

Ronald G Larson

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197
papers

7,674
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43
h-index

81
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205
ext. papers

8,654
ext. citations

5.5
avg, IF

6.72
L-index

#	Paper	IF	Citations
197	The MARTINI Coarse-Grained Force Field: Extension to Proteins. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 819-34	6.4	1717
196	Nonadditivity of nanoparticle interactions. <i>Science</i> , 2015 , 350, 1242477	33.3	327
195	The rheology of dilute solutions of flexible polymers: Progress and problems. <i>Journal of Rheology</i> , 2005 , 49, 1-70	4.1	238
194	Transport and deposition patterns in drying sessile droplets. <i>AIChE Journal</i> , 2014 , 60, 1538-1571	3.6	215
193	Brownian dynamics simulations of single DNA molecules in shear flow. <i>Journal of Rheology</i> , 2000 , 44, 713-742	4.1	202
192	Coarse-grained molecular dynamics studies of the concentration and size dependence of fifth- and seventh-generation PAMAM dendrimers on pore formation in DMPC bilayer. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 7778-84	3.4	146
191	Modeling hydrodynamic interaction in Brownian dynamics: simulations of extensional flows of dilute solutions of DNA and polystyrene. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2003 , 113, 147-191	2.7	116
190	Molecular dynamics simulations of sodium dodecyl sulfate micelles in water-the effect of the force field. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 3864-80	3.4	111
189	A constitutive model for the prediction of ellipsoidal droplet shapes and stresses in immiscible blends. <i>Journal of Rheology</i> , 2000 , 44, 1055-1083	4.1	96
188	Brownian dynamics simulations of flexible polymers with spring-spring repulsions. <i>Journal of Chemical Physics</i> , 2001 , 114, 6937-6941	3.9	93
187	A review of thixotropy and its rheological modeling. <i>Journal of Rheology</i> , 2019 , 63, 477-501	4.1	91
186	Molecular dynamics simulations of threadlike cetyltrimethylammonium chloride micelles: effects of sodium chloride and sodium salicylate salts. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 13697-710	3.4	89
185	A hierarchical algorithm for predicting the linear viscoelastic properties of polymer melts with long-chain branching. <i>Rheologica Acta</i> , 2005 , 44, 319-330	2.3	87
184	The scaling of zero-shear viscosities of semidilute polymer solutions with concentration. <i>Journal of Rheology</i> , 2005 , 49, 1117-1128	4.1	86
183	pH and Salt Effects on the Associative Phase Separation of Oppositely Charged Polyelectrolytes. <i>Polymers</i> , 2014 , 6, 1414-1436	4.5	84
182	Tube Dilation and Reptation in Binary Blends of Monodisperse Linear Polymers. <i>Macromolecules</i> , 2004 , 37, 597-604	5.5	82
181	Constraint Release Effects in Monodisperse and Bidisperse Polystyrenes in Fast Transient Shearing Flows. <i>Macromolecules</i> , 2001 , 34, 5229-5237	5.5	82

