

Ronald G Larson

List of Publications by Year in descending order

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199
papers

9,618
citations

44069

48
h-index

46799

89
g-index

205
all docs

205
docs citations

205
times ranked

9429
citing authors

#	ARTICLE	IF	CITATIONS
1	The MARTINI Coarse-Grained Force Field: Extension to Proteins. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 819-834.	5.3	2,178
2	Nonadditivity of nanoparticle interactions. <i>Science</i> , 2015, 350, 1242477.	12.6	403
3	Transport and deposition patterns in drying sessile droplets. <i>AIChE Journal</i> , 2014, 60, 1538-1571.	3.6	288
4	The rheology of dilute solutions of flexible polymers: Progress and problems. <i>Journal of Rheology</i> , 2005, 49, 1-70.	2.6	269
5	Brownian dynamics simulations of single DNA molecules in shear flow. <i>Journal of Rheology</i> , 2000, 44, 713-742.	2.6	212
6	A review of thixotropy and its rheological modeling. <i>Journal of Rheology</i> , 2019, 63, 477-501.	2.6	183
7	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, 7778-7784.	2.6	155
8	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, 3864-3880.	2.6	136
9	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.	2.4	131
10	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.	4.8	112
11	pH and Salt Effects on the Associative Phase Separation of Oppositely Charged Polyelectrolytes. <i>Polymers</i> , 2014, 6, 1414-1436.	4.5	111
12	Brownian dynamics simulations of flexible polymers with spring—spring repulsions. <i>Journal of Chemical Physics</i> , 2001, 114, 6937-6941.	3.0	110
13	A constitutive model for the prediction of ellipsoidal droplet shapes and stresses in immiscible blends. <i>Journal of Rheology</i> , 2000, 44, 1055-1083.	2.6	105
14	A hierarchical algorithm for predicting the linear viscoelastic properties of polymer melts with long-chain branching. <i>Rheologica Acta</i> , 2005, 44, 319-330.	2.4	103
15	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, 13697-13710.	2.6	101
16	Re—Shaping the Coffee Ring. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2546-2548.	13.8	95
17	Tube Dilation and Reptation in Binary Blends of Monodisperse Linear Polymers. <i>Macromolecules</i> , 2004, 37, 597-604.	4.8	93
18	Rheological State Diagrams for Rough Colloids in Shear Flow. <i>Physical Review Letters</i> , 2017, 119, 158001.	7.8	93

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19	The scaling of zero-shear viscosities of semidilute polymer solutions with concentration. <i>Journal of Rheology</i> , 2005, 49, 1117-1128.	2.6	91
20	Constraint Release Effects in Monodisperse and Bidisperse Polystyrenes in Fast Transient Shearing Flows. <i>Macromolecules</i> , 2001, 34, 5229-5237.	4.8	89
21	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.	3.0	87
22	Comparing tube models for predicting the linear rheology of branched polymer melts. <i>Journal of Rheology</i> , 2010, 54, 223-260.	2.6	85
23	Turbulence without inertia. <i>Nature</i> , 2000, 405, 27-28.	27.8	79
24	Primitive Path Identification and Statistics in Molecular Dynamics Simulations of Entangled Polymer Melts. <i>Macromolecules</i> , 2005, 38, 5761-5765.	4.8	75
25	DNA configurations and concentration in shearing flow near a glass surface in a microchannel. <i>Journal of Rheology</i> , 2005, 49, 127-138.	2.6	75
26	Coarse-Grained Molecular Dynamics Simulation of Self-Assembly and Surface Adsorption of Ionic Surfactants Using an Implicit Water Model. <i>Langmuir</i> , 2015, 31, 1262-1271.	3.5	75
27	Adsorption of Plasma Proteins onto PEGylated Lipid Bilayers: The Effect of PEG Size and Grafting Density. <i>Biomacromolecules</i> , 2016, 17, 1757-1765.	5.4	75
28	Direct Calculation of the Tube Potential Confining Entangled Polymers. <i>Macromolecules</i> , 2006, 39, 6737-6743.	4.8	72
29	Predicting the linear viscoelastic properties of monodisperse and polydisperse polystyrenes and polyethylenes. <i>Rheologica Acta</i> , 2001, 40, 516-532.	2.4	71
30	Modeling the Buildup of Exponentially Growing Polyelectrolyte Multilayer Films. <i>Journal of Physical Chemistry B</i> , 2009, 113, 4232-4241.	2.6	68
31	Twenty years of drying droplets. <i>Nature</i> , 2017, 550, 466-467.	27.8	68
32	Molecular dynamics simulation of phase transitions in model lung surfactant monolayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2450-2465.	2.6	65
33	A multimode structural kinetics constitutive equation for the transient rheology of thixotropic elasto-viscoplastic fluids. <i>Journal of Rheology</i> , 2018, 62, 321-342.	2.6	64
34	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.	2.6	62
35	Identification of Topological Constraints in Entangled Polymer Melts Using the Bond-Fluctuation Model. <i>Macromolecules</i> , 2006, 39, 2413-2417.	4.8	62
36	Constitutive model that shows extension thickening for entangled solutions and extension thinning for melts. <i>Journal of Rheology</i> , 2014, 58, 255-279.	2.6	61

