

Ralph H Colby

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5025424/publications.pdf>

Version: 2024-02-01

255
papers

18,330
citations

10986

71
h-index

15266

126
g-index

256
all docs

256
docs citations

256
times ranked

12671
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic interactions control the modulus and mechanical properties of molecular ionic composite electrolytes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 947-957.	5.5	9
2	Predicting the Plateau Modulus from Molecular Parameters of Conjugated Polymers. <i>ACS Central Science</i> , 2022, 8, 268-274.	11.3	17
3	Shear-induced nematic phase in entangled rod-like PEEK melts. <i>Progress in Polymer Science</i> , 2021, 112, 101323.	24.7	8
4	Rheology of Entangled Polyelectrolyte Solutions. <i>Macromolecules</i> , 2021, 54, 1375-1387.	4.8	20
5	Room Temperature to 150 °C Lithium Metal Batteries Enabled by a Rigid Molecular Ionic Composite Electrolyte. <i>Advanced Energy Materials</i> , 2021, 11, 2003559.	19.5	35
6	Rheology, Sticky Chain, and Sticker Dynamics of Supramolecular Elastomers Based on Cluster-Forming Telechelic Linear and Star Polymers. <i>Macromolecules</i> , 2021, 54, 5065-5076.	4.8	20
7	Rheological response of entangled isotactic polypropylene melts in strong shear flows: Edge fracture, flow curves, and normal stresses. <i>Journal of Rheology</i> , 2021, 65, 605-616.	2.6	6
8	Dual Nakamura model for primary and secondary crystallization applied to nonisothermal crystallization of poly(ether ether ketone). <i>Polymer Engineering and Science</i> , 2021, 61, 2416-2426.	3.1	11
9	Molecular Weight Characterization of Conjugated Polymers Through Gel Permeation Chromatography and Static Light Scattering. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4572-4578.	4.4	11
10	Zwitterions Raise the Dielectric Constant of Soft Materials. <i>Physical Review Letters</i> , 2021, 127, 228001.	7.8	24
11	Effect of Chemical Substituents Attached to the Zwitterion Cation on Dielectric Constant. <i>Journal of Chemical Physics</i> , 2021, 155, 244505.	3.0	2
12	Chain dynamics and glass transition of dry native cellulose solutions in ionic liquids. <i>Soft Matter</i> , 2020, 16, 200-207.	2.7	3
13	Simultaneous Reduction and Polymerization of Graphene Oxide/Styrene Mixtures To Create Polymer Nanocomposites with Tunable Dielectric Constants. <i>ACS Applied Nano Materials</i> , 2020, 3, 962-968.	5.0	28
14	Rheological investigation of collagen, fibrinogen, and thrombin solutions for drop-on-demand 3D bioprinting. <i>Soft Matter</i> , 2020, 16, 10506-10517.	2.7	21
15	Role of Chain Polarity on Ion and Polymer Dynamics: Molecular Volume-Based Analysis of the Dielectric Constant for Polymerized Norbornene-Based Ionic Liquids. <i>Macromolecules</i> , 2020, 53, 10561-10573.	4.8	18
16	Determination of intrinsic viscosity of native cellulose solutions in ionic liquids. <i>Journal of Rheology</i> , 2020, 64, 1063-1073.	2.6	13
17	Terminal Flow of Cluster-Forming Supramolecular Polymer Networks: Single-Chain Relaxation or Micelle Reorganization?. <i>Physical Review Letters</i> , 2020, 125, 127801.	7.8	20
18	Flow-Induced Crystallization of Poly(ether ether ketone): Universal Aspects of Specific Work Revealed by Corroborative Rheology and X-ray Scattering Studies. <i>Macromolecules</i> , 2020, 53, 10040-10050.	4.8	15

#	ARTICLE	IF	CITATIONS
19	Crystal nucleation in poly(ether ether ketone)/carbon nanotube nanocomposites at high and low supercooling of the melt. <i>Polymer</i> , 2020, 199, 122548.	3.8	14
20	Shear-Induced Isotropic–Nematic Transition in Poly(ether ether ketone) Melts. <i>ACS Macro Letters</i> , 2020, 9, 950-956.	4.8	9
21	The Effect of Oligo(oxyethylene) Moieties on Ion Conduction and Dielectric Properties of Norbornene-Based Imidazolium Tf ₂ N Ionic Liquid Monomers. <i>Macromolecules</i> , 2020, 53, 4990-5000.	4.8	11
22	Glass transition temperature from the chemical structure of conjugated polymers. <i>Nature Communications</i> , 2020, 11, 893.	12.8	130
23	Ion Transport and Mechanical Properties of Non-Crystallizable Molecular Ionic Composite Electrolytes. <i>Macromolecules</i> , 2020, 53, 1405-1414.	4.8	22
24	Shear Flow-Induced Crystallization of Poly(ether ether ketone). <i>Macromolecules</i> , 2020, 53, 3472-3481.	4.8	13
25	Shear-Induced Oriented Crystallization for Isotactic Poly(1-butene) and Its Copolymer with Ethylene. <i>Macromolecules</i> , 2020, 53, 3071-3081.	4.8	10
26	Solvent-non-solvent rapid-injection for preparing nanostructured materials from micelles to hydrogels. <i>Nature Communications</i> , 2019, 10, 3855.	12.8	30
27	Thermal Fluctuations Lead to Cumulative Disorder and Enhance Charge Transport in Conjugated Polymers. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900134.	3.9	8
28	Ion–Dipole-Interaction-Driven Complexation of Polyethers with Polyviologen-Based Single-Ion Conductors. <i>Macromolecules</i> , 2019, 52, 4240-4250.	4.8	5
29	Hierarchical Sticker and Sticky Chain Dynamics in Self-Healing Butyl Rubber Ionomers. <i>Macromolecules</i> , 2019, 52, 4169-4184.	4.8	48
30	Constraint Release Mechanisms for H-Polymers Moving in Linear Matrices of Varying Molar Masses. <i>Macromolecules</i> , 2019, 52, 3010-3028.	4.8	21
31	Ion Conducting ROMP Monomers Based on (Oxa)norbornenes with Pendant Imidazolium Salts Connected via Oligo(oxyethylene) Units and with Oligo(ethyleneoxy) Terminal Moieties. <i>Macromolecules</i> , 2019, 52, 1371-1388.	4.8	6
32	Studies of Ion Conductance in Polymers Derived from Norbornene Imidazolium Salts Containing Ethyleneoxy Moieties. <i>Macromolecules</i> , 2019, 52, 1389-1399.	4.8	5
33	Influence of Bibenzoate Regioisomers on Cyclohexanedimethanol-Based (Co)polyester Structure–Property Relationships. <i>Macromolecules</i> , 2019, 52, 835-843.	4.8	13
34	Isothermal crystallization of poly(ether ether ketone) with different molecular weights over a wide temperature range. <i>Polymer Crystallization</i> , 2019, 2, e10055.	0.8	23
35	Linear Viscoelasticity and Cation Conduction in Polyurethane Sulfonate Ionomers with Ions in the Soft Segment–Multiphase Systems. <i>Macromolecules</i> , 2018, 51, 2767-2775.	4.8	16
36	Electrostatic and Hydrophobic Interactions in NaCMC Aqueous Solutions: Effect of Degree of Substitution. <i>Macromolecules</i> , 2018, 51, 3165-3175.	4.8	75

