Nano</i> , <b>2019</b> , 13, 1232-1243	6.3	17
391	Extensional Flow Behavior of Methylcellulose Solutions Containing Fibrils. <i>ACS Macro Letters</i> , <b>2018</b> , 7, 347-352	6.6	18
390	Gelation, Phase Separation, and Fibril Formation in Aqueous Hydroxypropylmethylcellulose Solutions. <i>Biomacromolecules</i> , <b>2018</b> , 19, 816-824	6.9	24
389	Consequences of Grafting Density on the Linear Viscoelastic Behavior of Graft Polymers. <i>ACS Macro Letters</i> , <b>2018</b> , 7, 525-530	6.6	67
388	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> , <b>2018</b> , 115, 847-854	11.5	61
387	The OrderDisorder Transition in Graft Block Copolymers. <i>Macromolecules</i> , <b>2018</b> , 51, 232-241	5.5	13
386	Advances in Polymer Design for Enhancing Oral Drug Solubility and Delivery. <i>Bioconjugate Chemistry</i> , <b>2018</b> , 29, 939-952	6.3	58
385	Maintaining Hydrophobic Drug Supersaturation in a Micelle Corona Reservoir. <i>Macromolecules</i> , <b>2018</b> , 51, 540-551	5.5	31
384	Effect of Corona Block Length on the Structure and Chain Exchange Kinetics of Block Copolymer Micelles. <i>Macromolecules</i> , <b>2018</b> , 51, 3563-3571	5.5	23
383	Role of Crystallization on Polyolefin Interfaces: An Improved Outlook for Polyolefin Blends. <i>Macromolecules</i> , <b>2018</b> , 51, 2506-2516	5.5	36
382	Revisiting the Anionic Polymerization of Methyl Ethacrylate. <i>Macromolecular Chemistry and Physics</i> , <b>2018</b> , 219, 1700282	2.6	5
381	Straightforward synthesis of model polystyrene-block-poly(vinyl alcohol) diblock polymers. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 4243-4250	4.9	14
380	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> , <b>2018</b> , 15, 9	7	26
379	Influence of rheology on renewable pressure-sensitive adhesives from a triblock copolymer. <i>Journal of Rheology</i> , <b>2018</b> , 62, 161-170	4.1	10
378	Role of Chain Length in the Formation of Frank-Kasper Phases in Diblock Copolymers. <i>Physical Review Letters</i> , <b>2018</b> , 121, 208002	7.4	26
377	Effect of Poly(ethylene glycol) Grafting Density on Methylcellulose Fibril Formation. <i>Macromolecules</i> , <b>2018</b> , 51, 9413-9421	5.5	20
376	A new framework for X-ray photon correlation spectroscopy analysis from polycrystalline materials. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 123902	1.7	3

375	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> , <b>2018</b> , 7, 1486-1491	6.6	5
374	Molecular Weight Dependence of Methylcellulose Fibrillar Networks. <i>Macromolecules</i> , <b>2018</b> , 51, 7767-7775	5.5	24
373	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> , <b>2018</b> , 115, 10233-10238	11.5	69
372	Muscle membrane integrity in Duchenne muscular dystrophy: recent advances in copolymer-based muscle membrane stabilizers. <i>Skeletal Muscle</i> , <b>2018</b> , 8, 31	5.1	19
371	Melt-Blown Cross-Linked Fibers from Thermally Reversible Diels-Alder Polymer Networks. <i>ACS Macro Letters</i> , <b>2018</b> , 7, 1339-1345	6.6	25
370	Compatibilization of Isotactic Polypropylene (iPP) and High-Density Polyethylene (HDPE) with iPP/PE Multiblock Copolymers. <i>Macromolecules</i> , <b>2018</b> , 51, 8585-8596	5.5	57
369	Network Model of the Disordered Phase in Symmetric Diblock Copolymer Melts. <i>Physical Review Letters</i> , <b>2018</b> , 121, 127802	7.4	9
368	Predicting the phase behavior of ABAC tetrablock terpolymers: Sensitivity to Flory-Huggins interaction parameters. <i>Polymer</i> , <b>2018</b> , 154, 305-314	3.9	13
367	Surface Plasmon Resonance Study of the Binding of PEO-PPO-PEO Triblock Copolymer and PEO Homopolymer to Supported Lipid Bilayers. <i>Langmuir</i> , <b>2018</b> , 34, 6703-6712	4	13
