Gareth H Mckinley

List of Publications by Year
in descending order

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344 papers	35,054 citations	95 h-index	175 g-index
		3116	4741
353 all docs	353 docs citations	353 times ranked	26899 citing authors

#	Article	IF	Citations
1	Rheo-chemistry of gelation in aiyu (fig) jelly. Food Hydrocolloids, 2022, 123, 107001.	5.6	7
2	OrthoChirp: A fast spectro-mechanical probe for monitoring transient microstructural evolution of complex fluids during shear. Journal of Non-Newtonian Fluid Mechanics, 2022, 301, 104744.	1.0	8
3	Why the Coxâ€“Merz rule and Gleissle mirror relation work: A quantitative analysis using the Wagner integral framework with a fractional Maxwell kernel. Physics of Fluids, 2022, 34, .	1.6	12
4	Finite volume simulations of particle-laden viscoelastic fluid flows: application to hydraulic fracture processes. Engineering With Computers, 2022, 38, 5395-5421.	3.5	11
5	On Oreology, the fracture and flow of â€œmilk's favorite cookieÂ®â€. Physics of Fluids, 2022, 34, .	1.6	8
6	10.1063/5.0085362.1. , 2022, , .		0
7	Versatile acid solvents for pristine carbon nanotube assembly. Science Advances, 2022, 8, eabm3285.	4.7	15
8	Computational rheometry of yielding and viscoplastic flow in vane-and-cup rheometer fixtures. Journal of Non-Newtonian Fluid Mechanics, 2022, 307, 104857.	1.0	5
9	In situ mechanical reinforcement of polymer hydrogels via metal-coordinated crosslink mineralization. Nature Communications, 2021, 12, 667.	5.8	60
10	Characterizing viscoelastic properties of synthetic and natural fibers and their coatings with a torsional pendulum. Soft Matter, 2021, 17, 4578-4593.	1.2	2
11	Crack morphologies in drying suspension drops. Soft Matter, 2021, 17, 8832-8837.	1.2	12
12	Timeâ€“connectivity superposition and the gel/glass duality of weak colloidal gels. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	30
13	An improved Capillary Breakup Extensional Rheometer to characterize weakly rate-thickening fluids: Applications in synthetic automotive oils. Journal of Non-Newtonian Fluid Mechanics, 2021, 291, 104496.	1.0	11
14	Substrateâ€Versatile Directâ€Write Printing of Carbon Nanotubeâ€Based Flexible Conductors, Circuits, and Sensors. Advanced Functional Materials, 2021, 31, 2100245.	7.8	18
15	Flexible Electronics: Substrateâ€Versatile Directâ€Write Printing of Carbon Nanotubeâ€Based Flexible Conductors, Circuits, and Sensors (Adv. Funct. Mater. 25/2021). Advanced Functional Materials, 2021, 31, 2170181.	7.8	1
16	Levitation of fizzy drops. Science Advances, 2021, 7, .	4.7	11
17	Spectral Universality of Elastoinertial Turbulence. Physical Review Letters, 2021, 127, 074501.	2.9	21
18	Medium amplitude parallel superposition (MAPS) rheology of a wormlike micellar solution. Rheologica Acta, 2021, 60, 729-739.	1.1	2

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19	The medium amplitude response of nonlinear Maxwellâ€“Oldroyd type models in simple shear. Journal of Non-Newtonian Fluid Mechanics, 2021, 295, 104601.	1.0	5
20	Low-cost manganese dioxide semi-solid electrode for flow batteries. Joule, 2021, 5, 2934-2954.	11.7	38
21	Incorporating Rheological Nonlinearity into Fractional Calculus Descriptions of Fractal Matter and Multi-Scale Complex Fluids. Fractal and Fractional, 2021, 5, 174.	1.6	16
22	Polymers and Plastrons in Parallel Yield Enhanced Turbulent Drag Reduction. Fluids, 2020, 5, 197.	0.8	4
23	Medium amplitude parallel superposition (MAPS) rheology. Part 2: Experimental protocols and data analysis. Journal of Rheology, 2020, 64, 1263-1293.	1.3	11
24	Programmable Anisotropy and Percolation in Supramolecular Patchy Particle Gels. ACS Nano, 2020, 14, 17018-17027.	7.3	21
25	High-energy and high-power Znâ€“Ni flow batteries with semi-solid electrodes. Sustainable Energy and Fuels, 2020, 4, 4076-4085.	2.5	14
26	Lubricant-Impregnated Surfaces for Mitigating Asphaltene Deposition. ACS Applied Materials & Interfaces, 2020, 12, 28750-28758.	4.0	5
27	Stress decomposition in LAOS of dense colloidal suspensions. Journal of Rheology, 2020, 64, 343-351.	1.3	18
28	Medium amplitude parallel superposition (MAPS) rheology. Part 1: Mathematical framework and theoretical examples. Journal of Rheology, 2020, 64, 551-579.	1.3	19
29	Improved rheometry of yield stress fluids using bespoke fractal 3D printed vanes. Journal of Rheology, 2020, 64, 643-662.	1.3	32
30	Asphaltene Adsorption on Functionalized Solids. Langmuir, 2020, 36, 3894-3902.	1.6	12
31	Time-rate-transformation framework for targeted assembly of short-range attractive colloidal suspensions. Materials Today Advances, 2020, 5, 100026.	2.5	24
32	Rotary atomization of Newtonian and viscoelastic liquids. Physical Review Fluids, 2020, 5, .	1.0	16
33	Cooperative drag reduction in turbulent flows using polymer additives and superhydrophobic walls. Physical Review Fluids, 2020, 5, .	1.0	18
34	Geometry mediated friction reduction in Taylor-Couette flow. Physical Review Fluids, 2020, 5, .	1.0	5
35	Anti-fatigue-fracture hydrogels. Science Advances, 2019, 5, eaau8528.	4.7	305
36	Restoring universality to the pinch-off of a bubble. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13780-13784.	3.3	18