#	ARTICLE	IF	CITATIONS
37	Mechanical Properties of Tandem-Repeat Proteins Are Governed by Network Defects. ACS Biomaterials Science and Engineering, 2018, 4, 884-891.	5.2	26
38	Sensitivity of Polymer Crystallization to Shear at Low and High Supercooling of the Melt. Macromolecules, 2018, 51, 2785-2795.	4.8	43
39	Dynamics of associative polymers. Soft Matter, 2018, 14, 2961-2977.	2.7	184
40	Linear Viscoelasticity and Cation Conduction in Polyurethane Sulfonate Ionomers with Ions in the Soft Segment—Single Phase Systems. Macromolecules, 2018, 51, 2757-2766.	4.8	16
41	Connecting the Mechanical and Conductive Properties of Conjugated Polymers. Advanced Electronic Materials, 2018, 4, 1700356.	5.1	41
42	Linear viscoelastic response and steady shear viscosity of native cellulose in 1-ethyl-3-methylimidazolium methylphosphonate. Journal of Rheology, 2018, 62, 81-87.	2.6	23
43	Local Chain Alignment via Nematic Ordering Reduces Chain Entanglement in Conjugated Polymers. Macromolecules, 2018, 51, 10271-10284.	4.8	24
44	Crystallization behavior of sheared polyamide 66. AIP Conference Proceedings, 2018, , .	0.4	1
45	Side chain length affects backbone dynamics in poly(3-alkylthiophene)s. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 1193-1202.	2.1	31
46	Isothermal Flow-Induced Crystallization of Polyamide 66 Melts. Macromolecules, 2018, 51, 4269-4279.	4.8	27
47	Practical Oil Spill Recovery by a Combination of Polyolefin Absorbent and Mechanical Skimmer. ACS Sustainable Chemistry and Engineering, 2018, 6, 12036-12045.	6.7	51
48	Linear Viscoelasticity and Swelling of Polyelectrolyte Complex Coacervates. Macromolecules, 2018, 51, 5547-5555.	4.8	62
49	Two Distinct Morphologies for Semicrystalline Isotactic Polypropylene Crystallized after Shear Flow. Macromolecules, 2018, 51, 4750-4761.	4.8	27
50	Morphological Evolution of Ionomer/Plasticizer Mixtures during a Transition from Ionomer to Polyelectrolyte. Macromolecules, 2017, 50, 963-971.	4.8	25
51	Viscosity and Scaling of Semiflexible Polyelectrolyte NaCMC in Aqueous Salt Solutions. Macromolecules, 2017, 50, 332-338.	4.8	94
52	Nonlinear shear and uniaxial extensional rheology of polyether-ester-sulfonate copolymer ionomer melts. Journal of Rheology, 2017, 61, 1279-1289.	2.6	46
53	Discussion of paper by J. Brassinne, A. Cadix, J. Wilson and E. van Ruymbeke, entitled “Dissociating sticker dynamics from chain relaxation in supramolecular polymer networks” The importance of free partner!™. Journal of Rheology, 2017, 61, 1135-1136.	2.6	1
54	Discussion of paper by L.-E. Chile, P. Mehrkhodavandi, and S. G. Hatzikiriakos, entitled “Aromatic interactions in aryl-capped polylactides: A thermorheological investigation”™. Journal of Rheology, 2017, 61, 1149-1149.	2.6	0

