

Thomas Charles Buckland McLeish

List of Publications by Year in descending order

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185
papers

13,143
citations

36303

51
h-index

23533

111
g-index

195
all docs

195
docs citations

195
times ranked

7882
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical rheo-physics of silk: Intermolecular associations reduce the critical specific work for flow-induced crystallization. <i>Journal of Rheology</i> , 2022, 66, 515-534.	2.6	4
2	Computational analysis of dynamic allostery and control in the SARS-CoV-2 main protease. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200591.	3.4	37
3	Power Law Stretching of Associating Polymers in Steady-State Extensional Flow. <i>Physical Review Letters</i> , 2021, 126, 057801.	7.8	3
4	Stretching of Bombyx mori Silk Protein in Flow. <i>Molecules</i> , 2021, 26, 1663.	3.8	8
5	THE REâ€DISCOVERY OF CONTEMPLATION THROUGH SCIENCE. <i>Zygon</i> , 2021, 56, 758-776.	0.4	4
6	RESPONSE TO BOYLE LECTURE 2021 PANEL AND PARTICIPANT DISCUSSION. <i>Zygon</i> , 2021, 56, 786-803.	0.4	0
7	Physics of Brains. <i>IScience</i> , 2021, 24, 102877.	4.1	0
8	Combining steady state and temperature jump IR spectroscopy to investigate the allosteric effects of ligand binding to dsDNA. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15352-15363.	2.8	7
9	Membraneless organelles formed by liquid-liquid phase separation increase bacterial fitness. <i>Science Advances</i> , 2021, 7, eabh2929.	10.3	55
10	A meta-metaphor for science: the true and the fictional within the book of nature. <i>Interdisciplinary Science Reviews</i> , 2020, 45, 406-415.	1.4	1
11	Creativity, imagination and being in the image of God: a PrÃ©cis of The Poetry and Music of Science. <i>Interdisciplinary Science Reviews</i> , 2020, 45, 1-7.	1.4	1
12	Silk Protein Solution: A Natural Example of Sticky Reptation. <i>Macromolecules</i> , 2020, 53, 2669-2676.	4.8	26
13	Taking the discussion onward. <i>Interdisciplinary Science Reviews</i> , 2020, 45, 51-70.	1.4	1
14	Soft Matter: A Very Short Introduction. , 2020, , .		5
15	Evolution as an Unwrapping of the Gift of Freedom. <i>Scientia Et Fides</i> , 2020, 8, 43.	0.7	9
16	Chain-stretch relaxation from low-frequency Fourier transform rheology. <i>Physical Review Research</i> , 2020, 2, .	3.6	0
17	Securing the future of research computing in the biosciences. <i>PLoS Computational Biology</i> , 2019, 15, e1006958.	3.2	6
18	Morphology formation in binary mixtures upon gradual destabilisation. <i>Soft Matter</i> , 2019, 15, 8450-8458.	2.7	11