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37	A generalised Phanâ€“Thienâ€”Tanner model. Journal of Non-Newtonian Fluid Mechanics, 2019, 269, 88-99.	1.0	38
38	Hydrodynamics control shear-induced pattern formation in attractive suspensions. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12193-12198.	3.3	53
39	Geometric optimization of riblet-textured surfaces for drag reduction in laminar boundary layer flows. Physics of Fluids, 2019, 31, .	1.6	34
40	Shear melting and recovery of crosslinkable cellulose nanocrystalâ€“polymer gels. Soft Matter, 2019, 15, 4401-4412.	1.2	12
41	Influence of textural statistics on drag reduction by scalable, randomly rough superhydrophobic surfaces in turbulent flow. Physics of Fluids, 2019, 31, .	1.6	59
42	Editorial: Viscoplastic fluids: From theory to application. Journal of Non-Newtonian Fluid Mechanics, 2019, 265, 140-142.	1.0	0
43	Fully-resolved simulations of particle-laden viscoelastic fluids using an immersed boundary method. Journal of Non-Newtonian Fluid Mechanics, 2019, 266, 80-94.	1.0	35
44	Multiscale Nature of Thixotropy and Rheological Hysteresis in Attractive Colloidal Suspensions under Shear. Physical Review Letters, 2019, 123, 248003.	2.9	32
45	Epidermal biopolysaccharides from plant seeds enable biodegradable turbulent drag reduction. Scientific Reports, 2019, 9, 18263.	1.6	15
46	A canonical framework for modeling elasto-viscoplasticity in complex fluids. Journal of Non-Newtonian Fluid Mechanics, 2019, 265, 116-132.	1.0	42
47	Time-resolved dynamics of the yielding transition in soft materials. Journal of Non-Newtonian Fluid Mechanics, 2019, 264, 117-134.	1.0	64
48	Reduced adhesion of sparkling water droplets. Physical Review Fluids, 2019, 4, .	1.0	9
49	Viscoelastic fishbones. Physical Review Fluids, 2019, 4, .	1.0	2
50	Thin films in partial wetting: stability, dewetting and coarsening. Journal of Fluid Mechanics, 2018, 845, 642-681.	1.4	41
51	Scalable and durable polymeric icephobic and hydrate-phobic coatings. Soft Matter, 2018, 14, 3443-3454.	1.2	47
52	Time-Resolved Mechanical Spectroscopy of Soft Materials via Optimally Windowed Chirps. Physical Review X, 2018, 8, .	2.8	21
53	Plastron Regeneration on Submerged Superhydrophobic Surfaces Using In Situ Gas Generation by Chemical Reaction. ACS Applied Materials & Interfaces, 2018, 10, 33684-33692.	4.0	47
54	Enhancing the Performance of Viscous Electrode-Based Flow Batteries Using Lubricant-Impregnated Surfaces. ACS Applied Energy Materials, 2018, 1, 3614-3621.	2.5	8

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55	Theoretical and numerical analysis of unsteady fractional viscoelastic flows in simple geometries. Computers and Fluids, 2018, 174, 14-33.	1.3	21
56	Computing the linear viscoelastic properties of soft gels using an optimally windowed chirp protocol. Journal of Rheology, 2018, 62, 1037-1050.	1.3	28
57	Fog Water Collection Effectiveness: Mesh Intercomparisons. Aerosol and Air Quality Research, 2018, 18, 270-283.	0.9	63
58	Describing the firmness, springiness and rubberiness of food gels using fractional calculus. Part I: Theoretical framework. Food Hydrocolloids, 2017, 62, 311-324.	5.6	48
59	Quantifying the consistency and rheology of liquid foods using fractional calculus. Food Hydrocolloids, 2017, 69, 242-254.	5.6	40
60	Superoleophilic Titania Nanoparticle Coatings with Fast Fingerprint Decomposition and High Transparency. ACS Applied Materials & Interfaces, 2017, 9, 8354-8360.	4.0	12
61	Microstructural Rearrangements and their Rheological Implications in a Model Thixotropic Elastoviscoplastic Fluid. Physical Review Letters, 2017, 118, 048003.	2.9	59
62	Visible light guided manipulation of liquid wettability on photoresponsive surfaces. Nature Communications, 2017, 8, 14968.	5.8	89
63	Fabrication and Wettability Study of WO3 Coated Photocatalytic Membrane for Oil-Water Separation: A Comparative Study with ZnO Coated Membrane. Scientific Reports, 2017, 7, 1686.	1.6	57
64	Nonlinear Viscoelasticity and Generalized Failure Criterion for Polymer Gels. ACS Macro Letters, 2017, 6, 663-667.	2.3	40
65	Mapping thixo-elasto-visco-plastic behavior. Rheologica Acta, 2017, 56, 195-210.	1.1	79
66	Thermokinematic memory and the thixotropic elasto-viscoplasticity of waxy crude oils. Journal of Rheology, 2017, 61, 427-454.	1.3	75
67	Icephobic Surfaces Induced by Interfacial Nonfrozen Water. ACS Applied Materials & Interfaces, 2017, 9, 4202-4214.	4.0	138
68	Drag reduction using wrinkled surfaces in high Reynolds number laminar boundary layer flows. Physics of Fluids, 2017, 29, .	1.6	49
69	Age-dependent capillary thinning dynamics of physically-associated salivary mucin networks. Journal of Rheology, 2017, 61, 1309-1326.	1.3	10
70	Kinetics of Photoinduced Wettability Switching on Nanoporous Titania Surfaces under Oil. Advanced Materials Interfaces, 2017, 4, 1700462.	1.9	16
71	A Rheological Study of the Association and Dynamics of MUC5AC Gels. Biomacromolecules, 2017, 18, 3654-3664.	2.6	122
72	Stable Wettability Control of Nanoporous Microstructures by iCVD Coating of Carbon Nanotubes. ACS Applied Materials & Interfaces, 2017, 9, 43287-43299.	4.0	46

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73	Thermal delay of drop coalescence. Journal of Fluid Mechanics, 2017, 833, .	1.4	38
74	Rheology as a Mechanoscopic Method to Monitor Mineralization in Hydrogels. Biomacromolecules, 2017, 18, 4067-4074.	2.6	9
75	Describing the firmness, springiness and rubberiness of food gels using fractional calculus. Part II: Measurements on semi-hard cheese. Food Hydrocolloids, 2017, 62, 325-339.	5.6	37
76	Spontaneous wettability patterning via creasing instability. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8087-8092.	3.3	19
77	Micro-scale extensional rheometry using hyperbolic converging/diverging channels and jet breakup. Biomicrofluidics, 2016, 10, 043502.	1.2	22
78	High-resolution velocity measurement in the inner part of turbulent boundary layers over super-hydrophobic surfaces. Journal of Fluid Mechanics, 2016, 801, 670-703.	1.4	83
79	Simultaneous Rheoelectric Measurements of Strongly Conductive Complex Fluids. Physical Review Applied, 2016, 6, .	1.5	56
80	Ultrathin high-resolution flexographic printing using nanoporous stamps. Science Advances, 2016, 2, e1601660.	4.7	89
81	Complex Fluids and Hydraulic Fracturing. Annual Review of Chemical and Biomolecular Engineering, 2016, 7, 415-453.	3.3	141
82	A low-dissipation, pumpless, gravity-induced flow battery. Energy and Environmental Science, 2016, 9, 1760-1770.	15.6	39
83	Coupled dynamics of flow, microstructure, and conductivity in sheared suspensions. Soft Matter, 2016, 12, 7688-7697.	1.2	8
84	Ligament Mediated Fragmentation of Viscoelastic Liquids. Physical Review Letters, 2016, 117, 154502.	2.9	57
85	Mobility and pore-scale fluid dynamics of rate-dependent yield-stress fluids flowing through fibrous porous media. Journal of Non-Newtonian Fluid Mechanics, 2016, 235, 76-82.	1.0	19
86	Yield Hardening of Electrorheological Fluids in Channel Flow. Physical Review Applied, 2016, 5, .	1.5	10
87	Elastic instabilities in planar elongational flow of monodisperse polymer solutions. Scientific Reports, 2016, 6, 33029.	1.6	80
88	Sustained drag reduction in a turbulent flow using a low-temperature Leidenfrost surface. Science Advances, 2016, 2, e1600686.	4.7	92
89	The importance of flow history in mixed shear and extensional flows. Journal of Non-Newtonian Fluid Mechanics, 2016, 233, 133-145.	1.0	19
90	Durable and scalable icephobic surfaces: similarities and distinctions from superhydrophobic surfaces. Soft Matter, 2016, 12, 1938-1963.	1.2	272