#	ARTICLE	IF	CITATIONS
55	Discussion of paper by A. Louhichi, A. R. Jacob, L. Bouteiller and D. Vlassopoulos, entitled "Humidity affects the viscoelastic properties of supramolecular living polymers". Journal of Rheology, 2017, 61, 1183-1184.	2.6	0
56	Discussion of paper by M. Staropoli, A. Raba, C. H. Hovelmann, M.-S. Appavou, J. Allgaier, M. Krutyeva, W. Pyckhout-Hintzen, A. Wischniewski, and D. Richter, entitled "Melt dynamics of supramolecular comb polymers: Viscoelastic and dielectric response". Journal of Rheology, 2017, 61, 1197-1198.	2.6	0
57	Discussion of paper by Z. Zhang, C. Huang, R. A. Weiss, and Quan Chen, entitled "Association energy in strongly associative polymers". Journal of Rheology, 2017, 61, 1209-1209.	2.6	0
58	Discussion of paper by F. Zhuge, L. G. D. Hawke, C.-A. Fustin, J.-F. Gohy and E. van Ruymbeke, entitled "Decoding the linear viscoelastic properties of model telechelic metallo-supramolecular polymers". Journal of Rheology, 2017, 61, 1263-1265.	2.6	1
59	Discussion of paper by S. Arora, A. Shabbir, O. Hassager, C. Ligoure, L. Ramos, entitled "Brittle fracture of polymer transient networks". Journal of Rheology, 2017, 61, 1277-1278.	2.6	0
60	Discussion of paper by A. Shabbir, Q. Huang, G. Baeza, D. Vlassopoulos, Q. Chen, R. H. Colby, N. J. Alvarez and O. Hassager, entitled "Nonlinear shear and uniaxial extensional rheology of polyether-ester-sulfonate copolymer ionomer melts". Journal of Rheology, 2017, 61, 1291-1291.	2.6	0
61	Discussion of paper by J. Zhao, K. Mayumi, C. Creton and T. Narita, entitled "Rheological properties of tough hydrogels based on an associating polymer with permanent and transient crosslinks: Effects of crosslinking density". Journal of Rheology, 2017, 61, 1385-1385.	2.6	0
62	The Effect of Water on Rheology of Native Cellulose/Ionic Liquids Solutions. Biomacromolecules, 2017, 18, 2849-2857.	5.4	22
63	The Role of Solvating 12-Crown-4 Plasticizer on Dielectric Constant and Ion Conduction of Poly(ethylene oxide) Single-Ion Conductors. Macromolecules, 2017, 50, 5582-5591.	4.8	32
64	Glass Transition Temperature of Conjugated Polymers by Oscillatory Shear Rheometry. Macromolecules, 2017, 50, 5146-5154.	4.8	78
65	Imidazolium-Based Ionic Liquids as Initiators in Ring Opening Polymerization: Ionic Conduction and Dielectric Response of End-Functional Polycaprolactones and Their Block Copolymers. Macromolecular Chemistry and Physics, 2016, 217, 1270-1281.	2.2	10
66	Diffusive Flux as a New Metric for Ion-Conducting Soft Materials. ACS Energy Letters, 2016, 1, 1179-1183.	17.4	15
67	The diffusion and conduction of lithium in poly(ethylene oxide)-based sulfonate ionomers. Journal of Chemical Physics, 2016, 145, 114903.	3.0	17
68	Viscoelasticity of entangled random polystyrene ionomers. Journal of Rheology, 2016, 60, 1031-1040.	2.6	70
69	Reversible Gelation Model Predictions of the Linear Viscoelasticity of Oligomeric Sulfonated Polystyrene Ionomer Blends. Macromolecules, 2016, 49, 3936-3947.	4.8	35
70	Brittle fracture in associative polymers: the case of ionomer melts. Soft Matter, 2016, 12, 7606-7612.	2.7	34
71	Transition in Crystal Morphology for Flow-Induced Crystallization of Isotactic Polypropylene. Macromolecules, 2016, 49, 5561-5575.	4.8	30
72	Network dynamics in nanofilled polymers. Nature Communications, 2016, 7, 11368.	12.8	180

#	ARTICLE	IF	CITATIONS
73	Flow-Induced Crystallization of PEEK: Isothermal Crystallization Kinetics and Lifetime of Flow-Induced Precursors during Isothermal Annealing. ACS Macro Letters, 2016, 5, 849-853.	4.8	43
74	Segmental Dynamics of Ethylene Oxide-Containing Polymers with Diverse Backbone Chemistries. Macromolecules, 2016, 49, 1903-1910.	4.8	13
75	Segmental Dynamics and Dielectric Constant of Polysiloxane Polar Copolymers as Plasticizers for Polymer Electrolytes. ACS Applied Materials & Interfaces, 2016, 8, 3215-3225.	8.0	73
76	Evolution of morphology, segmental dynamics, and conductivity in ionic liquid swollen short side chain perfluorosulfonate ionomer membranes. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1273-1280.	2.1	8
77	Onset of Flow-Induced Crystallization Kinetics of Highly Isotactic Polypropylene. Macromolecules, 2015, 48, 3725-3738.	4.8	74
78	Molecular Volume Effects on the Dynamics of Polymerized Ionic Liquids and their Monomers. Electrochimica Acta, 2015, 175, 55-61.	5.2	76
79	Lifetime of Flow-Induced Precursors in Isotactic Polypropylene. Macromolecules, 2015, 48, 7286-7299.	4.8	57
80	Ionic aggregate dissolution and conduction in a plasticized single-ion polymer conductor. Polymer, 2015, 59, 133-143.	3.8	44
81	Synthesis, Morphology, and Ion Conduction of Polyphosphazene Ammonium Iodide Ionomers. Macromolecules, 2015, 48, 111-118.	4.8	27
82	Viscoelasticity of Reversible Gelation for Ionomers. Macromolecules, 2015, 48, 1221-1230.	4.8	123
83	Ion Conduction in a Semicrystalline Polyviologen and Its Polyether Mixtures. Macromolecular Chemistry and Physics, 2015, 216, 344-349.	2.2	13
84	Structure of sodium carboxymethyl cellulose aqueous solutions: A SANS and rheology study. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 492-501.	2.1	141
85	Imidazole-containing triblock copolymers with a synergy of ether and imidazolium sites. Journal of Materials Chemistry C, 2015, 3, 3891-3901.	5.5	27
86	Mechanical Reinforcement of Polymer Nanocomposites from Percolation of a Nanoparticle Network. ACS Macro Letters, 2015, 4, 398-402.	4.8	189
87	Ion States and Transport in Styrenesulfonate Methacrylic PEO ₉ Random Copolymer Ionomers. Macromolecules, 2015, 48, 7273-7285.	4.8	37
88	Plasticizing Li single-ion conductors with low-volatility siloxane copolymers and oligomers containing ethylene oxide and cyclic carbonates. Journal of Materials Chemistry A, 2015, 3, 21269-21276.	10.3	24
89	Linear Viscoelasticity and Dielectric Spectroscopy of Ionomer/Plasticizer Mixtures: A Transition from Ionomer to Polyelectrolyte. Macromolecules, 2015, 48, 8240-8252.	4.8	49
90	Well-Defined Imidazolium ABA Triblock Copolymers as Ionic-Liquid-Containing Electroactive Membranes. Macromolecular Chemistry and Physics, 2014, 215, 1319-1331.	2.2	36