366	Impact of Polymer Excipient Molar Mass and End Groups on Hydrophobic Drug Solubility Enhancement. <i>Macromolecules</i> , <b>2017</b> , 50, 1102-1112	5.5	34
365	Combining polyethylene and polypropylene: Enhanced performance with PE/PP multiblock polymers. <i>Science</i> , <b>2017</b> , 355, 814-816	33.3	251
364	Enhanced Performance of Blended Polymer Excipients in Delivering a Hydrophobic Drug through the Synergistic Action of Micelles and HPMCAS. <i>Langmuir</i> , <b>2017</b> , 33, 2837-2848	4	35
363	Direct Observation of Nanostructures during Aqueous Dissolution of Polymer/Drug Particles. <i>Macromolecules</i> , <b>2017</b> , 50, 3143-3152	5.5	22
362	Molecular Alignment in Polyethylene during Cold Drawing Using In-Situ SANS and Raman Spectroscopy. <i>Macromolecules</i> , <b>2017</b> , 50, 3627-3636	5.5	26
361	Polymer Day: Outreach Experiments for High School Students. <i>Journal of Chemical Education</i> , <b>2017</b> , 94, 1629-1638	2.4	25
360	Thermal processing of diblock copolymer melts mimics metallurgy. <i>Science</i> , <b>2017</b> , 356, 520-523	33.3	159
359	Rheological characterization and thermal modeling of polyolefins for process design and tailored interfaces <b>2017</b> ,		2
358	When convergent syntheses of graft block copolymers diverge: The treachery of chemical images. <i>Journal of Polymer Science Part A</i> , <b>2017</b> , 55, 3097-3104	2.5	7

357	PEO-PPO Diblock Copolymers Protect Myoblasts from Hypo-Osmotic Stress In Vitro Dependent on Copolymer Size, Composition, and Architecture. <i>Biomacromolecules</i> , <b>2017</b> , 18, 2090-2101	6.9	13
356	Chemical End Group Modified Diblock Copolymers Elucidate Anchor and Chain Mechanism of Membrane Stabilization. <i>Molecular Pharmaceutics</i> , <b>2017</b> , 14, 2333-2339	5.6	18
355	50th Anniversary Perspective: Block Polymers Pure Potential. <i>Macromolecules</i> , <b>2017</b> , 50, 3-22	5.5	436
354	Morphological Consequences of Frustration in ABC Triblock Polymers. <i>Macromolecules</i> , <b>2017</b> , 50, 446-458	5.5	17
353	Quantifying Binding of Ethylene Oxide-Propylene Oxide Block Copolymers with Lipid Bilayers. <i>Langmuir</i> , <b>2017</b> , 33, 12624-12634	4	22
352	Design and Characterization of a PVLA-PEG-PVLA Thermosensitive and Biodegradable Hydrogel. <i>ACS Macro Letters</i> , <b>2017</b> , 6, 1134-1139	6.6	16
351	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> , <b>2017</b> , 121, 10657-10664	3.4	16
350	Effect of Branching and Molecular Weight on Heterogeneous Catalytic Deuterium Exchange in Polyolefins. <i>Macromolecules</i> , <b>2017</b> , 50, 6849-6860	5.5	10
349	Block Copolymer Micelle Toughened Isotactic Polypropylene. <i>Macromolecules</i> , <b>2017</b> , 50, 6421-6432	5.5	19
348	Accelerating self-consistent field theory of block polymers in a variable unit cell. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 244902	3.9	14
347	Functionalization of Cadmium Selenide Quantum Dots with Poly(ethylene glycol): Ligand Exchange, Surface Coverage, and Dispersion Stability. <i>Langmuir</i> , <b>2017</b> , 33, 8239-8245	4	23
346	Conformational Asymmetry and Quasicrystal Approximants in Linear Diblock Copolymers. <i>Physical Review Letters</i> , <b>2017</b> , 118, 207801	7.4	79
345	Rapid conformational fluctuations in a model of methylcellulose. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	12
344	Structure, viscoelasticity, and interfacial dynamics of a model polymeric bicontinuous microemulsion. <i>Soft Matter</i> , <b>2016</b> , 12, 53-66	3.6	40
343	Toughened Isotactic Polypropylene: Phase Behavior and Mechanical Properties of Blends with Strategically Designed Random Copolymer Modifiers. <i>Macromolecules</i> , <b>2016</b> , 49, 6497-6506	5.5	31
342	Nanofibers from water-extractable melt-blown immiscible polymer blends. <i>Polymer</i> , <b>2016</b> , 101, 269-273	3.9	19
