Gareth H Mckinley

List of Publications by Year
in descending order

344	35,054	2675 95	4015 176
papers	citations	h-index	g-index

353	353	353	23535
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rheo-chemistry of gelation in aiyu (fig) jelly. Food Hydrocolloids, 2022, 123, 107001.	10.7	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.	2.4	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, .	4.0	12
4	Finite volume simulations of particle-laden viscoelastic fluid flows: application to hydraulic fracture processes. Engineering With Computers, 2022, 38, 5395-5421.	6.1	11
5	On Oreology, the fracture and flow of â€œmilk's favorite cookieÂ®â€. Physics of Fluids, 2022, 34, .	4.0	8
6	10.1063/5.0085362.1. , 2022, , .		0
7	Versatile acid solvents for pristine carbon nanotube assembly. Science Advances, 2022, 8, eabm3285.	10.3	15
8	Computational rheometry of yielding and viscoplastic flow in vane-and-cup rheometer fixtures. Journal of Non-Newtonian Fluid Mechanics, 2022, 307, 104857.	2.4	5
9	In situ mechanical reinforcement of polymer hydrogels via metal-coordinated crosslink mineralization. Nature Communications, 2021, 12, 667.	12.8	60
10	Characterizing viscoelastic properties of synthetic and natural fibers and their coatings with a torsional pendulum. Soft Matter, 2021, 17, 4578-4593.	2.7	2
11	Crack morphologies in drying suspension drops. Soft Matter, 2021, 17, 8832-8837.	2.7	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, .	7.1	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.	2.4	11
14	Substrateâ€Versatile Directâ€Write Printing of Carbon Nanotubeâ€Based Flexible Conductors, Circuits, and Sensors. Advanced Functional Materials, 2021, 31, 2100245.	14.9	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.	14.9	1
16	Levitation of fizzy drops. Science Advances, 2021, 7, .	10.3	11
17	Spectral Universality of Elastoinertial Turbulence. Physical Review Letters, 2021, 127, 074501.	7.8	21
18	Medium amplitude parallel superposition (MAPS) rheology of a wormlike micellar solution. Rheologica Acta, 2021, 60, 729-739.	2.4	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.	2.4	5
20	Low-cost manganese dioxide semi-solid electrode for flow batteries. Joule, 2021, 5, 2934-2954.	24.0	38
21	Incorporating Rheological Nonlinearity into Fractional Calculus Descriptions of Fractal Matter and Multi-Scale Complex Fluids. Fractal and Fractional, 2021, 5, 174.	3.3	16
22	Polymers and Plastrons in Parallel Yield Enhanced Turbulent Drag Reduction. Fluids, 2020, 5, 197.	1.7	4
23	Medium amplitude parallel superposition (MAPS) rheology. Part 2: Experimental protocols and data analysis. Journal of Rheology, 2020, 64, 1263-1293.	2.6	11
24	Programmable Anisotropy and Percolation in Supramolecular Patchy Particle Gels. ACS Nano, 2020, 14, 17018-17027.	14.6	21
25	High-energy and high-power Znâ€“Ni flow batteries with semi-solid electrodes. Sustainable Energy and Fuels, 2020, 4, 4076-4085.	4.9	14
26	Lubricant-Impregnated Surfaces for Mitigating Asphaltene Deposition. ACS Applied Materials & Interfaces, 2020, 12, 28750-28758.	8.0	5
27	Stress decomposition in LAOS of dense colloidal suspensions. Journal of Rheology, 2020, 64, 343-351.	2.6	18
28	Medium amplitude parallel superposition (MAPS) rheology. Part 1: Mathematical framework and theoretical examples. Journal of Rheology, 2020, 64, 551-579.	2.6	19
29	Improved rheometry of yield stress fluids using bespoke fractal 3D printed vanes. Journal of Rheology, 2020, 64, 643-662.	2.6	32
30	Asphaltene Adsorption on Functionalized Solids. Langmuir, 2020, 36, 3894-3902.	3.5	12
31	Time-rate-transformation framework for targeted assembly of short-range attractive colloidal suspensions. Materials Today Advances, 2020, 5, 100026.	5.2	24
32	Rotary atomization of Newtonian and viscoelastic liquids. Physical Review Fluids, 2020, 5, .	2.5	16
33	Cooperative drag reduction in turbulent flows using polymer additives and superhydrophobic walls. Physical Review Fluids, 2020, 5, .	2.5	18
34	Geometry mediated friction reduction in Taylor-Couette flow. Physical Review Fluids, 2020, 5, .	2.5	5
35	Anti-fatigue-fracture hydrogels. Science Advances, 2019, 5, eaau8528.	10.3	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.	7.1	18