#	ARTICLE	IF	CITATIONS
91	Dielectric and Viscoelastic Responses of Imidazolium-Based Ionomers with Different Counterions and Side Chain Lengths. <i>Macromolecules</i> , 2014, 47, 777-790.	4.8	179
92	Both protein adsorption and aggregation contribute to shear yielding and viscosity increase in protein solutions. <i>Soft Matter</i> , 2014, 10, 122-131.	2.7	73
93	High Ion Content Siloxane Phosphonium Ionomers with Very Low σ_g . <i>Macromolecules</i> , 2014, 47, 4428-4437.	4.8	48
94	Discussion of 010405JOR by J. Kim et al.. <i>Journal of Rheology</i> , 2014, 58, 1391-1394.	2.6	0
95	Discussion of 005405JOR by J. M. Kim et al.. <i>Journal of Rheology</i> , 2014, 58, 1329-1329.	2.6	0
96	Discussion of 004405JOR by M. Laurati et al.. <i>Journal of Rheology</i> , 2014, 58, 1418-1418.	2.6	0
97	Explaining the Non-Newtonian Character of Aggregating Monoclonal Antibody Solutions Using Small-Angle Neutron Scattering. <i>Biophysical Journal</i> , 2014, 107, 469-476.	0.5	32
98	Segmental Dynamics of Polymer Melts with Spherical Nanoparticles. <i>ACS Macro Letters</i> , 2014, 3, 773-777.	4.8	128
99	Influence of Solvating Plasticizer on Ion Conduction of Polysiloxane Single-Ion Conductors. <i>Macromolecules</i> , 2014, 47, 3145-3153.	4.8	63
100	Linear viscoelasticity of sulfonated styrene oligomers near the sol-gel transition. <i>Korea Australia Rheology Journal</i> , 2014, 26, 257-261.	1.7	19
101	Linear Viscoelasticity and Fourier Transform Infrared Spectroscopy of Polyether- ϵ -Sulfonate Copolymer Ionomers. <i>Macromolecules</i> , 2014, 47, 3635-3644.	4.8	47
102	Official symbols and nomenclature of The Society of Rheology. <i>Journal of Rheology</i> , 2013, 57, 1047-1055.	2.6	57
103	Ionomer dynamics and the sticky Rouse model. <i>Journal of Rheology</i> , 2013, 57, 1441-1462.	2.6	197
104	Linear Viscoelastic and Dielectric Properties of Phosphonium Siloxane Ionomers. <i>ACS Macro Letters</i> , 2013, 2, 970-974.	4.8	63
105	Exploring the role of ion solvation in ethylene oxide based single-ion conducting polyanions and polycations. <i>Soft Matter</i> , 2013, 9, 10275.	2.7	29
106	Polloidal Chains from Self-Assembly of Flattened Particles. <i>Langmuir</i> , 2013, 29, 10340-10345.	3.5	26
107	Electroactuation with single charge carrier ionomers: the roles of electrostatic pressure and steric strain. <i>Soft Matter</i> , 2013, 9, 3767.	2.7	21
108	Polyurethanes Containing an Imidazolium Diol-Based Ionic-Liquid Chain Extender for Incorporation of Ionic-Liquid Electrolytes. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1027-1036.	2.2	62

#	ARTICLE	IF	CITATIONS
109	Polymerized Ionic Liquids with Enhanced Static Dielectric Constants. <i>Macromolecules</i> , 2013, 46, 1175-1186.	4.8	126
110	Synthesis and Characterization of Maleic Anhydride Grafted Polypropylene with a Well-Defined Molecular Structure. <i>Macromolecules</i> , 2013, 46, 4313-4323.	4.8	62
111	Mesoscopic Structural Length Scales in P3HT/PCBM Mixtures Remain Invariant for Various Processing Conditions. <i>Chemistry of Materials</i> , 2013, 25, 2812-2818.	6.7	19
112	Dispersing Grafted Nanoparticle Assemblies into Polymer Melts through Flow Fields. <i>ACS Macro Letters</i> , 2013, 2, 1051-1055.	4.8	32
113	Statics and dynamics of electroactuation with single-charge-carrier ionomers. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 082203.	1.8	8
114	Solid state nuclear magnetic resonance investigation of polymer backbone dynamics in poly(ethylene terephthalate). <i>Journal of Chemical Physics</i> , 2013, 138, 194907.	3.0	9
115	Cluster-continuum quantum mechanical models to guide the choice of anions for Li ⁺ -conducting ionomers. <i>Journal of Chemical Physics</i> , 2013, 139, 204905.	3.0	21
116	Nuclear magnetic resonance investigation of dynamics in poly(ethylene oxide)-based lithium polyether-ester-sulfonate ionomers. <i>Journal of Chemical Physics</i> , 2012, 136, 014510.	3.0	25
117	Self-Assembly of Doublets from Flattened Polymer Colloids. <i>Langmuir</i> , 2012, 28, 4086-4094.	3.5	15
118	Molecular Mobility and Cation Conduction in Polyether-ester-sulfonate Copolymer Ionomers. <i>Macromolecules</i> , 2012, 45, 3962-3973.	4.8	67
119	Ionic Conduction and Dielectric Response of Poly(imidazolium acrylate) Ionomers. <i>Macromolecules</i> , 2012, 45, 3974-3985.	4.8	151
120	Synthesis and Lithium Ion Conduction of Polysiloxane Single-Ion Conductors Containing Novel Weak-Binding Borates. <i>Chemistry of Materials</i> , 2012, 24, 2316-2323.	6.7	129
121	First Principles Design of Ionomers for Facile Ion Transport. <i>ACS Symposium Series</i> , 2012, , 19-44.	0.5	6
122	Thermally Driven Ionic Aggregation in Poly(ethylene oxide)-Based Sulfonate Ionomers. <i>Journal of the American Chemical Society</i> , 2011, 133, 10826-10831.	13.7	102
123	Model Random Polyampholytes from Nonpolar Methacrylic Esters. <i>Macromolecules</i> , 2011, 44, 3810-3816.	4.8	8
124	Counterion Dynamics in Polyester-sulfonate Ionomers with Ionic Liquid Counterions. <i>Macromolecules</i> , 2011, 44, 3572-3582.	4.8	86
125	1,2-Bis[N-(N-alkylimidazolium)]ethane salts: a new class of organic ionic plastic crystals. <i>Journal of Materials Chemistry</i> , 2011, 21, 12280.	6.7	54
126	Mechanical Reinforcement in Polymer Melts Filled with Polymer Grafted Nanoparticles. <i>Macromolecules</i> , 2011, 44, 7473-7477.	4.8	180