341	Phase Behavior of Diblock Copolymer-Homopolymer Ternary Blends: Congruent First-Order Lamellar Disorder Transition. <i>Macromolecules</i> , <b>2016</b> , 49, 7928-7944	5.5	24
340	Engineering superior toughness in commercially viable block copolymer modified epoxy resin. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2016</b> , 54, 189-204	2.6	33

339	Broadly Accessible Self-Consistent Field Theory for Block Polymer Materials Discovery. <i>Macromolecules</i> , <b>2016</b> , 49, 4675-4690	5.5	100
338	Synthesis and Rheology of Branched Multiblock Polymers Based on Polylactide. <i>Macromolecules</i> , <b>2016</b> , 49, 4587-4598	5.5	42
337	Lithium Salt-Induced Microstructure and Ordering in Diblock Copolymer/Homopolymer Blends. <i>Macromolecules</i> , <b>2016</b> , 49, 4839-4849	5.5	41
336	Structure of poly(styrene-b-ethylene-alt-propylene) diblock copolymer micelles in binary solvent mixtures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2016</b> , 54, 22-31	2.6	5
335	Water droplet spreading and imbibition on superhydrophilic poly(butylene terephthalate) melt-blown fiber mats. <i>Chemical Engineering Science</i> , <b>2016</b> , 146, 104-114	4.4	47
334	Tough and Sustainable Graft Block Copolymer Thermoplastics. <i>ACS Macro Letters</i> , <b>2016</b> , 5, 407-412	6.6	77
333	Toughening Glassy Poly(lactide) with Block Copolymer Micelles. <i>ACS Macro Letters</i> , <b>2016</b> , 5, 359-364	6.6	57
332	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> , <b>2016</b> , 54, 1437-1442	2.6	4
331	Design of Graft Block Polymer Thermoplastics. <i>Macromolecules</i> , <b>2016</b> , 49, 9108-9118	5.5	49
330	Synergistic Toughening of Epoxy Modified by Graphene and Block Copolymer Micelles. <i>Macromolecules</i> , <b>2016</b> , 49, 9507-9520	5.5	48
329	Chemically Recyclable Biobased Polyurethanes. <i>ACS Macro Letters</i> , <b>2016</b> , 5, 515-518	6.6	79
328	Fluorine-Enriched Melt-Blown Fibers from Polymer Blends of Poly(butylene terephthalate) and a Fluorinated Multiblock Copolyester. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 754-61	9.5	25
327	Intracoronary Poloxamer 188 Prevents Reperfusion Injury in a Porcine Model of ST-Segment Elevation Myocardial Infarction. <i>JACC Basic To Translational Science</i> , <b>2016</b> , 1, 224-234	8.7	22
326	Cornucopia of Nanoscale Ordered Phases in Sphere-Forming Tetrablock Terpolymers. <i>ACS Nano</i> , <b>2016</b> , 10, 4961-72	16.7	79
325	Dodecagonal quasicrystalline order in a diblock copolymer melt. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 5167-72	11.5	126
324	Structure-Conductivity Relationships in Ordered and Disordered Salt-Doped Diblock Copolymer/Homopolymer Blends. <i>Macromolecules</i> , <b>2016</b> , 49, 6928-6939	5.5	49
323	High-Throughput Excipient Discovery Enables Oral Delivery of Poorly Soluble Pharmaceuticals. <i>ACS Central Science</i> , <b>2016</b> , 2, 748-755	16.8	47
322	Impact of molecular weight and comonomer content on catalytic hydrogen-deuterium exchange in polyolefins. <i>Polymer</i> , <b>2016</b> , 102, 99-105	3.9	11



321	Determination of the Lamellae-to-Disorder Heat of Transition in a Short Diblock Copolymer by Relaxation Calorimetry. <i>Macromolecules</i> , <b>2015</b> , 48, 4733-4741	5.5	8
320	Crystallization and Mechanical Properties of Poly(l-lactide)-Based Rubbery/Semicrystalline Multiblock Copolymers. <i>Macromolecules</i> , <b>2015</b> , 48, 4529-4540	5.5	39
319	Linear Rheology of Polyolefin-Based Bottlebrush Polymers. <i>Macromolecules</i> , <b>2015</b> , 48, 4680-4691	5.5	114
318	Linear and Nonlinear Rheological Behavior of Fibrillar Methylcellulose Hydrogels. <i>ACS Macro Letters</i> , <b>2015</b> , 4, 538-542	6.6	52