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19	Emergence and topological order in classical and quantum systems. <i>Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics</i> , 2019, 66, 155-169.	1.4	7
20	Polymer extrudate-swell: From monodisperse melts to polydispersity and flow-induced reduction in monomer friction. <i>Journal of Rheology</i> , 2019, 63, 319-333.	2.6	13
21	Controlled Synthesis, Characterization, and Flow Properties of Ethylene-Diene Copolymers. <i>Macromolecular Reaction Engineering</i> , 2019, 13, 1800071.	1.5	8
22	Allostery in Its Many Disguises: From Theory to Applications. <i>Structure</i> , 2019, 27, 566-578.	3.3	285
23	How proteins' negative cooperativity emerges from entropic optimisation of versatile collective fluctuations. <i>Journal of Chemical Physics</i> , 2019, 151, 215101.	3.0	2
24	Pressure and shear rate dependence of the viscosity and stress relaxation of polymer melts. <i>Journal of Rheology</i> , 2018, 62, 631-642.	2.6	20
25	Lucifer's legacy: the meaning of asymmetry. <i>Laterality</i> , 2018, 23, 252-253.	1.0	0
26	Ligand-regulated oligomerisation of allosterically interacting proteins. <i>Soft Matter</i> , 2018, 14, 6961-6968.	2.7	0
27	Allostery and molecular machines. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170173.	4.0	14
28	The 'allosteron' model for entropic allostery of self-assembly. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170186.	4.0	16
29	Theoretical prediction and experimental measurement of isothermal extrudate swell of monodisperse and bidisperse polystyrenes. <i>Journal of Rheology</i> , 2017, 61, 931-945.	2.6	19
30	Bow-shaped caustics from conical prisms: a 13th-century account of rainbow formation from Robert Grosseteste's <i>De iride</i> . <i>Applied Optics</i> , 2017, 56, G197.	1.8	4
31	Listening between the lines: medieval and modern science. <i>Palgrave Communications</i> , 2016, 2, .	4.7	1
32	Elasticity Dominated Surface Segregation of Small Molecules in Polymer Mixtures. <i>Physical Review Letters</i> , 2016, 116, 208301.	7.8	15
33	Evaluating interdisciplinary research: the elephant in the peer-reviewers' room. <i>Palgrave Communications</i> , 2016, 2, .	4.7	15
34	Are there ergodic limits to evolution? Ergodic exploration of genome space and convergence. <i>Interface Focus</i> , 2015, 5, 20150041.	3.0	24
35	Global low-frequency motions in protein allostery: CAP as a model system. <i>Biophysical Reviews</i> , 2015, 7, 175-182.	3.2	21
36	Multi-scale Approaches to Dynamical Transmission of Protein Allostery. , 2015, , 141-152.		0

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37	Dynamic Transmission of Protein Allostery without Structural Change: Spatial Pathways or Global Modes?. <i>Biophysical Journal</i> , 2015, 109, 1240-1250.	0.5	41
38	The Role of Protein-Ligand Contacts in Allosteric Regulation of the Escherichia coli Catabolite Activator Protein. <i>Journal of Biological Chemistry</i> , 2015, 290, 22225-22235.	3.4	37
39	Color-coordinate system from a 13th-century account of rainbows. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, A341.	1.5	12
40	Delayed self-regulation and time-dependent chemical drive leads to novel states in epigenetic landscapes. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140706.	3.4	17
41	Numerical prediction of nonlinear rheology of branched polymer melts. <i>Journal of Rheology</i> , 2014, 58, 737-757.	2.6	36
42	A medieval multiverse?: Mathematical modelling of the thirteenth century universe of Robert Grosseteste. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014, 470, 20140025.	2.1	8
43	All the colours of the rainbow. <i>Nature Physics</i> , 2014, 10, 540-542.	16.7	2
44	The Role of High-Dimensional Diffusive Search, Stabilization, and Frustration in Protein Folding. <i>Biophysical Journal</i> , 2014, 106, 1729-1740.	0.5	6
45	Large amplitude oscillatory shear and Fourier transform rheology analysis of branched polymer melts. <i>Journal of Rheology</i> , 2014, 58, 969-997.	2.6	46
46	PT: a comprehensive toolbox for the analysis of protein motion. <i>BMC Bioinformatics</i> , 2013, 14, 183.	2.6	21
47	Transient overshoot extensional rheology of long-chain branched polyethylenes: Experimental and numerical comparisons between filament stretching and cross-slot flow. <i>Journal of Rheology</i> , 2013, 57, 293-313.	2.6	27
48	Modulation of Global Low-Frequency Motions Underlies Allosteric Regulation: Demonstration in CRP/FNR Family Transcription Factors. <i>PLoS Biology</i> , 2013, 11, e1001651.	5.6	71
49	Allostery without conformation change: modelling protein dynamics at multiple scales. <i>Physical Biology</i> , 2013, 10, 056004.	1.8	59
50	Soft matter's charismatic pioneer. <i>Physics World</i> , 2012, 25, 57-58.	0.0	0
51	A three-dimensional color space from the 13th century. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012, 29, A346.	1.5	20
52	Controlling the Self-Assembly of Binary Copolymer Mixtures in Solution through Molecular Architecture. <i>Macromolecules</i> , 2011, 44, 5510-5519.	4.8	31
53	Controlling the micellar morphology of binary PEO-PCL block copolymers in water-THF through controlled blending. <i>Soft Matter</i> , 2011, 7, 749-759.	2.7	37
54	Cross-slot extensional rheometry and the steady-state extensional response of long chain branched polymer melts. <i>Journal of Rheology</i> , 2011, 55, 875-900.	2.6	28