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91	Dynamics of particle migration in channel flow of viscoelastic fluids. Journal of Fluid Mechanics, 2015, 785, 486-505.	1.4	96
92	Colloidal Suspensions: Biphasic Electrode Suspensions for Li-Ion Semi-solid Flow Cells with High Energy Density, Fast Charge Transport, and Low-Dissipation Flow (Adv. Energy Mater. 15/2015). Advanced Energy Materials, 2015, 5, n/a-n/a.	10.2	0
93	Mobility of power-law and Carreau fluids through fibrous media. Physical Review E, 2015, 92, 063012.	0.8	30
94	Layer-by-layer functionalized nanotube arrays: A versatile microfluidic platform for biodetection. Microsystems and Nanoengineering, 2015, 1, .	3.4	16
95	Spatiotemporal dynamics of multiple shear-banding events for viscoelastic micellar fluids in cone-plate shearing flows. Journal of Non-Newtonian Fluid Mechanics, 2015, 222, 234-247.	1.0	9
96	Biphasic Electrode Suspensions for Liâ€Ion Semiâ€solid Flow Cells with High Energy Density, Fast Charge Transport, and Lowâ€Dissipation Flow. Advanced Energy Materials, 2015, 5, 1500535.	10.2	76
97	Investigation into the Formation and Adhesion of Cyclopentane Hydrates on Mechanically Robust Vapor-Deposited Polymeric Coatings. Langmuir, 2015, 31, 6186-6196.	1.6	46
98	Designing Durable Vaporâ€Deposited Surfaces for Reduced Hydrate Adhesion. Advanced Materials Interfaces, 2015, 2, 1500003.	1.9	43
99	Celebrating Soft Matter's 10th Anniversary: Chain configuration and rate-dependent mechanical properties in transient networks. Soft Matter, 2015, 11, 2085-2096.	1.2	32
100	Probing hydrogen bond interactions in a shear thickening polysaccharide using nonlinear shear and extensional rheology. Carbohydrate Polymers, 2015, 123, 136-145.	5.1	40
101	Sustainable Drag Reduction in Turbulent Taylor-Couette Flows by Depositing Sprayable Superhydrophobic Surfaces. Physical Review Letters, 2015, 114, 014501.	2.9	145
102	An analytic solution for capillary thinning and breakup of FENE-P fluids. Journal of Non-Newtonian Fluid Mechanics, 2015, 218, 53-61.	1.0	31
103	Studying the effects of elongational properties on atomization of weakly viscoelastic solutions using Rayleigh Ohnesorge Jetting Extensional Rheometry (ROJER). Journal of Non-Newtonian Fluid Mechanics, 2015, 222, 171-189.	1.0	109
104	Thin Films in Partial Wetting: Internal Selection of Contact-Line Dynamics. Physical Review Letters, 2015, 115, 034502.	2.9	22
105	Linker-free grafting of fluorinated polymeric cross-linked network bilayers for durable reduction of ice adhesion. Materials Horizons, 2015, 2, 91-99.	6.4	88
106	The rheology of aqueous solutions of ethyl hydroxy-ethyl cellulose (EHEC) and its hydrophobically modified analogue (hmEHEC): extensional flow response in capillary break-up, jetting (ROJER) and in a cross-slot extensional rheometer. Soft Matter, 2015, 11, 3251-3270.	1.2	82
107	Quantitative polarized light microscopy of human cochlear sections. Biomedical Optics Express, 2015, 6, 599.	1.5	10
108	Designing Robust Hierarchically Textured Oleophobic Fabrics. Langmuir, 2015, 31, 13201-13213.	1.6	21

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109	Viscosity and Thermal Conductivity of Stable Graphite Suspensions Near Percolation. Nano Letters, 2015, 15, 127-133.	4.5	32
110	Surface Tension of Seawater. Journal of Physical and Chemical Reference Data, 2014, 43, .	1.9	78
111	An analytical solution to the extended Navierâ€“Stokes equations using the Lambert W function. AICHE Journal, 2014, 60, 1413-1423.	1.8	10
112	Inertio-elastic focusing of bioparticles in microchannels at high throughput. Nature Communications, 2014, 5, 4120.	5.8	173
113	Polysulfide Flow Batteries Enabled by Percolating Nanoscale Conductor Networks. Nano Letters, 2014, 14, 2210-2218.	4.5	201
114	Metal-coordination: using one of nature's tricks to control soft material mechanics. Journal of Materials Chemistry B, 2014, 2, 2467-2472.	2.9	178
115	Response to: Sufficiently entangled polymers do show shear strain localization at high enough Weissenberg numbersâ€. Journal of Rheology, 2014, 58, 1071-1082.	1.3	24
116	A fractional K-BKZ constitutive formulation for describing the nonlinear rheology of multiscale complex fluids. Journal of Rheology, 2014, 58, 1751-1788.	1.3	86
117	A comprehensive constitutive law for waxy crude oil: a thixotropic yield stress fluid. Soft Matter, 2014, 10, 6619-6644.	1.2	183
118	Multifunctional Inverted Nanocone Arrays for Nonâ€Wetting, Selfâ€Cleaning Transparent Surface with High Mechanical Robustness. Small, 2014, 10, 2487-2494.	5.2	75
119	Dispersity and spinnability: Why highly polydisperse polymer solutions are desirable for electrospinning. Polymer, 2014, 55, 4920-4931.	1.8	88
120	Study of Factors Governing Oilâ€“Water Separation Process Using TiO₂ Films Prepared by Spray Deposition of Nanoparticle Dispersions. ACS Applied Materials & Interfaces, 2014, 6, 13422-13429.	4.0	217
121	Shear-Thinning Nanocomposite Hydrogels for the Treatment of Hemorrhage. ACS Nano, 2014, 8, 9833-9842.	7.3	318
122	Quantification of feather structure, wettability and resistance to liquid penetration. Journal of the Royal Society Interface, 2014, 11, 20140287.	1.5	49
123	Wormlike micellar solutions: III. VCM model predictions in steady and transient shearing flows. Journal of Non-Newtonian Fluid Mechanics, 2014, 211, 70-83.	1.0	37
124	Interception efficiency in two-dimensional flow past confined porous cylinders. Chemical Engineering Science, 2014, 116, 752-762.	1.9	12
125	Dropwise Condensation of Low Surface Tension Fluids on Omniphobic Surfaces. Scientific Reports, 2014, 4, 4158.	1.6	173
126	High-flux magnetorheology at elevated temperatures. Rheologica Acta, 2013, 52, 623-641.	1.1	19