#	ARTICLE	IF	CITATIONS
127	Solution rheology of cellulose in 1-butyl-3-methyl imidazolium chloride. <i>Journal of Rheology</i> , 2011, 55, 485-494.	2.6	78
128	Counterion Dynamics in Polyurethane-Carboxylate Ionomers with Ionic Liquid Counterions. <i>Chemistry of Materials</i> , 2011, 23, 1862-1873.	6.7	92
129	Imidazolium Polyesters: Structure-Property Relationships in Thermal Behavior, Ionic Conductivity, and Morphology. <i>Advanced Functional Materials</i> , 2011, 21, 708-717.	14.9	94
130	Proton conducting 9P2O5-6TiO2-85SiO2 glass-filled Nafion® composite membranes. <i>Journal of Membrane Science</i> , 2011, 366, 421-426.	8.2	7
131	Structure and linear viscoelasticity of flexible polymer solutions: comparison of polyelectrolyte and neutral polymer solutions. <i>Rheologica Acta</i> , 2010, 49, 425-442.	2.4	397
132	Influence of imidazolium-based ionic liquids on the performance of ionic polymer conductor network composite actuators. <i>Polymer International</i> , 2010, 59, 321-328.	3.1	67
133	Ion Conduction in Imidazolium Acrylate Ionic Liquids and their Polymers. <i>Chemistry of Materials</i> , 2010, 22, 5814-5822.	6.7	124
134	“Gel-like” Mechanical Reinforcement in Polymer Nanocomposite Melts. <i>Macromolecules</i> , 2010, 43, 1003-1010.	4.8	209
135	Multi-Length Scale Morphology of Poly(ethylene oxide)-Based Sulfonate Ionomers with Alkali Cations at Room Temperature. <i>Macromolecules</i> , 2010, 43, 4223-4229.	4.8	76
136	Controlled Flats on Spherical Polymer Colloids. <i>Langmuir</i> , 2010, 26, 7644-7649.	3.5	24
137	Role of Distributions of Intramolecular Concentrations on the Dynamics of Miscible Polymer Blends Probed by Molecular Dynamics Simulation. <i>Physical Review Letters</i> , 2009, 103, 037801.	7.8	21
138	Molecular mobility and Li ⁺ conduction in polyester copolymer ionomers based on poly(ethylene) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 3	3.0	173
139	Anisotropic self-assembly of spherical polymer-grafted nanoparticles. <i>Nature Materials</i> , 2009, 8, 354-359.	27.5	925
140	The effect of physiologically relevant additives on the rheological properties of concentrated Pluronic copolymer gels. <i>Polymer</i> , 2008, 49, 3561-3567.	3.8	58
141	Rheology of Thermoreversible Hydrogels from Multiblock Associating Copolymers. <i>Macromolecules</i> , 2008, 41, 3646-3652.	4.8	37
142	Molecular Mobility, Ion Mobility, and Mobile Ion Concentration in Poly(ethylene oxide)-Based Polyurethane Ionomers. <i>Macromolecules</i> , 2008, 41, 5723-5728.	4.8	181
143	Solution Rheology of a Strongly Charged Polyelectrolyte in Good Solvent. <i>Macromolecules</i> , 2008, 41, 6505-6510.	4.8	40
144	Rheo-NMR of Wormlike Micelles Formed from Nonionic Pluronic Surfactants. <i>Macromolecules</i> , 2008, 41, 804-814.	4.8	20