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55	Physics met biology, and the consequence wasâ€¦. <i>Studies in History and Philosophy of Science Part C: Studies in History and Philosophy of Biological and Biomedical Sciences</i> , 2011, 42, 190-192.	1.3	0
56	Linking Models of Polymerization and Dynamics to Predict Branched Polymer Structure and Flow. <i>Science</i> , 2011, 333, 1871-1874.	12.6	162
57	The effect of boundary curvature on the stress response of linear and branched polyethylenes in a contractionâ€“expansion flow. <i>Rheologica Acta</i> , 2011, 50, 675-689.	2.4	9
58	A coarseâ€“grained molecular model of strainâ€“hardening for polymers in the marginally glassy state. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 920-938.	2.1	17
59	Substrate-Modulated Thermal Fluctuations Affect Long-Range Allosteric Signaling in Protein Homodimers: Exemplified in CAP. <i>Biophysical Journal</i> , 2010, 98, 2317-2326.	0.5	20
60	Chain Deformation in Entangled Polymer Melts at Re-entrant Corners. <i>Macromolecules</i> , 2010, 43, 1539-1542.	4.8	5
61	Fluctuation power spectra reveal dynamical heterogeneity of peptides. <i>Journal of Chemical Physics</i> , 2010, 133, 015101.	3.0	4
62	Elongational Flow of Blends of Long and Short Polymers: Effective Stretch Relaxation Time. <i>Physical Review Letters</i> , 2009, 103, 136001.	7.8	86
63	Statistical mechanics of convergent evolution in spatial patterning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9564-9569.	7.1	27
64	Effect of branching in cross-slot flow: the formation of â€œW cuspsâ€“. <i>Rheologica Acta</i> , 2009, 48, 551-561.	2.4	12
65	Physics meets polymerisation chemistry: modelling the Wurtz reaction. <i>Polymer International</i> , 2009, 58, 239-241.	3.1	3
66	The nonlinear response of entangled star polymers to startup of shear flow. <i>Journal of Rheology</i> , 2009, 53, 1193-1214.	2.6	18
67	Non-linear step strain of branched polymer melts. <i>Journal of Rheology</i> , 2009, 53, 917-942.	2.6	9
68	Organisation of self-assembling peptide nanostructures into macroscopically ordered lamella-like layers by ice crystallisation. <i>Soft Matter</i> , 2009, 5, 1237.	2.7	21
69	Experimental observations and matching viscoelastic specific work predictions of flow-induced crystallization for molten polyethylene within two flow geometries. <i>Journal of Rheology</i> , 2009, 53, 859-876.	2.6	19
70	The long-chain dynamics in a model homopolymer blend under strong flow: small-angle neutron scattering and theory. <i>Soft Matter</i> , 2009, 5, 2383.	2.7	25
71	Neutron flow-mapping: Multiscale modelling opens a new experimental window. <i>Soft Matter</i> , 2009, 5, 4426.	2.7	12
72	Micelle shape transitions in block copolymer/homopolymer blends: Comparison of self-consistent field theory with experiment. <i>Journal of Chemical Physics</i> , 2009, 131, 034904.	3.0	12