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37	A generalised Phanâ€“Thienâ€”Tanner model. Journal of Non-Newtonian Fluid Mechanics, 2019, 269, 88-99.	2.4	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.	7.1	53
39	Geometric optimization of riblet-textured surfaces for drag reduction in laminar boundary layer flows. Physics of Fluids, 2019, 31, .	4.0	34
40	Shear melting and recovery of crosslinkable cellulose nanocrystalâ€“polymer gels. Soft Matter, 2019, 15, 4401-4412.	2.7	12
41	Influence of textural statistics on drag reduction by scalable, randomly rough superhydrophobic surfaces in turbulent flow. Physics of Fluids, 2019, 31, .	4.0	59
42	Editorial: Viscoplastic fluids: From theory to application. Journal of Non-Newtonian Fluid Mechanics, 2019, 265, 140-142.	2.4	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.	2.4	35
44	Multiscale Nature of Thixotropy and Rheological Hysteresis in Attractive Colloidal Suspensions under Shear. Physical Review Letters, 2019, 123, 248003.	7.8	32
45	Epidermal biopolysaccharides from plant seeds enable biodegradable turbulent drag reduction. Scientific Reports, 2019, 9, 18263.	3.3	15
46	A canonical framework for modeling elasto-viscoplasticity in complex fluids. Journal of Non-Newtonian Fluid Mechanics, 2019, 265, 116-132.	2.4	42
47	Time-resolved dynamics of the yielding transition in soft materials. Journal of Non-Newtonian Fluid Mechanics, 2019, 264, 117-134.	2.4	64
48	Reduced adhesion of sparkling water droplets. Physical Review Fluids, 2019, 4, .	2.5	9
49	Viscoelastic fishbones. Physical Review Fluids, 2019, 4, .	2.5	2
50	Thin films in partial wetting: stability, dewetting and coarsening. Journal of Fluid Mechanics, 2018, 845, 642-681.	3.4	41
51	Scalable and durable polymeric icephobic and hydrate-phobic coatings. Soft Matter, 2018, 14, 3443-3454.	2.7	47
52	Time-Resolved Mechanical Spectroscopy of Soft Materials via Optimally Windowed Chirps. Physical Review X, 2018, 8, .	8.9	21
53	Plastron Regeneration on Submerged Superhydrophobic Surfaces Using In Situ Gas Generation by Chemical Reaction. ACS Applied Materials & Interfaces, 2018, 10, 33684-33692.	8.0	47
54	Enhancing the Performance of Viscous Electrode-Based Flow Batteries Using Lubricant-Impregnated Surfaces. ACS Applied Energy Materials, 2018, 1, 3614-3621.	5.1	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.	2.5	21
56	Computing the linear viscoelastic properties of soft gels using an optimally windowed chirp protocol. Journal of Rheology, 2018, 62, 1037-1050.	2.6	28
57	Fog Water Collection Effectiveness: Mesh Intercomparisons. Aerosol and Air Quality Research, 2018, 18, 270-283.	2.1	63
58	Describing the firmness, springiness and rubberiness of food gels using fractional calculus. Part I: Theoretical framework. Food Hydrocolloids, 2017, 62, 311-324.	10.7	48
59	Quantifying the consistency and rheology of liquid foods using fractional calculus. Food Hydrocolloids, 2017, 69, 242-254.	10.7	40
60	Superoleophilic Titania Nanoparticle Coatings with Fast Fingerprint Decomposition and High Transparency. ACS Applied Materials & Interfaces, 2017, 9, 8354-8360.	8.0	12
61	Microstructural Rearrangements and their Rheological Implications in a Model Thixotropic Elastoviscoplastic Fluid. Physical Review Letters, 2017, 118, 048003.	7.8	59
62	Visible light guided manipulation of liquid wettability on photoresponsive surfaces. Nature Communications, 2017, 8, 14968.	12.8	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.	3.3	57
64	Nonlinear Viscoelasticity and Generalized Failure Criterion for Polymer Gels. ACS Macro Letters, 2017, 6, 663-667.	4.8	40
65	Mapping thixo-elasto-visco-plastic behavior. Rheologica Acta, 2017, 56, 195-210.	2.4	79
66	Thermokinematic memory and the thixotropic elasto-viscoplasticity of waxy crude oils. Journal of Rheology, 2017, 61, 427-454.	2.6	75
67	Icephobic Surfaces Induced by Interfacial Nonfrozen Water. ACS Applied Materials & Interfaces, 2017, 9, 4202-4214.	8.0	138
68	Drag reduction using wrinkled surfaces in high Reynolds number laminar boundary layer flows. Physics of Fluids, 2017, 29, .	4.0	49
69	Age-dependent capillary thinning dynamics of physically-associated salivary mucin networks. Journal of Rheology, 2017, 61, 1309-1326.	2.6	10
70	Kinetics of Photoinduced Wettability Switching on Nanoporous Titania Surfaces under Oil. Advanced Materials Interfaces, 2017, 4, 1700462.	3.7	16
71	A Rheological Study of the Association and Dynamics of MUC5AC Gels. Biomacromolecules, 2017, 18, 3654-3664.	5.4	122
72	Stable Wettability Control of Nanoporous Microstructures by iCVD Coating of Carbon Nanotubes. ACS Applied Materials & Interfaces, 2017, 9, 43287-43299.	8.0	46