180	The effect of steady flow fields on the isotropic-nematic phase transition of rigid rod-like polymers. <i>Journal of Chemical Physics</i> , 1990 , 92, 792-800	3.9	79
179	Re-shaping the coffee ring. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2546-8	16.4	77
178	A Molecular Thermodynamic Model of Complexation in Mixtures of Oppositely Charged Polyelectrolytes with Explicit Account of Charge Association/Dissociation. <i>Macromolecules</i> , 2016 , 49, 9706-9719	5.5	77
177	Rheological State Diagrams for Rough Colloids in Shear Flow. <i>Physical Review Letters</i> , 2017 , 119, 158001	7.4	75
176	Comparing tube models for predicting the linear rheology of branched polymer melts. <i>Journal of Rheology</i> , 2010 , 54, 223-260	4.1	75
175	DNA configurations and concentration in shearing flow near a glass surface in a microchannel. <i>Journal of Rheology</i> , 2005 , 49, 127-138	4.1	73
174	Direct Calculation of the Tube Potential Confining Entangled Polymers. <i>Macromolecules</i> , 2006 , 39, 6737-6743	5.43	69
173	Structure and Rheology of Molten Polymers 2018 ,		66
172	Primitive Path Identification and Statistics in Molecular Dynamics Simulations of Entangled Polymer Melts. <i>Macromolecules</i> , 2005 , 38, 5761-5765	5.5	64
171	Modeling the buildup of exponentially growing polyelectrolyte multilayer films. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 4232-41	3.4	62
170	Predicting the linear viscoelastic properties of monodisperse and polydisperse polystyrenes and polyethylenes. <i>Rheologica Acta</i> , 2001 , 40, 516-532	2.3	60
169	Fluid dynamics. Turbulence without inertia. <i>Nature</i> , 2000 , 405, 27-8	50.4	60
168	Coarse-grained molecular dynamics simulation of self-assembly and surface adsorption of ionic surfactants using an implicit water model. <i>Langmuir</i> , 2015 , 31, 1262-71	4	57
167	Molecular dynamics simulation of phase transitions in model lung surfactant monolayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 2450-65	3.8	55
166	Identification of Topological Constraints in Entangled Polymer Melts Using the Bond-Fluctuation Model. <i>Macromolecules</i> , 2006 , 39, 2413-2417	5.5	54
165	Brownian dynamics simulations of isolated polymer molecules in shear flow near adsorbing and nonadsorbing surfaces. <i>Journal of Rheology</i> , 2002 , 46, 831	4.1	54
164	Constitutive model that shows extension thickening for entangled solutions and extension thinning for melts. <i>Journal of Rheology</i> , 2014 , 58, 255-279	4.1	53
163	Combined Synthesis, TGIC Characterization, and Rheological Measurement and Prediction of Symmetric H Polybutadienes and Their Blends with Linear and Star-Shaped Polybutadienes. <i>Macromolecules</i> , 2011 , 44, 7799-7809	5.5	52

162	Modeling hydrodynamic interaction in Brownian dynamics: Simulations of extensional and shear flows of dilute solutions of high molecular weight polystyrene. <i>Journal of Rheology</i> , 2004 , 48, 995-1021	4.1	52
161	Adsorption of Plasma Proteins onto PEGylated Lipid Bilayers: The Effect of PEG Size and Grafting Density. <i>Biomacromolecules</i> , 2016 , 17, 1757-65	6.9	48
160	Direct Molecular Dynamics Simulation of Branch Point Motion in Asymmetric Star Polymer Melts. <i>Macromolecules</i> , 2007 , 40, 3443-3449	5.5	48
159	Dilution exponent in the dynamic dilution theory for polymer melts. <i>Journal of Rheology</i> , 2003 , 47, 199-211	4.1	48
158	Influence of weak elasticity of dispersed phase on droplet behavior in sheared polybutadiene/poly(dimethyl siloxane) blends. <i>Journal of Rheology</i> , 2003 , 47, 37-58	4.1	45
157	Assessing the efficiency of polymeric excipients by atomistic molecular dynamics simulations. <i>Molecular Pharmaceutics</i> , 2014 , 11, 1676-86	5.6	44
156	A Systematic Coarse-Grained Model for Methylcellulose Polymers: Spontaneous Ring Formation at Elevated Temperature. <i>Macromolecules</i> , 2016 , 49, 1490-1503	5.5	43
155	DNA molecular configurations in an evaporating droplet near a glass surface. <i>Journal of Rheology</i> , 2003 , 47, 1111-1132	4.1	43
154	Multiscale Modeling of the Effects of Salt and Perfume Raw Materials on the Rheological Properties of Commercial Threadlike Micellar Solutions. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 2468-2485	3.1	42
153	A mesoscopic simulation method for predicting the rheology of semi-dilute wormlike micellar solutions. <i>Journal of Rheology</i> , 2014 , 58, 681-721	4.1	42
152	Explicit- and Implicit-Solvent Molecular Dynamics Simulations of Complex Formation between Polycations and Polyanions. <i>Macromolecules</i> , 2009 , 42, 8851-8863	5.5	41
151	Universal Scaling of Linear and Nonlinear Rheological Properties of Semidilute and Concentrated Polymer Solutions. <i>Macromolecules</i> , 2008 , 41, 8903-8915	5.5	41
150	Relationship between Polyelectrolyte Bulk Complexation and Kinetics of Their Layer-by-Layer Assembly. <i>Macromolecules</i> , 2015 , 48, 400-409	5.5	39
149	Molecular dynamics simulations of structure-property relationships of Tween 80 surfactants in water and at interfaces. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 12907-18	3.4	38
148	Potentials of mean force and escape times of surfactants from micelles and hydrophobic surfaces using molecular dynamics simulations. <i>Langmuir</i> , 2015 , 31, 1336-43	4	38
147	Influence of dispersed-phase elasticity on steady-state deformation and breakup of droplets in simple shearing flow of immiscible polymer blends. <i>Journal of Rheology</i> , 2004 , 48, 843-862	4.1	37
146	A multimode structural kinetics constitutive equation for the transient rheology of thixotropic elasto-viscoplastic fluids. <i>Journal of Rheology</i> , 2018 , 62, 321-342	4.1	35
145	Constraint Release in Entangled Binary Blends of Linear Polymers: A Molecular Dynamics Study. <i>Macromolecules</i> , 2008 , 41, 4945-4960	5.5	35