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73	Molecular polymeric matter, Weissenberg, Astbury and the pleasure of being wrong. <i>Rheologica Acta</i> , 2008, 47, 479-489.	2.4	6
74	The effect of viscoelasticity on stress fields within polyethylene melt flow for a cross-slot and contraction–expansion slit geometry. <i>Rheologica Acta</i> , 2008, 47, 821-834.	2.4	29
75	Preparation of Hierarchical Hollow CaCO ₃ Particles and the Application as Anticancer Drug Carrier. <i>Journal of the American Chemical Society</i> , 2008, 130, 15808-15810.	13.7	431
76	Floored by the rings. <i>Nature Materials</i> , 2008, 7, 933-935.	27.5	63
77	Synthesis, Temperature Gradient Interaction Chromatography, and Rheology of Entangled Styrene Comb Polymers. <i>Macromolecules</i> , 2008, 41, 5869-5875.	4.8	50
78	Measurement and Modelling of High Density Polyethylene Melt Extrudate Swell. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
79	From Reactor to Rheology in LDPE Modeling. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
80	Non-linear Step Strain of Branched Polymer Melts. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
81	Internal friction of single polypeptide chains at high stretch. <i>Faraday Discussions</i> , 2008, 139, 35.	3.2	36
82	New Dynamical Window onto the Landscape for Forced Protein Unfolding. <i>Physical Review Letters</i> , 2008, 101, 248104.	7.8	8
83	Rheological and Film-Casting Properties of Well-Characterised Polyethylenes with Different Branching Structure. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
84	Neutron Flow-Mapping of Controlled-Architecture Polymer Melts. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
85	Hidden Dynamics in Nanophase Segregated Tri-Pentablocks Copolymers Melt. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
86	Molecular physics of a polymer engineering instability: Experiments and computation. <i>Physical Review E</i> , 2008, 77, 050801.	2.1	11
87	A tangled tale of topological fluids. <i>Physics Today</i> , 2008, 61, 40-45.	0.3	36
88	Demixing instability in coil-rod blends undergoing polycondensation reactions. <i>Journal of Chemical Physics</i> , 2007, 126, 074901.	3.0	4
89	Molecular Dynamics of Pectin Extension. <i>Macromolecular Symposia</i> , 2007, 252, 140-148.	0.7	4
90	A theory for heterogeneous states of polymer melts produced by single chain crystal melting. <i>Soft Matter</i> , 2007, 3, 83-87.	2.7	23