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127	Microfluidic extensional rheometry using a hyperbolic contraction geometry. Rheologica Acta, 2013, 52, 529-546.	1.1	113
128	Optimal Design of Permeable Fiber Network Structures for Fog Harvesting. Langmuir, 2013, 29, 13269-13277.	1.6	330
129	Flow field visualization of entangled polybutadiene solutions under nonlinear viscoelastic flow conditions. Journal of Rheology, 2013, 57, 1411-1428.	1.3	57
130	Utilizing Dynamic Tensiometry to Quantify Contact Angle Hysteresis and Wetting State Transitions on Nonwetting Surfaces. Langmuir, 2013, 29, 13396-13406.	1.6	26
131	Structure evolution in electrorheological fluids flowing through microchannels. Soft Matter, 2013, 9, 2889.	1.2	22
132	Exploring the kinetics of switchable polymer surfaces with dynamic tensiometry. Soft Matter, 2013, 9, 6080.	1.2	16
133	Describing and prescribing the constitutive response of yield stress fluids using large amplitude oscillatory shear stress (LAOStress). Journal of Rheology, 2013, 57, 27-70.	1.3	218
134	Rapid viscoelastic switching of an ambient temperature range photo-responsive azobenzene side chain liquid crystal polymer. Polymer, 2013, 54, 2850-2856.	1.8	19
135	Droplet mobility on lubricant-impregnated surfaces. Soft Matter, 2013, 9, 1772-1780.	1.2	810
136	Drag reduction for viscous laminar flow on spray-coated non-wetting surfaces. Soft Matter, 2013, 9, 5691.	1.2	127
137	Photo-induced in situ switching of surface wettability of Titania films under air and oil environment. , 2013, , .		0
138	Power-law rheology in the bulk and at the interface: quasi-properties and fractional constitutive equations. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20120284.	1.0	191
139	Quantitative polarized light microscopy of unstained mammalian cochlear sections. Journal of Biomedical Optics, 2013, 18, 026021.	1.4	24
140	Solâ€“Gel Synthesis of $hbox{Au/Cu-TiO}_{2}$ Nanocomposite and Their Morphological and Optical Properties. IEEE Photonics Journal, 2013, 5, 2201908-2201908.	1.0	18
141	Capillary Breakup of Discontinuously Rate Thickening Suspensions. Physical Review Letters, 2013, 111, 036001.	2.9	8
142	Extensional flow of hyaluronic acid solutions in an optimized microfluidic cross-slot device. Biomicrofluidics, 2013, 7, 044108.	1.2	68
143	Instabilities in stagnation point flows of polymer solutions. Physics of Fluids, 2013, 25, .	1.6	38
144	Plasmon Resonance Enhanced Photocatalysis Under Visible Light with Au/Cuâ€“TiO₂ Nanoparticles: Removal Cr (VI) from Water as a Case of Study. Science of Advanced Materials, 2013, 5, 2007-2014.	0.1	13

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145	Cervical Mucus Properties Stratify Risk for Preterm Birth. PLoS ONE, 2013, 8, e69528.	1.1	63
146	Rheology and microstructural evolution in pressure-driven flow of a magnetorheological fluid with strong particleâ€“wall interactions. Journal of Intelligent Material Systems and Structures, 2012, 23, 969-978.	1.4	8
147	Optimized Cross-Slot Flow Geometry for Microfluidic Extensional Rheometry. Physical Review Letters, 2012, 109, 128301.	2.9	116
148	Multiple Shear-Banding Transitions for a Model of Wormlike Micellar Solutions. SIAM Journal on Applied Mathematics, 2012, 72, 1192-1212.	0.8	24
149	Arrested Chain Growth During Magnetic Directed Particle Assembly in Yield Stress Matrix Fluids. Langmuir, 2012, 28, 3683-3689.	1.6	15
150	Hydrate-phobic surfaces: fundamental studies in clathrate hydrate adhesion reduction. Physical Chemistry Chemical Physics, 2012, 14, 6013.	1.3	72
151	Extensional rheology and elastic instabilities of a wormlike micellar solution in a microfluidic cross-slot device. Soft Matter, 2012, 8, 536-555.	1.2	95
152	Interplay between elastic instabilities and shear-banding: three categories of Taylorâ€“Couette flows and beyond. Soft Matter, 2012, 8, 10072.	1.2	47
153	Shear and Extensional Rheology of Cellulose/Ionic Liquid Solutions. Biomacromolecules, 2012, 13, 1688-1699.	2.6	154
154	Nanotextured Silica Surfaces with Robust Superhydrophobicity and Omnidirectional Broadband Supertransmissivity. ACS Nano, 2012, 6, 3789-3799.	7.3	378
155	Shear-banding in surfactant wormlike micelles: elastic instabilities and wall slip. Soft Matter, 2012, 8, 2535.	1.2	56
156	Superoleophobic Surfaces through Control of Sprayed-on Stochastic Topography. Langmuir, 2012, 28, 9834-9841.	1.6	75
157	Potential â€œways of thinkingâ€•about the shear-banding phenomenon. Soft Matter, 2012, 8, 910-922.	1.2	39
158	Stagnation point flow of wormlike micellar solutions in a microfluidic cross-slot device: Effects of surfactant concentration and ionic environment. Physical Review E, 2012, 85, 031502.	0.8	64
159	Visualization of microscale particle focusing in diluted and whole blood using particle trajectory analysis. Lab on A Chip, 2012, 12, 2199.	3.1	42
160	An intriguing empirical rule for computing the first normal stress difference from steady shear viscosity data for concentrated polymer solutions and melts. Rheologica Acta, 2012, 51, 487-495.	1.1	40
161	Rheo-PIV of a shear-banding wormlike micellar solution under large amplitude oscillatory shear. Rheologica Acta, 2012, 51, 395-411.	1.1	49
162	Magnetorheology in an aging, yield stress matrix fluid. Rheologica Acta, 2012, 51, 579-593.	1.1	38