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73	Thermal delay of drop coalescence. Journal of Fluid Mechanics, 2017, 833, .	3.4	38
74	Rheology as a Mechanoscopic Method to Monitor Mineralization in Hydrogels. Biomacromolecules, 2017, 18, 4067-4074.	5.4	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.	10.7	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.	7.1	19
77	Micro-scale extensional rheometry using hyperbolic converging/diverging channels and jet breakup. Biomicrofluidics, 2016, 10, 043502.	2.4	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.	3.4	83
79	Simultaneous Rheoelectric Measurements of Strongly Conductive Complex Fluids. Physical Review Applied, 2016, 6, .	3.8	56
80	Ultrathin high-resolution flexographic printing using nanoporous stamps. Science Advances, 2016, 2, e1601660.	10.3	89
81	Complex Fluids and Hydraulic Fracturing. Annual Review of Chemical and Biomolecular Engineering, 2016, 7, 415-453.	6.8	141
82	A low-dissipation, pumpless, gravity-induced flow battery. Energy and Environmental Science, 2016, 9, 1760-1770.	30.8	39
83	Coupled dynamics of flow, microstructure, and conductivity in sheared suspensions. Soft Matter, 2016, 12, 7688-7697.	2.7	8
84	Ligament Mediated Fragmentation of Viscoelastic Liquids. Physical Review Letters, 2016, 117, 154502.	7.8	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.	2.4	19
86	Yield Hardening of Electrorheological Fluids in Channel Flow. Physical Review Applied, 2016, 5, .	3.8	10
87	Elastic instabilities in planar elongational flow of monodisperse polymer solutions. Scientific Reports, 2016, 6, 33029.	3.3	80
88	Sustained drag reduction in a turbulent flow using a low-temperature Leidenfrost surface. Science Advances, 2016, 2, e1600686.	10.3	92
89	The importance of flow history in mixed shear and extensional flows. Journal of Non-Newtonian Fluid Mechanics, 2016, 233, 133-145.	2.4	19
90	Durable and scalable icephobic surfaces: similarities and distinctions from superhydrophobic surfaces. Soft Matter, 2016, 12, 1938-1963.	2.7	272