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91	Rouse Model with Internal Friction: A Coarse Grained Framework for Single Biopolymer Dynamics. <i>Macromolecules</i> , 2007, 40, 6770-6777.	4.8	73
92	Entropy and Barrier-Controlled Fluctuations Determine Conformational Viscoelasticity of Single Biomolecules. <i>Biophysical Journal</i> , 2007, 92, 1825-1835.	0.5	52
93	Tearing energy study of oriented and relaxed polystyrene in the glassy state. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 377-394.	2.1	9
94	Computational linear rheology of general branch-on-branch polymers. <i>Journal of Rheology</i> , 2006, 50, 207-234.	2.6	217
95	Molecular Dynamics Simulation of Dextran Extension by Constant Force in Single Molecule AFM. <i>Biophysical Journal</i> , 2006, 91, 3579-3588.	0.5	31
96	Coupling of Global and Local Vibrational Modes in Dynamic Allostery of Proteins. <i>Biophysical Journal</i> , 2006, 91, 2055-2062.	0.5	58
97	Introduction: statistical mechanics of molecular and cellular biological systems. <i>Journal of the Royal Society Interface</i> , 2006, 3, 123-124.	3.4	0
98	Dynamic allostery of protein alpha helical coiled-coils. <i>Journal of the Royal Society Interface</i> , 2006, 3, 125-138.	3.4	33
99	Self-Assembling Peptide Gels. , 2006, , 99-130.		7
100	Shear-Induced Crystallization in Blends of Model Linear and Long-Chain Branched Hydrogenated Polybutadienes. <i>Macromolecules</i> , 2006, 39, 5058-5071.	4.8	90
101	Measuring and Predicting the Dynamics of Linear Monodisperse Entangled Polymers in Rapid Flow through an Abrupt Contraction. A Small Angle Neutron Scattering Study. <i>Macromolecules</i> , 2006, 39, 2700-2709.	4.8	50
102	Viscoelasticity of Monodisperse Comb Polymer Melts. <i>Macromolecules</i> , 2006, 39, 4217-4227.	4.8	105
103	Molecular Dynamics Simulation of Dextran Extension at Constant Pulling Speed. <i>Macromolecular Symposia</i> , 2006, 237, 81-89.	0.7	4
104	Viscoelastic Properties of Single Poly(ethylene glycol) Molecules. <i>ChemPhysChem</i> , 2006, 7, 1710-1716.	2.1	17
105	Diffusive searches in high-dimensional spaces and apparent two-state behaviour in protein folding. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 1861-1868.	1.8	3
106	Dynamic scaling in entangled mean-field gelation polymers. <i>Physical Review E</i> , 2006, 74, 011404.	2.1	21
107	New Molecular Mechanism of Dextran Extension in Single Molecule AFM. <i>Lecture Notes in Computer Science</i> , 2006, , 711-720.	1.3	2
108	Viscoelastic Measurements of Single Molecules on a Millisecond Time Scale by Magnetically Driven Oscillation of an Atomic Force Microscope Cantilever. <i>Langmuir</i> , 2005, 21, 4765-4772.	3.5	44

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109	Small Angle Neutron Scattering Observation of Chain Retraction after a Large Step Deformation. <i>Physical Review Letters</i> , 2005, 95, 166001.	7.8	50
110	Mathematical Virology. <i>Journal of Theoretical Medicine</i> , 2005, 6, 67-68.	0.5	1
111	Rheo-Optical Evidence of CCR in an Entangled Four-Arm Star. <i>Macromolecules</i> , 2005, 38, 1451-1455.	4.8	14
112	Protein Folding in High-Dimensional Spaces: Hypergutters and the Role of Nonnative Interactions. <i>Biophysical Journal</i> , 2005, 88, 172-183.	0.5	26
113	Constriction flows of monodisperse linear entangled polymers: Multiscale modeling and flow visualization. <i>Journal of Rheology</i> , 2005, 49, 501-522.	2.6	72
114	Coarse-Grained Model Of Entropic Allostery. <i>Physical Review Letters</i> , 2004, 93, 098104.	7.8	60
115	Small-Angle Neutron Scattering Study of the Relaxation of a Melt of Polybutadiene H-Polymers Following a Large Step Strain. <i>Macromolecules</i> , 2004, 37, 5054-5064.	4.8	33
116	Viscoelastic Properties of Single Polysaccharide Molecules Determined by Analysis of Thermally Driven Oscillations of an Atomic Force Microscope Cantilever. <i>Langmuir</i> , 2004, 20, 9299-9303.	3.5	57
117	Microscopic theory of linear, entangled polymer chains under rapid deformation including chain stretch and convective constraint release. <i>Journal of Rheology</i> , 2003, 47, 1171-1200.	2.6	430
118	Small-Angle Neutron Scattering from Peptide Nematic Fluids and Hydrogels under Shear. <i>Langmuir</i> , 2003, 19, 4940-4949.	3.5	15
119	Why, and when, does dynamic tube dilation work for stars?. <i>Journal of Rheology</i> , 2003, 47, 177-198.	2.6	38
120	Definitions of entanglement spacing and time constants in the tube model. <i>Journal of Rheology</i> , 2003, 47, 809-818.	2.6	216
121	Neutron-Mapping Polymer Flow: Scattering, Flow Visualization, and Molecular Theory. <i>Science</i> , 2003, 301, 1691-1695.	12.6	164
122	CHEMISTRY: Polymers Without Beginning or End. <i>Science</i> , 2002, 297, 2005-2006.	12.6	156
123	Rheology of Three-Arm Asymmetric Star Polymer Melts. <i>Macromolecules</i> , 2002, 35, 4801-4820.	4.8	106
124	A Model for Defect ² -Diffusion-Controlled Polymerization at a Surface as Typified by the Alkali-Metal Mediated Synthesis of Polysilanes. <i>Macromolecules</i> , 2002, 35, 548-554.	4.8	16
125	Synthesis, Hydrogenation, and Rheology of 1,2-Polybutadiene Star Polymers. <i>Macromolecules</i> , 2002, 35, 467-472.	4.8	19
126	Rheology and Molecular Weight Distribution of Hyperbranched Polymers. <i>Macromolecules</i> , 2002, 35, 9605-9612.	4.8	55