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163	Constant force extensional rheometry of polymer solutions. Journal of Non-Newtonian Fluid Mechanics, 2012, 169-170, 26-41.	1.0	28
164	Nonlinear microrheology of an aging, yield stress fluid using magnetic tweezers. Soft Matter, 2011, 7, 9933.	1.2	55
165	Microrheometry of sub-nanolitre biopolymer samples: non-Newtonian flow phenomena of carnivorous plant mucilage. Soft Matter, 2011, 7, 10889.	1.2	54
166	Criterion for purely elastic Taylor-Couette instability in the flows of shear-banding fluids. Europhysics Letters, 2011, 96, 44004.	0.7	33
167	Rheo-PIV Analysis of the Yielding and Flow of Model Waxy Crude Oils. Energy & Fuels, 2011, 25, 3040-3052.	2.5	72
168	Large amplitude oscillatory shear flow of gluten dough: A model power-law gel. Journal of Rheology, 2011, 55, 627-654.	1.3	135
169	Examination of wettability and surface energy in fluorodecyl POSS/polymer blends. Soft Matter, 2011, 7, 10122.	1.2	46
170	Wolfgang von Ohnesorge. Physics of Fluids, 2011, 23, .	1.6	163
171	Assessing the Accuracy of Contact Angle Measurements for Sessile Drops on Liquid-Repellent Surfaces. Langmuir, 2011, 27, 13582-13589.	1.6	119
172	Size dependence of microprobe dynamics during gelation of a discotic colloidal clay. Journal of Rheology, 2011, 55, 273-299.	1.3	69
173	Rheology of globular proteins: apparent yield stress, high shear rate viscosity and interfacial viscoelasticity of bovine serum albumin solutions. Soft Matter, 2011, 7, 5150.	1.2	160
174	Spatially resolved quantitative rheo-optics of complex fluids in a microfluidic device. Journal of Rheology, 2011, 55, 1127-1159.	1.3	46
175	A review of nonlinear oscillatory shear tests: Analysis and application of large amplitude oscillatory shear (LAOS). Progress in Polymer Science, 2011, 36, 1697-1753.	11.8	1,109
176	Interfacial viscoelasticity, yielding and creep ringing of globular proteinâ€“surfactant mixtures. Soft Matter, 2011, 7, 7623.	1.2	64
177	Pressure-driven flow of wormlike micellar solutions in rectilinear microchannels. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 180-193.	1.0	37
178	Interfacial instability of pressure-driven channel flow for a two-species model of entangled wormlike micellar solutions. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 566-577.	1.0	18
179	Characterization and modeling of direct-write fabrication of microscale polymer fibers. Polymer, 2011, 52, 1654-1661.	1.8	28
180	Solution spraying of poly(methyl methacrylate) blends to fabricate microtextured, superoleophobic surfaces. Polymer, 2011, 52, 3209-3218.	1.8	179

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181	Controllable adhesion using field-activated fluids. Physics of Fluids, 2011, 23, .	1.6	37
182	RHEOLOGY AND MICROSTRUCTURAL EVOLUTION IN PRESSURE-DRIVEN FLOW OF A MAGNETORHEOLOGICAL FLUID WITH STRONG PARTICLE-WALL INTERACTIONS. , 2011, , .		0
183	Dynamics of bead formation, filament thinning and breakup in weakly viscoelastic jets. Journal of Fluid Mechanics, 2010, 665, 46-56.	1.4	90
184	Extensional Properties of a Dilute Polymer Solution Following Preshear in Microgravity. , 2010, , .		1
185	Relationships between Water Wettability and Ice Adhesion. ACS Applied Materials & Interfaces, 2010, 2, 3100-3110.	4.0	655
186	Large amplitude oscillatory shear of pseudoplastic and elastoviscoplastic materials. Rheologica Acta, 2010, 49, 191-212.	1.1	273
187	On secondary loops in LAOS via self-intersection of Lissajousâ€“Bowditch curves. Rheologica Acta, 2010, 49, 213-219.	1.1	126
188	Synthesis, mechanical properties and chemical/solvent resistance of crosslinked poly(aryl-etherâ€“etherâ€“ketones) at high temperatures. Polymer, 2010, 51, 1914-1920.	1.8	32
189	Rapid measurement of transient velocity evolution using GERVAIS. Journal of Magnetic Resonance, 2010, 202, 93-101.	1.2	19
190	Probing shear-banding transitions of the VCM model for entangled wormlike micellar solutions using large amplitude oscillatory shear (LAOS) deformations. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 1462-1472.	1.0	47
191	Formation of beads-on-a-string structures during break-up of viscoelastic filaments. Nature Physics, 2010, 6, 625-631.	6.5	274
192	On the measured current in electrospinning. Journal of Applied Physics, 2010, 107, 044306.	1.1	46
193	Scale Dependence of Omniphobic Mesh Surfaces. Langmuir, 2010, 26, 4027-4035.	1.6	129
194	Wormlike micellar solutions: II. Comparison between experimental data and scission model predictions. Journal of Rheology, 2010, 54, 881-913.	1.3	73
195	Fluoroalkylated Silicon-Containing Surfacesâ€”Estimation of Solid-Surface Energy. ACS Applied Materials & Interfaces, 2010, 2, 3544-3554.	4.0	58
196	Elastic Turbulence in Shear Banding Wormlike Micelles. Physical Review Letters, 2010, 104, 178303.	2.9	73
197	Extensional Properties of a Dilute Polymer Solution Following Preshear in Microgravity. , 2010, , .		1
198	Exploiting Topographical Texture To Impart Icephobicity. ACS Nano, 2010, 4, 7048-7052.	7.3	355

#	Article	IF	Citations
199	Helicobacter pylori moves through mucus by reducing mucin viscoelasticity. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14321-14326.	3.3	347
200	From ultra-soft slime to hard Â-keratins: The many lives of intermediate filaments. Integrative and Comparative Biology, 2009, 49, 32-39.	0.9	38
201	Nonlinear viscoelastic biomaterials: meaningful characterization and engineering inspiration. Integrative and Comparative Biology, 2009, 49, 40-50.	0.9	67
202	Rolling stones: The motion of a sphere down an inclined plane coated with a thin liquid film. Physics of Fluids, 2009, 21, .	1.6	29
203	The Dynamic Compressive Response of an Open-Cell Foam Impregnated With a Non-Newtonian Fluid. Journal of Applied Mechanics, Transactions ASME, 2009, 76, .	1.1	42
204	â€˜Gobbling dropsâ€™: the jettingâ€“dripping transition in flows of polymer solutions. Journal of Fluid Mechanics, 2009, 636, 5-40.	1.4	60
205	Fabrics with Tunable Oleophobicity. Advanced Materials, 2009, 21, 2190-2195.	11.1	351
206	Reversible Switching of the Shear Modulus of Photoresponsive Liquidâ€Crystalline Polymers. Angewandte Chemie - International Edition, 2009, 48, 3494-3498.	7.2	38
207	Microfluidic rheometry. Mechanics Research Communications, 2009, 36, 110-120.	1.0	213
208	A modified Cassieâ€“Baxter relationship to explain contact angle hysteresis and anisotropy on non-wetting textured surfaces. Journal of Colloid and Interface Science, 2009, 339, 208-216.	5.0	477
209	Investigating the stability of viscoelastic stagnation flows in T-shaped microchannels. Journal of Non-Newtonian Fluid Mechanics, 2009, 163, 9-24.	1.0	73
210	Extensional flow of wormlike micellar solutions. Chemical Engineering Science, 2009, 64, 4588-4596.	1.9	43
211	Thermal Annealing Treatment to Achieve Switchable and Reversible Oleophobicity on Fabrics. Langmuir, 2009, 25, 13625-13632.	1.6	62
212	Observing the chain stretch transition in a highly entangled polyisoprene melt using transient extensional rheometry. Journal of Rheology, 2009, 53, 1327-1346.	1.3	35
213	Preliminary Findings from the SHERE ISS Experiment. , 2009, , .		3
214	Marangoni convection in droplets on superhydrophobic surfaces. Journal of Fluid Mechanics, 2009, 624, 101-123.	1.4	149
215	Coating flows of non-Newtonian fluids: weakly and strongly elastic limits. Journal of Engineering Mathematics, 2008, 60, 17-41.	0.6	34
216	Simulations of extensional flow in microrheometric devices. Microfluidics and Nanofluidics, 2008, 5, 809-826.	1.0	89