#	ARTICLE	IF	CITATIONS
145	Polyelectrolyte Solution Rheology. AIP Conference Proceedings, 2008, , .	0.4	0
146	Influence of polymer chain connectivity on local composition distribution in miscible polymer blends. Philosophical Magazine, 2008, 88, 3979-3989.	1.6	6
147	One-pot Synthesis of Long Chain Branch PP (LCBPP) Using Ziegler-Natta Catalyst and Branching Reagents. Macromolecular Symposia, 2007, 260, 34-41.	0.7	7
148	Alan A. Jones (1944-2006). Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 127-128.	2.1	0
149	Synthesis and Characterization of Long Chain Branched Isotactic Polypropylene via Metallocene Catalyst and T-Reagent. Macromolecules, 2007, 40, 2712-2720.	4.8	112
150	Shear-Induced Layered Structure of Polymeric Micelles by SANS. Macromolecules, 2007, 40, 4016-4022.	4.8	59
151	Dynamics of Miscible Polymer Blends: Role of Concentration Fluctuations on Characteristic Segmental Relaxation Times. Macromolecules, 2007, 40, 5759-5766.	4.8	35
152	Dynamics of Miscible Polymer Blends: Predicting the Dielectric Response. Macromolecules, 2007, 40, 5767-5775.	4.8	48
153	Dynamic light scattering and rheology studies of aqueous solutions of amphiphilic sodium maleate containing copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 774-785.	2.1	26
154	Ionic partners split up. Nature Materials, 2007, 6, 401-402.	27.5	8
155	Shear thinning of unentangled flexible polymer liquids. Rheologica Acta, 2007, 46, 569-575.	2.4	84
156	Dielectric scaling in polyelectrolyte solutions with different solvent quality in the dilute concentration regime. Physical Chemistry Chemical Physics, 2006, 8, 3653.	2.8	14
157	Rheopexy of synovial fluid and protein aggregation. Journal of the Royal Society Interface, 2006, 3, 167-174.	3.4	105
158	Synthesis and Characterization of Poly(Ethylene Glycol)-Based Single-Ion Conductors. Chemistry of Materials, 2006, 18, 4288-4295.	6.7	122
159	Modeling electrode polarization in dielectric spectroscopy: Ion mobility and mobile ion concentration of single-ion polymer electrolytes. Journal of Chemical Physics, 2006, 124, 144903.	3.0	403
160	A comparison of rheology, dielectric response, and calorimetry within indane-based glass-formers. Journal of Non-Crystalline Solids, 2006, 352, 4776-4784.	3.1	4
161	Charge density effects in salt-free polyelectrolyte solution rheology. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 2001-2013.	2.1	73
162	Temperature and hydrophobic alcohol-induced structural changes of Pluronics micelles. Physica B: Condensed Matter, 2006, 385-386, 685-687.	2.7	24

#	ARTICLE	IF	CITATIONS
163	Collective motion in Poly(ethylene oxide)/poly(methylmethacrylate) blends. <i>Physical Review E</i> , 2005, 72, 031809.	2.1	38
164	Solvent quality influence on the dielectric properties of polyelectrolyte solutions: A scaling approach. <i>Physical Review E</i> , 2005, 72, 031806.	2.1	16
165	Enhanced Elasticity and Soft Glassy Rheology of a Smectic in a Random Porous Environment. <i>Physical Review Letters</i> , 2005, 94, 107801.	7.8	43
166	Conductometric properties of linear polyelectrolytes in poor-solvent condition: The necklace model. <i>Journal of Chemical Physics</i> , 2005, 122, 234906.	3.0	11
167	Segmental Dynamics of Head-to-Head Polypropylene and Polyisobutylene in Their Blend and Pure Components. <i>Macromolecules</i> , 2005, 38, 7721-7729.	4.8	58
168	Modeling the Segmental Relaxation Time Distribution of Miscible Polymer Blends: Polyisoprene/Poly(vinylethylene). <i>Macromolecules</i> , 2005, 38, 4919-4928.	4.8	52
169	Glass transition and ionic conduction in plasticized and doped ionomers. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 2825-2830.	3.1	79
170	Rheology of Polyethylenes with Novel Branching Topology Synthesized by a Chain-Walking Catalyst. <i>Macromolecules</i> , 2005, 38, 10571-10579.	4.8	38
171	Amphiphilic maleic acid-containing alternating copolymers?2. Dilute solution characterization by light scattering, intrinsic viscosity, and PGSE NMR spectroscopy. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 3584-3597.	2.1	17
172	Amphiphilic maleic acid-containing alternating copolymers?1. Dissociation behavior and compositions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 3571-3583.	2.1	33
173	Polyampholytes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 3513-3538.	2.1	269
174	Effect of the Hydrophilic Size on the Structural Phases of Aqueous Nonionic Gemini Surfactant Solutions. <i>Langmuir</i> , 2004, 20, 9061-9068.	3.5	31
175	Structure and Dynamics in Aqueous Solutions of Amphiphilic Sodium Maleate-Containing Alternating Copolymers. <i>Macromolecules</i> , 2004, 37, 8457-8465.	4.8	36
176	Correlations of Solution Rheology with Electrospun Fiber Formation of Linear and Branched Polyesters. <i>Macromolecules</i> , 2004, 37, 1760-1767.	4.8	594
177	Miscible Polymer Blend Dynamics: Double Reptation Predictions of Linear Viscoelasticity in Model Blends of Polyisoprene and Poly(vinyl ethylene). <i>Macromolecules</i> , 2004, 37, 6994-7000.	4.8	42
178	Dielectric spectroscopy and conductivity of polyelectrolyte solutions. <i>Journal of Physics Condensed Matter</i> , 2004, 16, R1423-R1463.	1.8	181
179	Surface characterization of cross-linked elastomers by shear modulation force microscopy. <i>Polymer</i> , 2003, 44, 3327-3332.	3.8	23
180	Kinetics of Triple Helix Formation in Semidilute Gelatin Solutions. <i>Macromolecules</i> , 2003, 36, 9999-10008.	4.8	137