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37	Relationship between Polyelectrolyte Bulk Complexation and Kinetics of Their Layer-by-Layer Assembly. <i>Macromolecules</i> , 2015, 48, 400-409.	4.8	61
38	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.	4.8	59
39	A mesoscopic simulation method for predicting the rheology of semi-dilute wormlike micellar solutions. <i>Journal of Rheology</i> , 2014, 58, 681-721.	2.6	59
40	Brownian dynamics simulations of isolated polymer molecules in shear flow near adsorbing and nonadsorbing surfaces. <i>Journal of Rheology</i> , 2002, 46, 831.	2.6	57
41	Direct Molecular Dynamics Simulation of Branch Point Motion in Asymmetric Star Polymer Melts. <i>Macromolecules</i> , 2007, 40, 3443-3449.	4.8	54
42	Potentials of Mean Force and Escape Times of Surfactants from Micelles and Hydrophobic Surfaces Using Molecular Dynamics Simulations. <i>Langmuir</i> , 2015, 31, 1336-1343.	3.5	54
43	Dilution exponent in the dynamic dilution theory for polymer melts. <i>Journal of Rheology</i> , 2003, 47, 199-211.	2.6	52
44	DNA molecular configurations in an evaporating droplet near a glass surface. <i>Journal of Rheology</i> , 2003, 47, 1111-1132.	2.6	51
45	Assessing the Efficiency of Polymeric Excipients by Atomistic Molecular Dynamics Simulations. <i>Molecular Pharmaceutics</i> , 2014, 11, 1676-1686.	4.6	51
46	Role of electrostatic correlations in polyelectrolyte charge association. <i>Journal of Chemical Physics</i> , 2018, 149, 163335.	3.0	51
47	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.	2.6	50
48	A Systematic Coarse-Grained Model for Methylcellulose Polymers: Spontaneous Ring Formation at Elevated Temperature. <i>Macromolecules</i> , 2016, 49, 1490-1503.	4.8	50
49	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.	2.6	50
50	Universal Scaling of Linear and Nonlinear Rheological Properties of Semidilute and Concentrated Polymer Solutions. <i>Macromolecules</i> , 2008, 41, 8903-8915.	4.8	47
51	Explicit- and Implicit-Solvent Molecular Dynamics Simulations of Complex Formation between Polycations and Polyanions. <i>Macromolecules</i> , 2009, 42, 8851-8863.	4.8	47
52	Mechanism of Wax Deposition on Cold Surfaces: Gelation and Deposit Aging. <i>Energy & Fuels</i> , 2019, 33, 3776-3786.	5.1	45
53	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, 12907-12918.	2.6	44
54	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.	4.8	43

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55	From well-entangled to partially-entangled wormlike micelles. <i>Soft Matter</i> , 2019, 15, 642-655.	2.7	42
56	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.	3.1	40
57	Constraint Release in Entangled Binary Blends of Linear Polymers: A Molecular Dynamics Study. <i>Macromolecules</i> , 2008, 41, 4945-4960.	4.8	40
58	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.	2.6	39
59	Tumbling and Deformation of Isolated Polymer Chains in Shearing Flow. <i>Macromolecules</i> , 2012, 45, 9493-9499.	4.8	39
60	Multiple regimes of deformation in shearing flow of isolated polymers. <i>Journal of Rheology</i> , 2012, 56, 305-332.	2.6	39
61	Quantitative nonlinear thixotropic model with stretched exponential response in transient shear flows. <i>Journal of Rheology</i> , 2016, 60, 1301-1315.	2.6	39
62	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.	3.0	38
63	Determining polymer molecular weight distributions from rheological properties using the dual-constraint model. <i>Rheologica Acta</i> , 2008, 47, 689-700.	2.4	38
64	Modeling the linear viscoelastic properties of metallocene-catalyzed high density polyethylenes with long-chain branching. <i>Journal of Rheology</i> , 2005, 49, 523-536.	2.6	37
65	Phase behavior of Janus colloids determined by sedimentation equilibrium. <i>Soft Matter</i> , 2014, 10, 4593-4602.	2.7	37
66	A Coarse-Grained Implicit Solvent Model for Poly(ethylene oxide), $\text{C}_{18}\text{E}_{10}$ 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.	4.8	37
67	Advances in modeling of polymer melt rheology. <i>AIChE Journal</i> , 2007, 53, 542-548.	3.6	36
68	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.	2.6	36
69	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.	2.1	36
70	Assessing the Efficacy of Poly(N -isopropylacrylamide) for Drug Delivery Applications Using Molecular Dynamics Simulations. <i>Molecular Pharmaceutics</i> , 2017, 14, 478-491.	4.6	36
71	Rich Janus colloid phase behavior under steady shear. <i>Soft Matter</i> , 2016, 12, 4071-4081.	2.7	35
72	Analysis of Solvation and Gelation Behavior of Methylcellulose Using Atomistic Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2014, 118, 13992-14008.	2.6	34