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127	Arm Relaxation in Deformed H-Polymers in Elongational Flow by SANS. <i>Macromolecules</i> , 2002, 35, 6650-6664.	4.8	35
128	Characterization of long chain branching: Dilution rheology of industrial polyethylenes. <i>Journal of Rheology</i> , 2002, 46, 401-426.	2.6	42
129	Quantitative Theory for Linear Dynamics of Linear Entangled Polymers. <i>Macromolecules</i> , 2002, 35, 6332-6343.	4.8	569
130	Tube theory of entangled polymer dynamics. <i>Advances in Physics</i> , 2002, 51, 1379-1527.	14.4	798
131	Using the pom-pom equations to analyze polymer melts in exponential shear. <i>Journal of Rheology</i> , 2001, 45, 275-290.	2.6	40
132	Microscopic theory of convective constraint release. <i>Journal of Rheology</i> , 2001, 45, 539-563.	2.6	139
133	Experimental observation and numerical simulation of transient $\hat{\sigma}$ within flowing molten polyethylene. <i>Journal of Rheology</i> , 2001, 45, 1261-1277.	2.6	68
134	Structure and Dynamics of Self-Assembling β -Sheet Peptide Tapes by Dynamic Light Scattering. <i>Biomacromolecules</i> , 2001, 2, 378-388.	5.4	62
135	Molecular Rheology of Comb Polymer Melts. 1. Linear Viscoelastic Response. <i>Macromolecules</i> , 2001, 34, 7025-7033.	4.8	146
136	Hierarchical self-assembly of chiral rod-like molecules as a model for peptide β -sheet tapes, ribbons, fibrils, and fibers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 11857-11862.	7.1	995
137	Molecular Rheology and Statistics of Long Chain Branched Metallocene-Catalyzed Polyolefins. <i>Macromolecules</i> , 2001, 34, 1928-1945.	4.8	95
138	Theoretical Linear and Nonlinear Rheology of Symmetric Treelike Polymer Melts. <i>Macromolecules</i> , 2001, 34, 2579-2596.	4.8	79
139	Bulk Spinodal Decomposition Studied by Atomic Force Microscopy and Light Scattering. <i>Macromolecules</i> , 2001, 34, 3748-3756.	4.8	35
140	Soft condensed matter: where physics meets biology. <i>Physics World</i> , 2001, 14, 33-38.	0.0	3
141	Shear modulus of polyelectrolyte gels under electric field. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 1381-1393.	1.8	19
142	Linear Melt Rheology and Small-Angle X-ray Scattering of AB Diblocks vs A ₂ B ₂ Four Arm Star Block Copolymers. <i>Macromolecules</i> , 2000, 33, 8399-8414.	4.8	34
143	Microscopic Theory for the Fast Flow of Polymer Melts. <i>Physical Review Letters</i> , 2000, 85, 4550-4553.	7.8	60
144	Molecular drag $\hat{\sigma}$ strain coupling in branched polymer melts. <i>Journal of Rheology</i> , 2000, 44, 121-136.	2.6	138