#	ARTICLE	IF	CITATIONS
181	What Length Scales Control the Dynamics of Miscible Polymer Blends?. <i>Macromolecules</i> , 2003, 36, 10087-10094.	4.8	89
182	Physical Gelation of Gelatin Studied with Rheo-Optics. <i>Macromolecules</i> , 2003, 36, 10009-10020.	4.8	114
183	Dynamic Heterogeneity in Miscible Polymer Blends with Stiffness Disparity: A Computer Simulations Using the Bond Fluctuation Model. <i>Macromolecules</i> , 2003, 36, 8567-8573.	4.8	35
184	Viscosity of Polyelectrolyte Solutions with Oppositely Charged Surfactant. <i>Journal of Physical Chemistry B</i> , 2003, 107, 8166-8171.	2.6	55
185	Evidence for dynamic heterogeneities in computer simulations of miscible polymer blends. <i>Physical Review E</i> , 2003, 67, 010801.	2.1	23
186	Thermodynamic signature of the onset of caged dynamics in glass-forming liquids. <i>Journal of Chemical Physics</i> , 2002, 116, 865-868.	3.0	22
187	Dielectric Relaxations in Aqueous Polyelectrolyte Solutions: A Scaling Approach and the Role of the Solvent Quality Parameter. <i>Langmuir</i> , 2002, 18, 6404-6409.	3.5	15
188	Computer Simulations of Local Concentration Variations in Miscible Polymer Blends. <i>Macromolecules</i> , 2002, 35, 9211-9218.	4.8	49
189	Determination of Polyelectrolyte Charge and Interaction with Water Using Dielectric Spectroscopy. <i>Macromolecules</i> , 2002, 35, 7031-7038.	4.8	39
190	Electrical Conductivity of Polyelectrolyte Solutions in the Semidilute and Concentrated Regime: The Role of Counterion Condensation. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6887-6893.	2.6	87
191	Temperature dependence of relaxation times and the length scale of cooperative motion for glass-forming liquids. <i>Journal of Non-Crystalline Solids</i> , 2002, 307-310, 225-231.	3.1	68
192	Investigations of thermal polymerization in the stable free-radical polymerization of 2-vinylnaphthalene. <i>Journal of Polymer Science Part A</i> , 2002, 40, 583-590.	2.3	17
193	Micellar structure changes in aqueous mixtures of nonionic surfactants. <i>Journal of Rheology</i> , 2001, 45, 1223-1243.	2.6	60
194	Rheology of Sodium Hyaluronate under Physiological Conditions. <i>Biomacromolecules</i> , 2001, 2, 65-69.	5.4	201
195	Critical Incorporation Concentration of Surfactants Added to Micellar Solutions of Hydrophobically Modified Polyelectrolytes of the Same Charge. <i>Langmuir</i> , 2001, 17, 2937-2941.	3.5	32
196	Using Rheology to Probe the Mechanism of Joint Lubrication: Polyelectrolyte/protein interactions in Synovial Fluid. <i>Materials Research Society Symposia Proceedings</i> , 2001, 711, 1.	0.1	3
197	Dynamic scaling approach to glass formation. <i>Physical Review E</i> , 2000, 61, 1783-1792.	2.1	91
198	Interactions among Hydrophobically Modified Polyelectrolytes and Surfactants of the Same Charge. <i>Langmuir</i> , 2000, 16, 2609-2614.	3.5	66

#	ARTICLE	IF	CITATIONS
199	A Dedication to John D. Ferry. <i>Journal of Rheology</i> , 2000, 44, 843-844.	2.6	0
200	Melt Rheology of Lower Critical Solution Temperature Polybutadiene/Polyisoprene Blends. <i>Macromolecules</i> , 2000, 33, 9732-9739.	4.8	70
201	Relaxation Behavior of Polymer Blends after the Cessation of Shear. <i>Macromolecules</i> , 2000, 33, 2486-2496.	4.8	37
202	Segmental dynamics of miscible polymer blends: Comparison of the predictions of a concentration fluctuation model to experiment. <i>Journal of Chemical Physics</i> , 1999, 111, 6121-6128.	3.0	105
203	Viscoelasticity of randomly branched polymers in the vulcanization class. <i>Physical Review E</i> , 1999, 60, 5657-5669.	2.1	79
204	Diagnosing long-chain branching in polyethylenes. <i>Journal of Molecular Structure</i> , 1999, 485-486, 569-583.	3.6	170
205	Effect of polymer architecture on self-diffusion of LC polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 405-414.	2.1	1
206	Semidilute solution rheology of polyelectrolytes with no added salt. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 3429-3437.	2.1	53
207	Polyelectrolyte Charge Effects on Solution Viscosity of Poly(acrylic acid). <i>Macromolecules</i> , 1999, 32, 2803-2805.	4.8	43
208	Role of Condensed Counterions in the Thermodynamics of Surfactant Micelle Formation with and without Oppositely Charged Polyelectrolytes. <i>Langmuir</i> , 1999, 15, 58-65.	3.5	98
209	Surface-Induced Ordering in Graft Copolymer Thin Films. <i>Langmuir</i> , 1999, 15, 2911-2915.	3.5	8
210	Dynamics in Miscible Blends of Polystyrene and Poly(vinyl methyl ether). <i>Macromolecules</i> , 1999, 32, 2553-2561.	4.8	132
211	Effect of sodium poly(styrene sulfonate) on thermoreversible gelation of gelatin. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 2287-2295.	2.1	1
212	Rheology of Sulfonated Polystyrene Solutions. <i>Macromolecules</i> , 1998, 31, 5746-5755.	4.8	186
213	Rheology of Miscible Blends: SAN and PMMA. <i>Macromolecules</i> , 1998, 31, 8988-8997.	4.8	96
214	Smectic rheology. <i>Rheologica Acta</i> , 1997, 36, 498-504.	2.4	54
215	Scaling analysis of the temperature dependence of intrinsic viscosity. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997, 35, 1989-1991.	2.1	6
216	Polyelectrolyte conductivity. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997, 35, 2951-2960.	2.1	70