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73	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.	4.8	34
74	Transitional pathway to elastic turbulence in torsional, parallel-plate flow of a polymer solution. <i>Journal of Fluid Mechanics</i> , 2006, 554, 191.	3.4	33
75	Method for obtaining tube model parameters for commercial ethene/1-oolefin copolymers. <i>Journal of Rheology</i> , 2010, 54, 393-406.	2.6	32
76	Fracture phenomena in shearing flow of viscous liquids. <i>Rheologica Acta</i> , 1997, 36, 579-584.	2.4	31
77	Comprehensive constitutive model for immiscible blends of Newtonian polymers. <i>Journal of Rheology</i> , 2004, 48, 319-348.	2.6	31
78	Prediction of coil-stretch hysteresis for dilute polystyrene molecules in extensional flow. <i>Journal of Rheology</i> , 2005, 49, 1081-1089.	2.6	31
79	Comparison of Brownian Dynamics Simulations with Microscopic and Light-Scattering Measurements of Polymer Deformation under Flow. <i>Macromolecules</i> , 2000, 33, 1411-1415.	4.8	30
80	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.	4.8	30
81	Reversible and Irreversible Adsorption Energetics of Poly(ethylene glycol) and Sorbitan Poly(ethoxylate) at a Water/Alkane Interface. <i>Langmuir</i> , 2015, 31, 7503-7511.	3.5	30
82	Binding kinetics of lock and key colloids. <i>Journal of Chemical Physics</i> , 2015, 142, 174909.	3.0	28
83	Universal Relaxation Behavior of Entangled 1,4-Polybutadiene Melts in the Transition Frequency Region. <i>Macromolecules</i> , 2015, 48, 4122-4131.	4.8	28
84	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.	8.3	28
85	Looking inside the entanglement tube using molecular dynamics simulations. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 3240-3248.	2.1	27
86	Role of electrostatic interactions in charge regulation of weakly dissociating polyacids. <i>Progress in Polymer Science</i> , 2021, 112, 101322.	24.7	27
87	The lengths of thread-like micelles inferred from rheology. <i>Journal of Rheology</i> , 2012, 56, 1363-1374.	2.6	26
88	Linear viscoelasticity and time-temperature-salt and other superpositions in polyelectrolyte coacervates. <i>Journal of Rheology</i> , 2021, 65, 77-102.	2.6	26
89	Analysis of Partitioning of Salt through Doping of Polyelectrolyte Complex Coacervates. <i>Macromolecules</i> , 2020, 53, 6928-6945.	4.8	25
90	Lattice Monte Carlo Simulations of Dilute Mixed Micelles. <i>Langmuir</i> , 2003, 19, 10434-10442.	3.5	24