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145	A Deuterium NMR Study of Selectively Labeled Polybutadiene Star Polymers. <i>Macromolecules</i> , 2000, 33, 7101-7106.	4.8	29
146	Demixing Instability in Polymer Blends Undergoing Polycondensation Reactions. <i>Macromolecules</i> , 2000, 33, 3871-3878.	4.8	6
147	The chevron folding instability in thermoplastic elastomers and other layered materials. <i>Journal Physics D: Applied Physics</i> , 1999, 32, 2087-2099.	2.8	40
148	An investigation of the shape and crossover scaling of flexible tangent hard-sphere polymer chains by Monte Carlo simulation. <i>Journal of Chemical Physics</i> , 1999, 111, 416-428.	3.0	13
149	Scattering from deformed polymer networks. <i>Journal of Chemical Physics</i> , 1999, 111, 8196-8208.	3.0	1
150	Predicting low density polyethylene melt rheology in elongational and shear flows with ϵ -pom-pom constitutive equations. <i>Journal of Rheology</i> , 1999, 43, 873-896.	2.6	206
151	Dynamics of Entangled H-Polymers: Theory, Rheology, and Neutron-Scattering. <i>Macromolecules</i> , 1999, 32, 6734-6758.	4.8	272
152	Closed-Loop Miscibility Gaps in Polymer Blends under Shear Flow. <i>Macromolecules</i> , 1999, 32, 4447-4449.	4.8	5
153	Concentration Fluctuations in Surfactant Cubic Phases: Theory, Rheology, and Light Scattering. <i>Langmuir</i> , 1999, 15, 7495-7503.	3.5	35
154	Anomalous Difference in the Order-Disorder Transition Temperature Comparing a Symmetric Diblock Copolymer AB with Its Hetero-Four-Arm Star Analog A2B2. <i>Macromolecules</i> , 1999, 32, 7483-7495.	4.8	31
155	Real Presences. <i>Theology</i> , 1999, 102, 169-177.	0.0	1
156	Dynamic Dilution, Constraint-Release, and Star-Linear Blends. <i>Macromolecules</i> , 1998, 31, 9345-9353.	4.8	134
157	Arm-Length Dependence of Stress Relaxation in Star Polymer Melts. <i>Macromolecules</i> , 1998, 31, 7479-7482.	4.8	116
158	Molecular constitutive equations for a class of branched polymers: The pom-pom polymer. <i>Journal of Rheology</i> , 1998, 42, 81-110.	2.6	720
159	Rheology and Tube Model Theory of Bimodal Blends of Star Polymer Melts. <i>Macromolecules</i> , 1998, 31, 9295-9304.	4.8	41
160	Read and McLeish Reply:. <i>Physical Review Letters</i> , 1998, 80, 5450-5450.	7.8	5
161	Spinodal-Assisted Crystallization in Polymer Melts. <i>Physical Review Letters</i> , 1998, 81, 373-376.	7.8	367
162	Theory of surface light scattering from a fluid-fluid interface with adsorbed polymeric surfactants. <i>Journal of Chemical Physics</i> , 1998, 109, 5008-5024.	3.0	59

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163	"Lozenge" Contour Plots in Scattering from Polymer Networks. <i>Physical Review Letters</i> , 1997, 79, 87-90.	7.8	29
164	Microscopic Theory for the "Lozenge" Contour Plots in Scattering from Stretched Polymer Networks. <i>Macromolecules</i> , 1997, 30, 6376-6384.	4.8	19
165	Parameter-Free Theory for Stress Relaxation in Star Polymer Melts. <i>Macromolecules</i> , 1997, 30, 2159-2166.	4.8	391
166	Theoretical Molecular Rheology of Branched Polymers in Simple and Complex Flows: The Pom-Pom Model. <i>Physical Review Letters</i> , 1997, 79, 2352-2355.	7.8	92
167	Fashioning Flow by Self-Assembly. <i>Science</i> , 1997, 278, 1577-1578.	12.6	6
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