317	Fluctuations, Phase Transitions, and Latent Heat in Short Diblock Copolymers: Comparison of Experiment, Simulation, and Theory. <i>Macromolecules</i> , <b>2015</b> , 48, 2801-2811	5.5	27
316	Remarkable Effect of Molecular Architecture on Chain Exchange in Triblock Copolymer Micelles. <i>Macromolecules</i> , <b>2015</b> , 48, 2667-2676	5.5	52
315	Thermodynamics of Aqueous Methylcellulose Solutions. <i>Macromolecules</i> , <b>2015</b> , 48, 7205-7215	5.5	46
314	Deconstructing HPMCAS: Excipient Design to Tailor Polymer-Drug Interactions for Oral Drug Delivery. <i>ACS Biomaterials Science and Engineering</i> , <b>2015</b> , 1, 978-990	5.5	35
313	High $\Pi$ Low N Block Polymers: How Far Can We Go?. <i>ACS Macro Letters</i> , <b>2015</b> , 4, 1044-1050	6.6	289
312	Bundled postconditioning therapies improve hemodynamics and neurologic recovery after 17 min of untreated cardiac arrest. <i>Resuscitation</i> , <b>2015</b> , 87, 7-13	4	25
311	Membrane-stabilizing copolymers confer marked protection to dystrophic skeletal muscle in vivo. <i>Molecular Therapy - Methods and Clinical Development</i> , <b>2015</b> , 2, 15042	6.4	30
310	Deformation Processes in Block Copolymer Toughened Epoxies. <i>Macromolecules</i> , <b>2015</b> , 48, 3672-3684	5.5	37
309	Commensurability and finite size effects in lattice simulations of diblock copolymers. <i>Soft Matter</i> , <b>2015</b> , 11, 4862-7	3.6	17
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15	Fluctuation-induced first-order transition of an isotropic system to a periodic state. <i>Physical Review Letters</i> , <b>1988</b> , 61, 2229-2232	7.4	130
14	Spinodal decomposition in isotopic polymer mixtures. <i>Physical Review Letters</i> , <b>1988</b> , 60, 1538-1541	7.4	69
13	Structure of porous Vycor glass. <i>Physical Review A</i> , <b>1987</b> , 36, 2991-2994	2.6	101
12	Critical dynamics of binary polymer mixtures. <i>Journal of Chemical Physics</i> , <b>1986</b> , 85, 633-634	3.9	17
11	Isotope-induced quantum-phase transitions in the liquid state. <i>Physical Review Letters</i> , <b>1986</b> , 57, 1429-1432	7.4	143
10	Using the rotational masking concept to enhance substrate inhibited reaction rates: controlled pore supports for enzyme immobilization. <i>Enzyme and Microbial Technology</i> , <b>1985</b> , 7, 266-274	3.8	6
9	Critical behavior of binary liquid mixtures of deuterated and protonated polymers. <i>Physical Review Letters</i> , <b>1985</b> , 55, 2425-2428	7.4	189
8	Block copolymers near the microphase separation transition. 3. Small-angle neutron scattering study of the homogeneous melt state. <i>Macromolecules</i> , <b>1985</b> , 18, 2478-2486	5.5	77
7	Measurement of the correlation hole in homogeneous block copolymer melts. <i>Macromolecules</i> , <b>1985</b> , 18, 525-528	5.5	44
6	Block copolymers near the microphase separation transition. 1. Preparation and physical characterization of a model system. <i>Macromolecules</i> , <b>1984</b> , 17, 1987-1993	5.5	36
5	Block copolymers near the microphase separation transition. 2. Linear dynamic mechanical properties. <i>Macromolecules</i> , <b>1984</b> , 17, 2607-2613	5.5	176
4	Single-chain scattering in heterogeneous block copolymers. <i>Polymer</i> , <b>1983</b> , 24, 519-524	3.9	44
3	Microphase structure of solvent-cast diblock copolymers and copolymer-homopolymer blends containing spherical microdomains. <i>Macromolecules</i> , <b>1983</b> , 16, 1101-1108	5.5	86
2	Dynamic mechanical properties of polystyrene containing microspherical inclusions of polybutadiene: influence of domain boundaries and rubber molecular weight. <i>Macromolecules</i> , <b>1983</b> , 16, 1108-1114	5.5	70
1	Sphere sizes in diblock copolymers: discrepancy between electron microscopy and small-angle scattering results. <i>Polymer</i> , <b>1982</b> , 23, 1222-1226	3.9	32