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91	An Explanation for the High-Frequency Elastic Response of Dilute Polymer Solutions. <i>Macromolecules</i> , 2004, 37, 5110-5114.	4.8	24
92	Modeling the Hydrophobicity of Nanoparticles and Their Interaction with Lipids and Proteins. <i>Langmuir</i> , 2016, 32, 13084-13094.	3.5	24
93	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.	3.5	24
94	Salt- and pH-induced swelling of a poly(acrylic acid) brush <i>via</i> quartz crystal microbalance w/dissipation (QCM-D). <i>Soft Matter</i> , 2019, 15, 7838-7851.	2.7	24
95	Effect of Flow-Induced Nematic Order on Polyethylene Crystal Nucleation. <i>Macromolecules</i> , 2020, 53, 7650-7657.	4.8	24
96	Dissipative particle dynamics simulation of dilute polymer solutionsâ€™Inertial effects and hydrodynamic interactions. <i>Journal of Rheology</i> , 2014, 58, 1039-1058.	2.6	23
97	Nonlinear elastic behavior and anisotropic electronic properties of two-dimensional borophene. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	23
98	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.	4.8	22
99	Computational Modeling of Hydroxypropyl-Methylcellulose Acetate Succinate (HPMCAS) and Phenytoin Interactions: A Systematic Coarse-Graining Approach. <i>Molecular Pharmaceutics</i> , 2017, 14, 733-745.	4.6	22
100	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.	3.0	22
101	Associative thickeners for waterborne paints: Structure, characterization, rheology, and modeling. <i>Progress in Polymer Science</i> , 2022, 129, 101546.	24.7	22
102	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.	2.6	21
103	How accurate are stochastic rotation dynamics simulations of polymer dynamics?. <i>Journal of Rheology</i> , 2013, 57, 1177-1194.	2.6	21
104	Using spring repulsions to model entanglement interactions in Brownian dynamics simulations of beadâ€™spring chains. <i>Rheologica Acta</i> , 2008, 47, 3-17.	2.4	20
105	Systematic Coarse-Graining of the Dynamics of Self-Attractive Semiflexible Polymers. <i>Macromolecules</i> , 2014, 47, 1494-1502.	4.8	20
106	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.	2.7	20
107	The origin of stress-oscillation damping during startup and reversal of torsional shearing of nematics. <i>Rheologica Acta</i> , 1997, 36, 485-497.	2.4	19
108	Effect of Branch Point Position on the Linear Rheology of Asymmetric Star Polymers. <i>Macromolecules</i> , 2008, 41, 6871-6872.	4.8	19

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109	Dynamics of vorticity stretching and breakup of isolated viscoelastic droplets in an immiscible viscoelastic matrix. <i>Rheologica Acta</i> , 2004, 43, 246-256.	2.4	18
110	Molecular View of Polymer/Water Interfaces in Latex Paint. <i>Macromolecules</i> , 2014, 47, 6441-6452.	4.8	18
111	Coarse-grained modeling of crystal growth and polymorphism of a model pharmaceutical molecule. <i>Soft Matter</i> , 2016, 12, 8246-8255.	2.7	18
112	Nucleation of urea from aqueous solution: Structure, critical size, and rate. <i>Journal of Chemical Physics</i> , 2017, 146, 134501.	3.0	18
113	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.	4.1	18
114	Nonmonotonic Scission and Branching Free Energies as Functions of Hydrotrope Concentration for Charged Micelles. <i>Physical Review Letters</i> , 2018, 121, 038001.	7.8	18
115	Principles for coarse-graining polymer molecules in simulations of polymer fluid mechanics. <i>Molecular Physics</i> , 2004, 102, 341-351.	1.7	17
116	A molecular dynamics simulation of the structure of sodium lauryl ether sulfate and poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Aspects, 2019, 563, 84-94.	4.7	17
117	Coarse-grained molecular dynamics simulation of tethered lipid assemblies. <i>Soft Matter</i> , 2013, 9, 480-486.	2.7	16
118	A framework for multi-scale simulation of crystal growth in the presence of polymers. <i>Soft Matter</i> , 2017, 13, 1904-1913.	2.7	16
119	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.	3.3	16
120	Characterizing the rheology, slip, and velocity profiles of lamellar gel networks. <i>Journal of Rheology</i> , 2020, 64, 851-862.	2.6	16
121	Overcharging of polyelectrolyte complexes: an entropic phenomenon. <i>Soft Matter</i> , 2020, 16, 10640-10656.	2.7	15
122	DNA molecular configurations in flows near adsorbing and nonadsorbing surfaces. <i>Rheologica Acta</i> , 2004, 44, 38-46.	2.4	14
123	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	14
124	Multiscale Molecular Dynamics Simulations of Model Hydrophobically Modified Ethylene Oxide Urethane Micelles. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12540-12551.	2.6	14
125	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.	4.6	14
126	Molecular Imaging of Shear-Induced Polymer Migration in Dilute Solutions near a Surface. <i>Macromolecules</i> , 2007, 40, 8490-8499.	4.8	13