144	Advances in modeling of polymer melt rheology. <i>AIChE Journal</i> , 2007 , 53, 542-548	3.6	34
143	Brownian dynamics simulations with stiff finitely extensible nonlinear elastic-Fraenkel springs as approximations to rods in bead-rod models. <i>Journal of Chemical Physics</i> , 2006 , 124, 044911	3.9	33
142	Role of electrostatic correlations in polyelectrolyte charge association. <i>Journal of Chemical Physics</i> , 2018 , 149, 163335	3.9	33
141	A Coarse-Grained Implicit Solvent Model for Poly(ethylene oxide), CnEm Surfactants, and Hydrophobically End-Capped Poly(ethylene oxide) and Its Application to Micelle Self-Assembly and Phase Behavior. <i>Macromolecules</i> , 2015 , 48, 7709-7718	5.5	32
140	Phase behavior of Janus colloids determined by sedimentation equilibrium. <i>Soft Matter</i> , 2014 , 10, 4593-602	3.9	32
139	Tumbling and Deformation of Isolated Polymer Chains in Shearing Flow. <i>Macromolecules</i> , 2012 , 45, 9493-9499	3.9	32
138	Multiple regimes of deformation in shearing flow of isolated polymers. <i>Journal of Rheology</i> , 2012 , 56, 305-332	4.1	32
137	Determining polymer molecular weight distributions from rheological properties using the dual-constraint model. <i>Rheologica Acta</i> , 2008 , 47, 689-700	2.3	32
136	Modeling the linear viscoelastic properties of metallocene-catalyzed high density polyethylenes with long-chain branching. <i>Journal of Rheology</i> , 2005 , 49, 523-536	4.1	32
135	Method for obtaining tube model parameters for commercial ethene/1-butene copolymers. <i>Journal of Rheology</i> , 2010 , 54, 393-406	4.1	31
134	Influence of elasticity on dispersed-phase droplet size in immiscible polymer blends in simple shearing flow. <i>Polymer Engineering and Science</i> , 2002 , 42, 798-809	2.3	31
133	Rich Janus colloid phase behavior under steady shear. <i>Soft Matter</i> , 2016 , 12, 4071-81	3.6	30
132	Anisotropic self-assembly and gelation in aqueous methylcellulose: theory and modeling. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 1624-1636	2.6	30
131	Prediction of coil-stretch hysteresis for dilute polystyrene molecules in extensional flow. <i>Journal of Rheology</i> , 2005 , 49, 1081-1089	4.1	29
130	Transitional pathway to elastic turbulence in torsional, parallel-plate flow of a polymer solution. <i>Journal of Fluid Mechanics</i> , 2006 , 554, 191	3.7	29
129	Comparison of Brownian Dynamics Simulations with Microscopic and Light-Scattering Measurements of Polymer Deformation under Flow. <i>Macromolecules</i> , 2000 , 33, 1411-1415	5.5	29
128	Binding kinetics of lock and key colloids. <i>Journal of Chemical Physics</i> , 2015 , 142, 174909	3.9	28
127	Comprehensive constitutive model for immiscible blends of Newtonian polymers. <i>Journal of Rheology</i> , 2004 , 48, 319-348	4.1	28