#	Article	IF	Citations
217	Effect of a controlled pre-deformation history on extensional viscosity of dilute polymer solutions. Rheologica Acta, 2008, 47, 841-859.	1.1	21
218	High shear rate viscometry. Rheologica Acta, 2008, 47, 621-642.	1.1	208
219	Power law gels at finite strains: The nonlinear rheology of gluten gels. Journal of Rheology, 2008, 52, 417-449.	1.3	146
220	Modeling the inhomogeneous response and formation of shear bands in steady and transient flows of entangled liquids. Journal of Rheology, 2008, 52, 591-623.	1.3	61
221	Probing Shear-Banding Transitions of Entangled Liquids Using Large Amplitude Oscillatory Shearing (LAOS) Deformations. AIP Conference Proceedings, 2008, , .	0.3	4
222	Little Shop of Horrors: Rheology of the Mucilage of Drosera sp., a Carnivorous Plant. AIP Conference Proceedings, 2008, , .	0.3	6
223	Design Parameters for Superhydrophobicity and Superoleophobicity. MRS Bulletin, 2008, 33, 752-758.	1.7	308
224	Robust omniphobic surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18200-18205.	3.3	1,015
225	Enhanced thermal conductivity and viscosity of copper nanoparticles in ethylene glycol nanofluid. Journal of Applied Physics, 2008, 103, .	1.1	367
226	New measures for characterizing nonlinear viscoelasticity in large amplitude oscillatory shear. Journal of Rheology, 2008, 52, 1427-1458.	1.3	787
227	Flow and Stability of Wormlike Micellar and Polymeric Solutions in Converging and T-Shaped Microchannels. AIP Conference Proceedings, 2008, , .	0.3	2
228	The Dynamic Compressive Response of Open-Cell Foam Impregnated With a Newtonian Fluid. Journal of Applied Mechanics, Transactions ASME, 2008, 75, .	1.1	31
229	An Ontology for Large Amplitude Oscillatory Shear Flow. AIP Conference Proceedings, 2008, , .	0.3	13
230	Shear History Effects on Extensional Flow of Non-Newtonian Fluids in Filament Stretching Rheometers. AIP Conference Proceedings, 2008, , .	0.3	1
231	Experimental investigation of nanofluid shear and longitudinal viscosities. Applied Physics Letters, 2008, 92, 244107.	1.5	52
232	Carbon Nanotubeâ€"Magnetite Composites, With Applications to Developing Unique Magnetorheological Fluids. Journal of Fluids Engineering, Transactions of the ASME, 2007, 129, 429-437.	0.8	60
233	Non-Newtonian Flows. , 2007, , 619-743.		11
234	Designing Superoleophobic Surfaces. Science, 2007, 318, 1618-1622.	6.0	2,610

#	Article	IF	Citations
235	Rheology of Gastric Mucin Exhibits a pH-Dependent Solâ''Gel Transition. Biomacromolecules, 2007, 8, 1580-1586.	2.6	250
236	Rheological fingerprinting of gastropod pedal mucus and synthetic complex fluids for biomimicking adhesive locomotion. Soft Matter, 2007, 3, 634.	1.2	192
237	Adaptive energy-absorbing materials using field-responsive fluid-impregnated cellular solids. Smart Materials and Structures, 2007, 16, 106-113.	1.8	51
238	Role of the elasticity number in the entry flow of dilute polymer solutions in micro-fabricated contraction geometries. Journal of Non-Newtonian Fluid Mechanics, 2007, 143, 170-191.	1.0	219
239	A network scission model for wormlike micellar solutions. Journal of Non-Newtonian Fluid Mechanics, 2007, 144, 122-139.	1.0	133
240	High-performance elastomeric nanocomposites via solvent-exchange processing. Nature Materials, 2007, 6, 76-83.	13.3	318
241	Viscous flow through microfabricated hyperbolic contractions. Experiments in Fluids, 2007, 43, 437-451.	1.1	111
242	Extensional flows of polymer solutions in microfluidic converging/diverging geometries. Central South University, 2007, 14, 6-9.	0.5	27
243	Elongational viscosity of monodisperse and bidisperse polystyrene melts. Journal of Rheology, 2006, 50, 453-476.	1.3	139
244	How dilute are dilute solutions in extensional flows?. Journal of Rheology, 2006, 50, 849-881.	1.3	242
245	The flexure-based microgap rheometer (FMR). Journal of Rheology, 2006, 50, 883-905.	1.3	47
246	Preferential Association of Segment Blocks in Polyurethane Nanocomposites. Macromolecules, 2006, 39, 7030-7036.	2.2	60
247	The beads-on-string structure of viscoelastic threads. Journal of Fluid Mechanics, 2006, 556, 283.	1.4	222
248	Rheology and Dynamics of Associative Polymers in Shear and Extension:Â Theory and Experiments. Macromolecules, 2006, 39, 1981-1999.	2.2	219
249	Linear to Non-linear Rheology of Wheat Flour Dough. Applied Rheology, 2006, 16, 265-274.	3.5	39
250	Toughened poly(methyl methacrylate) nanocomposites by incorporating polyhedral oligomeric silsesquioxanes. Polymer, 2006, 47, 299-309.	1.8	164
251	Nonlinear shear and extensional flow dynamics of wormlike surfactant solutions. Journal of Non-Newtonian Fluid Mechanics, 2006, 133, 73-90.	1.0	129
252	Iterated stretching, extensional rheology and formation of beads-on-a-string structures in polymer solutions. Journal of Non-Newtonian Fluid Mechanics, 2006, 137, 137-148.	1.0	134