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127	Going with the Flow. <i>Science</i> , 2007, 318, 57-58.	12.6	13
128	Multiple relaxation modes in suspensions of colloidal particles bridged by telechelic polymers. <i>Journal of Rheology</i> , 2018, 62, 477-490.	2.6	13
129	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.	2.6	13
130	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.	2.6	13
131	Determining threadlike micelle lengths from rheometry. <i>Journal of Rheology</i> , 2021, 65, 59-71.	2.6	13
132	A Mean Flow Model for Polymer and Fiber Turbulent Drag Reduction. <i>Applied Rheology</i> , 2005, 15, 370-389.	5.2	12
133	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.	9.9	12
134	Inertio-capillary cross-streamline drift of droplets in Poiseuille flow using dissipative particle dynamics simulations. <i>Soft Matter</i> , 2018, 14, 2267-2280.	2.7	12
135	A nonlinear kinetic-rheology model for reversible scission and deformation of unentangled wormlike micelles. <i>Journal of Rheology</i> , 2018, 62, 1419-1427.	2.6	12
136	Surfactant desorption and scission free energies for cylindrical and spherical micelles from umbrella-sampling molecular dynamics simulations. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 773-784.	9.4	12
137	Implications of microscopic simulations of polymer melts for mean-field tube theories. <i>Molecular Physics</i> , 2007, 105, 249-260.	1.7	11
138	Concentration Dependence of Shear-Induced Polymer Migration in DNA Solutions near a Surface. <i>Macromolecules</i> , 2007, 40, 8784-8787.	4.8	11
139	Predicting the Flow of Real Polymers. <i>Science</i> , 2011, 333, 1834-1835.	12.6	11
140	Rotator-to-Lamellar Phase Transition in Janus Colloids Driven by Pressure Anisotropy. <i>Physical Review Letters</i> , 2016, 117, 128001.	7.8	11
141	Elongation thinning and morphology deformation of nanoparticle-filled polypropylene/polystyrene blends in elongational flow. <i>Journal of Rheology</i> , 2018, 62, 11-23.	2.6	11
142	Modeling Intercolloidal Interactions Induced by Adsorption of Mobile Telechelic Polymers onto Particle Surfaces. <i>Macromolecules</i> , 2019, 52, 5357-5365.	4.8	11
143	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	11
144	Effects of Bending and Torsional Potentials on High-Frequency Viscoelasticity of Dilute Polymer Solutions. <i>Macromolecules</i> , 2008, 41, 3692-3700.	4.8	10

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145	Complex Protein Patterns in Drying Droplets. Materials Research Society Symposia Proceedings, 2010, 1273, 30101.	0.1	10
146	Stress-gradient-induced polymer migration: Perturbation theory and comparisons to stochastic simulations. Journal of Rheology, 2016, 60, 327-343.	2.6	10
147	Bridging Dynamics of Telechelic Polymers between Solid Surfaces. Macromolecules, 2018, 51, 2125-2137.	4.8	10
148	Tension-Induced Nematic Phase Separation in Bidisperse Homopolymer Melts. ACS Central Science, 2018, 4, 1545-1550.	11.3	10
149	Stretch and Breakage of Wormlike Micelles under Uniaxial Strain: A Simulation Study and Comparison with Experimental Results. Langmuir, 2018, 34, 12600-12608.	3.5	10
150	Unraveling Dynamics of Entangled Polymers in Strong Extensional Flows. Macromolecules, 2019, 52, 1296-1307.	4.8	10
151	Inertial migration of neutrally buoyant prolate and oblate spheroids in plane Poiseuille flow using dissipative particle dynamics simulations. Computational Materials Science, 2019, 162, 178-185.	3.0	10
152	Future directions in physiochemical modeling of the thermodynamics of polyelectrolyte coacervates. AIChE Journal, 2022, 68, .	3.6	10
153	A hybrid Brownian dynamics/constitutive model for yielding, aging, and rejuvenation in deforming polymeric glasses. Soft Matter, 2016, 12, 6757-6770.	2.7	9
154	Kinetic modeling and design of colloidal lock and key assembly. Journal of Colloid and Interface Science, 2016, 463, 242-257.	9.4	9
155	Multiscale Modeling of Sub-Entanglement-Scale Chain Stretching and Strain Hardening in Deformed Polymeric Glasses. Macromolecules, 2019, 52, 9248-9260.	4.8	9
156	Concentration, salt and temperature dependence of strain hardening of step shear in CTAB/NaSal surfactant solutions. Journal of Rheology, 2017, 61, 967-977.	2.6	8
157	Stress-gradient-induced polymer migration in Taylor-Couette flow. Soft Matter, 2017, 13, 5942-5949.	2.7	8
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