126	Assessing the Efficacy of Poly(N-isopropylacrylamide) for Drug Delivery Applications Using Molecular Dynamics Simulations. <i>Molecular Pharmaceutics</i> , 2017 , 14, 478-491	5.6	27
125	From well-entangled to partially-entangled wormlike micelles. <i>Soft Matter</i> , 2019 , 15, 642-655	3.6	27
124	Determination of characteristic lengths and times for wormlike micelle solutions from rheology using a mesoscopic simulation method. <i>Journal of Rheology</i> , 2015 , 59, 903-934	4.1	27
123	Fracture phenomena in shearing flow of viscous liquids. <i>Rheologica Acta</i> , 1997 , 36, 579-584	2.3	27
122	Brownian Dynamics Modeling of Flow-Induced Birefringence and Chain Scission in Dilute Polymer Solutions in a Planar Cross-Slot Flow. <i>Macromolecules</i> , 2005 , 38, 1456-1468	5.5	26
121	Quantitative nonlinear thixotropic model with stretched exponential response in transient shear flows. <i>Journal of Rheology</i> , 2016 , 60, 1301-1315	4.1	26
120	Mechanism of Wax Deposition on Cold Surfaces: Gelation and Deposit Aging. <i>Energy & Fuels</i> , 2019 , 33, 3776-3786	4.1	26
119	Challenging Tube and Slip-Link Models: Predicting the Linear Rheology of Blends of Well-Characterized Star and Linear 1,4-Polybutadienes. <i>Macromolecules</i> , 2016 , 49, 4964-4977	5.5	25
118	Universal Relaxation Behavior of Entangled 1,4-Polybutadiene Melts in the Transition Frequency Region. <i>Macromolecules</i> , 2015 , 48, 4122-4131	5.5	25
117	Analysis of solvation and gelation behavior of methylcellulose using atomistic molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 13992-4008	3.4	25
116	Looking inside the entanglement tube using molecular dynamics simulations. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 3240-3248	2.6	25
115	Lattice Monte Carlo Simulations of Dilute Mixed Micelles. <i>Langmuir</i> , 2003 , 19, 10434-10442	4	23
114	The lengths of thread-like micelles inferred from rheology. <i>Journal of Rheology</i> , 2012 , 56, 1363-1374	4.1	22
113	An Explanation for the High-Frequency Elastic Response of Dilute Polymer Solutions. <i>Macromolecules</i> , 2004 , 37, 5110-5114	5.5	22
112	Modeling the Hydrophobicity of Nanoparticles and Their Interaction with Lipids and Proteins. <i>Langmuir</i> , 2016 , 32, 13084-13094	4	21
111	Reversible and Irreversible Adsorption Energetics of Poly(ethylene glycol) and Sorbitan Poly(ethoxylate) at a Water/Alkane Interface. <i>Langmuir</i> , 2015 , 31, 7503-11	4	20
110	Scission Free Energies for Wormlike Surfactant Micelles: Development of a Simulation Protocol, Application, and Validation for Personal Care Formulations. <i>Langmuir</i> , 2018 , 34, 1564-1573	4	19
109	Systematic Coarse-Graining of the Dynamics of Self-Attractive Semiflexible Polymers. <i>Macromolecules</i> , 2014 , 47, 1494-1502	5.5	19