#	Article	IF	Citations
253	Slippage and migration in Taylorâ€“Couette flow of a model for dilute wormlike micellar solutions. Journal of Non-Newtonian Fluid Mechanics, 2006, 136, 79-92.	1.0	36
254	Special issue of JNNFM on extensional flow. Journal of Non-Newtonian Fluid Mechanics, 2006, 137, v-viii.	1.0	0
255	Thermorheological properties near the glass transition of oligomeric poly(methyl methacrylate) blended with acrylic polyhedral oligomeric silsesquioxane nanocages. Rheologica Acta, 2006, 45, 971-981.	1.1	20
256	Inductively Heated Shape Memory Polymer for the Magnetic Actuation of Medical Devices. IEEE Transactions on Biomedical Engineering, 2006, 53, 2075-2083.	2.5	313
257	Ex vivo rheology of spider silk. Journal of Experimental Biology, 2006, 209, 4355-4362.	0.8	97
258	Drop formation and breakup of low viscosity elastic fluids: Effects of molecular weight and concentration. Physics of Fluids, 2006, 18, 043101.	1.6	317
259	The inertio-elastic planar entry flow of low-viscosity elastic fluids in micro-fabricated geometries. Journal of Non-Newtonian Fluid Mechanics, 2005, 129, 1-22.	1.0	297
260	Miscibility and viscoelastic properties of acrylic polyhedral oligomeric silsesquioxaneâ€“poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.8	150
261	Capillary Break-up Rheometry of Low-Viscosity Elastic Fluids. Applied Rheology, 2005, 15, 12-27.	3.5	283
262	Nanobubble Formation at the Solid-Liquid Interface Studied by Atomic Force Microscopy. Materials Research Society Symposia Proceedings, 2005, 899, 1.	0.1	5
263	Measuring the transient extensional rheology of polyethylene melts using the SER universal testing platform. Journal of Rheology, 2005, 49, 585-606.	1.3	203
264	Controlling the Location and Spatial Extent of Nanobubbles Using Hydrophobically Nanopatterned Surfaces. Nano Letters, 2005, 5, 1751-1756.	4.5	135
265	Iterated stretching and multiple beads-on-a-string phenomena in dilute solutions of highly extensible flexible polymers. Physics of Fluids, 2005, 17, 071704.	1.6	134
266	Popliteal rippling of layered elastic tubes and scrolls. Europhysics Letters, 2004, 65, 323-329.	0.7	14
267	Tribo-Rheometry: From Gap-Dependent Rheology to Tribology. Tribology Letters, 2004, 17, 327-335.	1.2	58
268	Gap-dependent microrheometry of complex liquids. Journal of Non-Newtonian Fluid Mechanics, 2004, 124, 1-10.	1.0	74
269	Solvent Removal during Synthetic andNephilaFiber Spinning. Biomacromolecules, 2004, 5, 1698-1707.	2.6	33
270	Thermomechanical Properties of Poly(methyl methacrylate)s Containing Tethered and Untethered Polyhedral Oligomeric Silsesquioxanes. Macromolecules, 2004, 37, 8992-9004.	2.2	209

#	Article	IF	Citations
271	On the polymer entropic force singularity and its relation to extensional stress relaxation and filament recoil. Journal of Rheology, 2004, 48, 209-221.	1.3	19
272	Filament stretching rheometer: inertia compensation revisited. Rheologica Acta, 2003, 42, 269-272.	1.1	24
273	Scaling in pinch-off of generalized Newtonian fluids. Journal of Non-Newtonian Fluid Mechanics, 2003, 113, 1-27.	1.0	69
274	Superhydrophobic Carbon Nanotube Forests. Nano Letters, 2003, 3, 1701-1705.	4.5	1,527
275	Extensional stress growth and stress relaxation in entangled polymer solutions. Journal of Rheology, 2003, 47, 269-290.	1.3	83
276	Definitions of entanglement spacing and time constants in the tube model. Journal of Rheology, 2003, 47, 809-818.	1.3	216
277	Microscopic and Macroscopic Structure of the Precursor Layer in Spreading Viscous Drops. Physical Review Letters, 2003, 91, 196104.	2.9	107
278	Fiber coating with surfactant solutions. Physics of Fluids, 2002, 14, 4055-4068.	1.6	119
279	Electrophoretic Injection within Microdevices. Analytical Chemistry, 2002, 74, 1952-1961.	3.2	32
280	Extensional Rheometry of Entangled Solutions. Macromolecules, 2002, 35, 10131-10148.	2.2	154
281	FILAMENT-STRETCHINGRHEOMETRY OFCOMPLEXFLUIDS. Annual Review of Fluid Mechanics, 2002, 34, 375-415.	10.8	422
282	Inhomogeneous transient uniaxial extensional rheometry. Journal of Rheology, 2002, 46, 1419-1443.	1.3	39
283	A new model for dilute polymer solutions in flows with strong extensional components. Journal of Rheology, 2002, 46, 1057-1089.	1.3	24
284	The normal stress behaviour of suspensions with viscoelastic matrix fluids. Rheologica Acta, 2002, 41, 61-76.	1.1	120
285	Evaporatively-driven Marangoni instabilities of volatile liquid films spreading on thermally conductive substrates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 206, 409-423.	2.3	91
286	Electrophoresis using ultra-high voltages. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 779, 163-171.	1.2	7
287	Rheology of joint fluid in total knee arthroplasty patients. Journal of Orthopaedic Research, 2002, 20, 1157-1163.	1.2	98
288	Effect of viscous heating on linear stability of viscoelastic cone-and-plate flow: axisymmetric case. Journal of Non-Newtonian Fluid Mechanics, 2002, 102, 321-342.	1.0	23

#	Article	IF	Citations
289	A comparison of the stress and birefringence growth of dilute, semi-dilute and concentrated polymer solutions in uniaxial extensional flows. Journal of Non-Newtonian Fluid Mechanics, 2002, 108, 275-290.	1.0	47
290	BUCKLING INSTABILITIES IN THIN VISCOUS SHEETS. , 2002, , 249-249.		0
291	Elasto-capillary thinning and breakup of model elastic liquids. Journal of Rheology, 2001, 45, 115-138.	1.3	443
292	An interlaboratory comparison of measurements from filament-stretching rheometers using common test fluids. Journal of Rheology, 2001, 45, 83-114.	1.3	142
293	Deficiencies of FENE dumbbell models in describing the rapid stretching of dilute polymer solutions. Journal of Rheology, 2001, 45, 721-758.	1.3	50
294	Shear-Induced Degradation of Linear Polyacrylamide Solutions during Pre-Electrophoretic Loading. Analytical Chemistry, 2001, 73, 3035-3044.	3.2	28
295	Non-isothermal modification of purely elastic flow instabilities in torsional flows of polymeric fluids. Physics of Fluids, 2001, 13, 382-396.	1.6	34
296	The axisymmetric contractionâ€“expansion: the role of extensional rheology on vortex growth dynamics and the enhanced pressure drop. Journal of Non-Newtonian Fluid Mechanics, 2001, 98, 33-63.	1.0	174
297	72nd Annual Meeting of the Society of Rheology. Applied Rheology, 2001, 11, 153-154.	3.5	0
298	The stability of viscoelastic creeping plane shear flows with viscous heating. Journal of Non-Newtonian Fluid Mechanics, 2000, 92, 109-133.	1.0	31
299	Dynamics of weakly strain-hardening fluids in filament stretching devices. Journal of Non-Newtonian Fluid Mechanics, 2000, 89, 1-43.	1.0	61
300	Using filament stretching rheometry to predict strand formation and "processability" in adhesives and other non-Newtonian fluids. Rheologica Acta, 2000, 39, 321-337.	1.1	51
301	How to extract the Newtonian viscosity from capillary breakup measurements in a filament rheometer. Journal of Rheology, 2000, 44, 653-670.	1.3	304
302	Microrheometry for Studying the Rheology and Dynamics of Polymers Near Interfaces. Applied Rheology, 1999, 9, 27-33.	3.5	13
303	A compact dual-crystal modulated birefringence-measurement system for microgravity applications. Measurement Science and Technology, 1999, 10, 946-955.	1.4	26
304	Extensional flow of a polystyrene Boger fluid through a 4â€˜:â€˜1â€˜:â€˜4 axisymmetric contraction/expansion. Journal of Non-Newtonian Fluid Mechanics, 1999, 86, 61-88.	1.0	131
305	On controlling the kinematics of a filament stretching rheometer using a real-time active control mechanism. Journal of Non-Newtonian Fluid Mechanics, 1999, 87, 307-335.	1.0	38
306	EXPERIMENTAL INVESTIGATION OF THE DAMPING OF STRUCTURAL VIBRATIONS BY VORTICITY PRODUCTION. Journal of Sound and Vibration, 1999, 220, 297-312.	2.1	6