#	ARTICLE	IF	CITATIONS
217	Dynamics in Blends of Long Polymers with Unentangled Short Chains. <i>Journal De Physique II</i> , 1997, 7, 93-105.	0.9	2
218	Scaling analysis of the temperature dependence of intrinsic viscosity. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997, 35, 1989-1991.	2.1	0
219	Conformations and Structures of Poly(oxyethylene) Melts from Molecular Dynamics Simulations and Small-Angle Neutron Scattering Experiments. <i>Macromolecules</i> , 1996, 29, 3462-3469.	4.8	165
220	Elastic Modulus and Equilibrium Swelling of Polyelectrolyte Gels. <i>Macromolecules</i> , 1996, 29, 398-406.	4.8	251
221	Block copolymer dynamics. <i>Current Opinion in Colloid and Interface Science</i> , 1996, 1, 454-465.	7.4	68
222	Perspective: Comments on "Some phenomenological consequences of the Doi-Edwards theory of viscoelasticity," by William W. Graessley, <i>J. Polym. Sci., Polym. Phys. Ed.</i> , 18, 27 (1980). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1996, 34, 2665-2666.	2.1	2
223	Concentration fluctuation induced dynamic heterogeneities in polymer blends. <i>Journal of Chemical Physics</i> , 1996, 105, 3777-3788.	3.0	211
224	Viscoelasticity of randomly branched polymers in the critical percolation class. <i>Physical Review E</i> , 1995, 52, 6271-6280.	2.1	70
225	Scaling Theory of Polyelectrolyte Solutions. <i>Macromolecules</i> , 1995, 28, 1859-1871.	4.8	834
226	Dynamics of Semidilute Polyelectrolyte Solutions. <i>Physical Review Letters</i> , 1994, 73, 2776-2779.	7.8	184
227	A survey of polyvinylphenol blend miscibility. <i>Journal of Applied Polymer Science</i> , 1994, 54, 991-1011.	2.6	46
228	Viscoelastic properties of a model main-chain liquid crystalline polyether. <i>Journal of Rheology</i> , 1994, 38, 1623-1638.	2.6	48
229	Investigating miscible polymer blend dynamics with optical and mechanical rheometry. <i>Journal of Non-Crystalline Solids</i> , 1994, 172-174, 668-673.	3.1	0
230	Measuring Component Contributions to the Dynamic Modulus in Miscible Polymer Blends. <i>Macromolecules</i> , 1994, 27, 6851-6860.	4.8	41
231	Network Modulus and Superelasticity. <i>Macromolecules</i> , 1994, 27, 3191-3198.	4.8	218
232	Component Dynamics in Miscible Blends of 1,4-Polyisoprene and 1,2-Polybutadiene. <i>Macromolecules</i> , 1994, 27, 6861-6870.	4.8	50
233	Elastic Modulus and Equilibrium Swelling of Near-Critical Gels. <i>Macromolecules</i> , 1994, 27, 3184-3190.	4.8	37
234	Hydrodynamics of polymer solutions via two-parameter scaling. <i>Journal De Physique II</i> , 1994, 4, 1299-1310.	0.9	25

#	ARTICLE	IF	CITATIONS
235	Linear viscoelasticity of side chain liquid crystal polymer. <i>Liquid Crystals</i> , 1993, 13, 233-245.	2.2	62
236	Miscibility in binary blends of poly(vinylphenol) and aromatic polyesters. <i>Macromolecules</i> , 1993, 26, 6299-6307.	4.8	43
237	Site-specific differences in the responses of guinea-pig adipose tissue to changes in the fatty acid composition of the diet. <i>Nutrition Research</i> , 1993, 13, 1203-1212.	2.9	12
238	Diffusion and melt viscosity of a main-chain liquid crystalline polyether. <i>Macromolecules</i> , 1993, 26, 3764-3771.	4.8	26
239	Dynamics of near-critical polymer gels. <i>Physical Review E</i> , 1993, 48, 3712-3716.	2.1	75
240	Reinforcement of rubber by fractal aggregates. <i>Journal De Physique II</i> , 1993, 3, 367-383.	0.9	148
241	Chain entanglement in polymer melts and solutions. <i>Macromolecules</i> , 1992, 25, 996-998.	4.8	73
242	Component relaxation dynamics in a miscible polymer blend: poly(ethylene oxide)/poly(methyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	4.8	107
243	Elastic modulus and equilibrium swelling of poly(dimethylsiloxane) networks. <i>Macromolecules</i> , 1992, 25, 5241-5251.	4.8	263
244	Scaling properties of branched polyesters. 2. Static scaling above the gel point. <i>Macromolecules</i> , 1992, 25, 7180-7187.	4.8	35
245	Lamellae orientation in dynamically sheared diblock copolymer melts. <i>Journal De Physique II</i> , 1992, 2, 1941-1959.	0.9	174
246	VISCOELASTICITY OF STRUCTURED FLUIDS. , 1992, , 519-521.		0
247	Constraint release in polymer melts: tube reorganization versus tube dilation. <i>Macromolecules</i> , 1991, 24, 3587-3596.	4.8	203
248	Effects of concentration and thermodynamic interaction on the viscoelastic properties of polymer solutions. <i>Macromolecules</i> , 1991, 24, 3873-3882.	4.8	188
249	Dynamics of reversible networks. <i>Macromolecules</i> , 1991, 24, 4701-4707.	4.8	614
250	Chemical Heterogeneity in Liquid-Crystalline Polyesters. <i>ACS Symposium Series</i> , 1990, , 220-240.	0.5	4
251	Two-parameter scaling for polymers in $\hat{\Gamma}$ solvents. <i>Macromolecules</i> , 1990, 23, 2753-2757.	4.8	333
252	Breakdown of time-temperature superposition in miscible polymer blends. <i>Polymer</i> , 1989, 30, 1275-1278.	3.8	215

#	ARTICLE	IF	CITATIONS
253	Self-consistent theory of polydisperse entangled polymers: Linear viscoelasticity of binary blends. Journal of Chemical Physics, 1988, 89, 5291-5306.	3.0	206
254	The melt viscosity-molecular weight relationship for linear polymers. Macromolecules, 1987, 20, 2226-2237.	4.8	350
255	Melting temperature of mixed microstructure polybutadiene. Macromolecules, 1986, 19, 1261-1262.	4.8	14