108	How accurate are stochastic rotation dynamics simulations of polymer dynamics?. <i>Journal of Rheology</i> , 2013 , 57, 1177-1194	4.1	19
107	Brownian dynamics simulations of single polymer chains with and without self-entanglements in theta and good solvents under imposed flow fields. <i>Journal of Rheology</i> , 2010 , 54, 1061-1081	4.1	19
106	Dissipative particle dynamics simulation of dilute polymer solutionsInertial effects and hydrodynamic interactions. <i>Journal of Rheology</i> , 2014 , 58, 1039-1058	4.1	18
105	The origin of stress-oscillation damping during startup and reversal of torsional shearing of nematics. <i>Rheologica Acta</i> , 1997 , 36, 485-497	2.3	18
104	Effect of Branch Point Position on the Linear Rheology of Asymmetric Star Polymers. <i>Macromolecules</i> , 2008 , 41, 6871-6872	5.5	18
103	Using spring repulsions to model entanglement interactions in Brownian dynamics simulations of bead-spring chains. <i>Rheologica Acta</i> , 2008 , 47, 3-17	2.3	18
102	Computational Modeling of Hydroxypropyl-Methylcellulose Acetate Succinate (HPMCAS) and Phenytoin Interactions: A Systematic Coarse-Graining Approach. <i>Molecular Pharmaceutics</i> , 2017 , 14, 733-745	5.6	17
101	Modeling the Adsorption of Rheology Modifiers onto Latex Particles Using Coarse-Grained Molecular Dynamics (CG-MD) and Self-Consistent Field Theory (SCFT). <i>Macromolecules</i> , 2015 , 48, 8045-8054	5.5	17
100	Principles for coarse-graining polymer molecules in simulations of polymer fluid mechanics. <i>Molecular Physics</i> , 2004 , 102, 341-351	1.7	17
99	Direct All-Atom Molecular Dynamics Simulations of the Effects of Short Chain Branching on Polyethylene Oligomer Crystal Nucleation. <i>Macromolecules</i> , 2018 , 51, 4762-4769	5.5	17
98	Nonlinear elastic behavior and anisotropic electronic properties of two-dimensional borophene. <i>Journal of Applied Physics</i> , 2019 , 125, 145107	2.5	16
97	Coarse-grained modeling of crystal growth and polymorphism of a model pharmaceutical molecule. <i>Soft Matter</i> , 2016 , 12, 8246-8255	3.6	16
96	Nonmonotonic Scission and Branching Free Energies as Functions of Hydrotrope Concentration for Charged Micelles. <i>Physical Review Letters</i> , 2018 , 121, 038001	7.4	16
95	Dynamics of vorticity stretching and breakup of isolated viscoelastic droplets in an immiscible viscoelastic matrix. <i>Rheologica Acta</i> , 2004 , 43, 246-256	2.3	16
94	Analysis of Partitioning of Salt through Doping of Polyelectrolyte Complex Coacervates. <i>Macromolecules</i> , 2020 , 53, 6928-6945	5.5	16
93	Molecular View of Polymer/Water Interfaces in Latex Paint. <i>Macromolecules</i> , 2014 , 47, 6441-6452	5.5	15
92	Time-dependent shear rate inhomogeneities and shear bands in a thixotropic yield-stress fluid under transient shear. <i>Soft Matter</i> , 2019 , 15, 7956-7967	3.6	15
91	A framework for multi-scale simulation of crystal growth in the presence of polymers. <i>Soft Matter</i> , 2017 , 13, 1904-1913	3.6	14