#	Article	IF	Citations
307	The ConsidÃ¨re condition and rapid stretching of linear and branched polymer melts. Journal of Rheology, 1999, 43, 1195-1212.	1.3	123
308	Rheological modelling of the peeling of pressure-sensitive adhesives and other elastomers. International Journal of Adhesion and Adhesives, 1998, 18, 333-343.	1.4	28
309	An experimental investigation of negative wakes behind spheres settling in a shear-thinning viscoelastic fluid. Rheologica Acta, 1998, 37, 307-327.	1.1	117
310	Extensional deformation of non-Newtonian liquid bridges. Computational Mechanics, 1998, 21, 461-476.	2.2	14
311	Numerical simulation of extensional deformations of viscoelastic liquid bridges in filament stretching devices. Journal of Non-Newtonian Fluid Mechanics, 1998, 74, 47-88.	1.0	106
312	Relaxation of dilute polymer solutions following extensional flow1Dedicated to the memory of Professor Gianni Astarita.1. Journal of Non-Newtonian Fluid Mechanics, 1998, 76, 79-110.	1.0	132
313	Extensional deformation, stress relaxation and necking failure of viscoelastic filaments. Journal of Non-Newtonian Fluid Mechanics, 1998, 79, 469-501.	1.0	79
314	Simultaneous Measurement of Viscoelasticity and Electrical Conductivity of an Electrorheological Fluid. Langmuir, 1998, 14, 985-989.	1.6	14
315	The experimental observation and modeling of an â€œOvaiciâ€•necklace and stickâ€“spurt instability arising during the cold extrusion of chocolate. Journal of Rheology, 1998, 42, 125-157.	1.3	28
316	Cavity flows of elastic liquids: Purely elastic instabilities. Physics of Fluids, 1998, 10, 1058-1070.	1.6	41
317	The Normal-Stress-Behaviour of Suspensions With Viscoelastic Matrix Fluids. , 1998, , 554-555.		6
318	Structural limitation to the material strength of electrorheological fluids. Applied Physics Letters, 1997, 71, 333-335.	1.5	28
319	Cavity flows of elastic liquids: Two-dimensional flows. Physics of Fluids, 1997, 9, 3123-3140.	1.6	50
320	The effects of viscoelasticity on the transient motion of a sphere in a shear-thinning fluid. Journal of Rheology, 1997, 41, 103-128.	1.3	36
321	Stability of planar stagnation flow of a highly viscoelastic fluid. Journal of Non-Newtonian Fluid Mechanics, 1997, 72, 1-29.	1.0	36
322	Digital particle imaging velocimetry of viscoelastic fluids. AICHE Journal, 1997, 43, 289-302.	1.8	13
323	Characteristics of Electrorheological Responses in an Emulsion System. Journal of Colloid and Interface Science, 1997, 195, 101-113.	5.0	56
324	Elastic Instability and Curved Streamlines. Physical Review Letters, 1996, 77, 2459-2462.	2.9	292

#	Article	IF	Citations
325	The nucleation of receptor-mediated endocytosis.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 1786-1791.	3.3	17
326	The role of end-effects on measurements of extensional viscosity in filament stretching rheometers. Journal of Non-Newtonian Fluid Mechanics, 1996, 64, 229-267.	1.0	144
327	The sedimentation of a sphere through an elastic fluid Part 2. Transient motion. Journal of Non-Newtonian Fluid Mechanics, 1996, 65, 17-46.	1.0	36
328	Sedimentation of a sphere near a plane wall: weak non-Newtonian and inertial effects. Journal of Non-Newtonian Fluid Mechanics, 1996, 63, 201-233.	1.0	55
329	Rheological and geometric scaling of purely elastic flow instabilities. Journal of Non-Newtonian Fluid Mechanics, 1996, 67, 19-47.	1.0	247
330	Stress relaxation and elastic decohesion of viscoelastic polymer solutions in extensional flow. Journal of Non-Newtonian Fluid Mechanics, 1996, 67, 49-76.	1.0	130
331	Extensional deformation of Newtonian liquid bridges. Physics of Fluids, 1996, 8, 2568-2579.	1.6	67
332	The sedimentation of a sphere through an elastic fluid. Part 1. Steady motion. Journal of Non-Newtonian Fluid Mechanics, 1995, 60, 225-257.	1.0	81
333	Self-similar spiral instabilities in elastic flows between a cone and a plate. Journal of Fluid Mechanics, 1995, 285, 123.	1.4	53
334	Report on the VIIIth international workshop on numerical methods in viscoelastic flows. Journal of Non-Newtonian Fluid Mechanics, 1994, 52, 407-413.	1.0	58
335	Quantitative prediction of the viscoelastic instability in cone-and-plate flow of a Boger fluid using a multi-mode Giesekus model. Journal of Non-Newtonian Fluid Mechanics, 1994, 54, 351-377.	1.0	49
336	Spiral instabilities in the flow of highly elastic fluids between rotating parallel disks. Journal of Fluid Mechanics, 1994, 271, 173-218.	1.4	93
337	The unsteady motion of a sphere in a viscoelastic fluid. Journal of Rheology, 1994, 38, 377-403.	1.3	55
338	The wake instability in viscoelastic flow past confined circular cylinders. Philosophical Transactions of the Royal Society: Physical and Engineering Sciences, 1993, 344, 265-304.	1.0	117
339	A Viscoelastic Flow Instability in the Wake of a Confined Circular Cylinder. , 1992, , 198-200.		1
340	Nonlinear dynamics of viscoelastic flow in axisymmetric abrupt contractions. Journal of Fluid Mechanics, 1991, 223, 411.	1.4	167
341	Observations on the elastic instability in cone-and-plate and parallel-plate flows of a polyisobutylene Boger fluid. Journal of Non-Newtonian Fluid Mechanics, 1991, 40, 201-229.	1.0	137
342	Modeling the rheology of polyisobutylene solutions. Journal of Rheology, 1990, 34, 705-748.	1.3	162

#	Article	IF	Citations
343	Recent Advances in Complex Fluids Modeling. , 0, , .		2
344	Video: Rotary fragmentation of viscoelastic liquids. , 0, , .		0