90	Injectable drug depot engineered to release multiple ophthalmic therapeutic agents with precise time profiles for postoperative treatment following ocular surgery. <i>Acta Biomaterialia</i> , 2018 , 73, 90-102	10.8	14
89	Efficient estimation of binding free energies between peptides and an MHC class II molecule using coarse-grained molecular dynamics simulations with a weighted histogram analysis method. <i>Journal of Computational Chemistry</i> , 2017 , 38, 2007-2019	3.5	14
88	DNA molecular configurations in flows near adsorbing and nonadsorbing surfaces. <i>Rheologica Acta</i> , 2004 , 44, 38-46	2.3	14
87	Salt- and pH-induced swelling of a poly(acrylic acid) brush via quartz crystal microbalance w/dissipation (QCM-D). <i>Soft Matter</i> , 2019 , 15, 7838-7851	3.6	13
86	Effect of Surface Charge and Hydrophobicity on Phospholipid-Nanoparticle Corona Formation: A Molecular Dynamics Simulation Study. <i>Colloids and Interface Science Communications</i> , 2018 , 25, 7-11	5.4	13
85	A metastable nematic precursor accelerates polyethylene oligomer crystallization as determined by atomistic simulations and self-consistent field theory. <i>Journal of Chemical Physics</i> , 2019 , 150, 244903	3.9	13
84	Molecular Imaging of Shear-Induced Polymer Migration in Dilute Solutions near a Surface. <i>Macromolecules</i> , 2007 , 40, 8490-8499	5.5	13
83	Biophysics. Going with the flow. <i>Science</i> , 2007 , 318, 57-8	33.3	13
82	Nucleation of urea from aqueous solution: Structure, critical size, and rate. <i>Journal of Chemical Physics</i> , 2017 , 146, 134501	3.9	12
81	Multiscale Molecular Dynamics Simulations of Model Hydrophobically Modified Ethylene Oxide Urethane Micelles. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 12540-51	3.4	12
80	Inertio-capillary cross-streamline drift of droplets in Poiseuille flow using dissipative particle dynamics simulations. <i>Soft Matter</i> , 2018 , 14, 2267-2280	3.6	12
79	A unified multicomponent stress-diffusion model of drug release from non-biodegradable polymeric matrix tablets. <i>Journal of Controlled Release</i> , 2016 , 224, 43-58	11.7	12
78	Role of electrostatic interactions in charge regulation of weakly dissociating polyacids. <i>Progress in Polymer Science</i> , 2021 , 112, 101322	29.6	12
77	Coarse-grained molecular dynamics simulation of tethered lipid assemblies. <i>Soft Matter</i> , 2013 , 9, 480-486	6.6	11
76	Concentration Dependence of Shear-Induced Polymer Migration in DNA Solutions near a Surface. <i>Macromolecules</i> , 2007 , 40, 8784-8787	5.5	11
75	Elongation thinning and morphology deformation of nanoparticle-filled polypropylene/polystyrene blends in elongational flow. <i>Journal of Rheology</i> , 2018 , 62, 11-23	4.1	11
74	Multiscale Computational Modeling of the Nanostructure of Solid Dispersions of Hydroxypropyl Methylcellulose Acetate Succinate (HPMCAS) and Phenytoin. <i>Molecular Pharmaceutics</i> , 2017 , 14, 3422-3435	5.6	10
73	Materials science. Predicting the flow of real polymers. <i>Science</i> , 2011 , 333, 1834-5	33.3	10

72	A Mean Flow Model for Polymer and Fiber Turbulent Drag Reduction. <i>Applied Rheology</i> , 2005 , 15, 370-380	2	10
71	A nonlinear kinetic-rheology model for reversible scission and deformation of unentangled wormlike micelles. <i>Journal of Rheology</i> , 2018 , 62, 1419-1427	4.1	10
70	Unraveling Dynamics of Entangled Polymers in Strong Extensional Flows. <i>Macromolecules</i> , 2019 , 52, 1296-1307	5.1	9
69	Characterizing the rheology, slip, and velocity profiles of lamellar gel networks. <i>Journal of Rheology</i> , 2020 , 64, 851-862	4.1	9
68	Multiple relaxation modes in suspensions of colloidal particles bridged by telechelic polymers. <i>Journal of Rheology</i> , 2018 , 62, 477-490	4.1	9
67	Kinetic modeling and design of colloidal lock and key assembly. <i>Journal of Colloid and Interface Science</i> , 2016 , 463, 242-57	9.3	9
66	Complex Protein Patterns in Drying Droplets. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1273, 30101		9
65	Implications of microscopic simulations of polymer melts for mean-field tube theories. <i>Molecular Physics</i> , 2007 , 105, 249-260	1.7	9
64	A molecular dynamics simulation of the structure of sodium lauryl ether sulfate and poly(vinyl alcohol) at the air/water interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 563, 84-94	5.1	9
63	Linear viscoelasticity and time-temperature-salt and other superpositions in polyelectrolyte coacervates. <i>Journal of Rheology</i> , 2021 , 65, 77-102	4.1	9
62	A novel hybrid population balance-Brownian dynamics method for simulating the dynamics of polymer-bridged colloidal latex particle suspensions. <i>Journal of Rheology</i> , 2018 , 62, 235-247	4.1	9
61	Modeling Intercolloidal Interactions Induced by Adsorption of Mobile Telechelic Polymers onto Particle Surfaces. <i>Macromolecules</i> , 2019 , 52, 5357-5365	5.5	8
60	Effects of excluded volume and hydrodynamic interactions on the behavior of isolated bead-rod polymer chains in shearing flow. <i>AIChE Journal</i> , 2014 , 60, 1400-1412	3.6	8
59	Effects of Bending and Torsional Potentials on High-Frequency Viscoelasticity of Dilute Polymer Solutions. <i>Macromolecules</i> , 2008 , 41, 3692-3700	5.5	8
58	Stress-gradient-induced polymer migration: Perturbation theory and comparisons to stochastic simulations. <i>Journal of Rheology</i> , 2016 , 60, 327-343	4.1	8
57	Stretch and Breakage of Wormlike Micelles under Uniaxial Strain: A Simulation Study and Comparison with Experimental Results. <i>Langmuir</i> , 2018 , 34, 12600-12608	4	8
56	Letter to the Editor: Modeling the nonmonotonic time-dependence of viscosity bifurcation in thixotropic yield-stress fluids. <i>Journal of Rheology</i> , 2019 , 63, 673-675	4.1	7
55	Bridging Dynamics of Telechelic Polymers between Solid Surfaces. <i>Macromolecules</i> , 2018 , 51, 2125-2137	5.5	7

54	Rotator-to-Lamellar Phase Transition in Janus Colloids Driven by Pressure Anisotropy. <i>Physical Review Letters</i> , 2016 , 117, 128001	7.4	7
53	The effect of wall depletion and hydrodynamic interactions on stress-gradient-induced polymer migration. <i>Soft Matter</i> , 2016 , 12, 5883-97	3.6	7
52	Assessment of mesoscopic particle-based methods in microfluidic geometries. <i>Journal of Chemical Physics</i> , 2013 , 139, 084109	3.9	7
51	Growth Kinetics in Layer-by-Layer Assemblies of Organic Nanoparticles and Polyelectrolytes. <i>ChemPhysChem</i> , 2017 , 18, 128-141	3.2	7
50	Effect of Flow-Induced Nematic Order on Polyethylene Crystal Nucleation. <i>Macromolecules</i> , 2020 , 53, 7650-7657	5.5	7
49	A hybrid Brownian dynamics/constitutive model for yielding, aging, and rejuvenation in deforming polymeric glasses. <i>Soft Matter</i> , 2016 , 12, 6757-70	3.6	7
48	Tension-Induced Nematic Phase Separation in Bidisperse Homopolymer Melts. <i>ACS Central Science</i> , 2018 , 4, 1545-1550	16.8	7
47	Determining threadlike micelle lengths from rheometry. <i>Journal of Rheology</i> , 2021 , 65, 59-71	4.1	7
46	Inertial migration of neutrally buoyant prolate and oblate spheroids in plane Poiseuille flow using dissipative particle dynamics simulations. <i>Computational Materials Science</i> , 2019 , 162, 178-185	3.2	6
45	Determining the Dilution Exponent for Entangled 1,4-Polybutadienes Using Blends of Near-Monodisperse Star with Unentangled, Low Molecular Weight Linear Polymers. <i>Macromolecules</i> , 2019 , 52, 1757-1771	5.5	6
44	Brownian dynamics simulations of coagulation of dilute uniform and anisotropic particles under shear flow spanning low to high Peclet numbers. <i>Journal of Chemical Physics</i> , 2015 , 142, 024108	3.9	6
43	Concentration, salt and temperature dependence of strain hardening of step shear in CTAB/NaSal surfactant solutions. <i>Journal of Rheology</i> , 2017 , 61, 967-977	4.1	6
42	Overcharging of polyelectrolyte complexes: an entropic phenomenon. <i>Soft Matter</i> , 2020 , 16, 10640-10656	3.6	6
41	A slip-spring simulation model for predicting linear and nonlinear rheology of entangled wormlike micellar solutions. <i>Journal of Rheology</i> , 2020 , 64, 1045-1061	4.1	6
40	An experimentally validated heat and mass transfer model for wax deposition from flowing oil onto a cold surface. <i>AIChE Journal</i> , 2021 , 67, e17063	3.6	6
39	Slip-Spring and Kink Dynamics Models for Fast Extensional Flow of Entangled Polymeric Fluids. <i>Polymers</i> , 2019 , 11,	4.5	5
38	Search for the Source of an Apparent Interfacial Resistance To Mass Transfer of CnEm Surfactants To the Water/Oil Interface. <i>Langmuir</i> , 2019 , 35, 2898-2908	4	5
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