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91	Dynamics of particle migration in channel flow of viscoelastic fluids. Journal of Fluid Mechanics, 2015, 785, 486-505.	3.4	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.	19.5	0
93	Mobility of power-law and Carreau fluids through fibrous media. Physical Review E, 2015, 92, 063012.	2.1	30
94	Layer-by-layer functionalized nanotube arrays: A versatile microfluidic platform for biodetection. Microsystems and Nanoengineering, 2015, 1, .	7.0	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.	2.4	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.	19.5	76
97	Investigation into the Formation and Adhesion of Cyclopentane Hydrates on Mechanically Robust Vapor-Deposited Polymeric Coatings. Langmuir, 2015, 31, 6186-6196.	3.5	46
98	Designing Durable Vaporâ€Deposited Surfaces for Reduced Hydrate Adhesion. Advanced Materials Interfaces, 2015, 2, 1500003.	3.7	43
99	Celebrating Soft Matter's 10th Anniversary: Chain configuration and rate-dependent mechanical properties in transient networks. Soft Matter, 2015, 11, 2085-2096.	2.7	32
100	Probing hydrogen bond interactions in a shear thickening polysaccharide using nonlinear shear and extensional rheology. Carbohydrate Polymers, 2015, 123, 136-145.	10.2	40
101	Sustainable Drag Reduction in Turbulent Taylor-Couette Flows by Depositing Sprayable Superhydrophobic Surfaces. Physical Review Letters, 2015, 114, 014501.	7.8	145
102	An analytic solution for capillary thinning and breakup of FENE-P fluids. Journal of Non-Newtonian Fluid Mechanics, 2015, 218, 53-61.	2.4	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.	2.4	109
104	Thin Films in Partial Wetting: Internal Selection of Contact-Line Dynamics. Physical Review Letters, 2015, 115, 034502.	7.8	22
105	Linker-free grafting of fluorinated polymeric cross-linked network bilayers for durable reduction of ice adhesion. Materials Horizons, 2015, 2, 91-99.	12.2	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.	2.7	82
107	Quantitative polarized light microscopy of human cochlear sections. Biomedical Optics Express, 2015, 6, 599.	2.9	10
108	Designing Robust Hierarchically Textured Oleophobic Fabrics. Langmuir, 2015, 31, 13201-13213.	3.5	21

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109	Viscosity and Thermal Conductivity of Stable Graphite Suspensions Near Percolation. Nano Letters, 2015, 15, 127-133.	9.1	32
110	Surface Tension of Seawater. Journal of Physical and Chemical Reference Data, 2014, 43, .	4.2	78
111	An analytical solution to the extended Navierâ€“Stokes equations using the Lambert W function. AICHE Journal, 2014, 60, 1413-1423.	3.6	10
112	Inertio-elastic focusing of bioparticles in microchannels at high throughput. Nature Communications, 2014, 5, 4120.	12.8	173
113	Polysulfide Flow Batteries Enabled by Percolating Nanoscale Conductor Networks. Nano Letters, 2014, 14, 2210-2218.	9.1	201
114	Metal-coordination: using one of nature's tricks to control soft material mechanics. Journal of Materials Chemistry B, 2014, 2, 2467-2472.	5.8	178
115	Response to: Sufficiently entangled polymers do show shear strain localization at high enough Weissenberg numbersâ€. Journal of Rheology, 2014, 58, 1071-1082.	2.6	24
116	A fractional K-BKZ constitutive formulation for describing the nonlinear rheology of multiscale complex fluids. Journal of Rheology, 2014, 58, 1751-1788.	2.6	86
117	A comprehensive constitutive law for waxy crude oil: a thixotropic yield stress fluid. Soft Matter, 2014, 10, 6619-6644.	2.7	183
118	Multifunctional Inverted Nanocone Arrays for Nonâ€Wetting, Selfâ€Cleaning Transparent Surface with High Mechanical Robustness. Small, 2014, 10, 2487-2494.	10.0	75
119	Dispersity and spinnability: Why highly polydisperse polymer solutions are desirable for electrospinning. Polymer, 2014, 55, 4920-4931.	3.8	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.	8.0	217
121	Shear-Thinning Nanocomposite Hydrogels for the Treatment of Hemorrhage. ACS Nano, 2014, 8, 9833-9842.	14.6	318
122	Quantification of feather structure, wettability and resistance to liquid penetration. Journal of the Royal Society Interface, 2014, 11, 20140287.	3.4	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.	2.4	37
124	Interception efficiency in two-dimensional flow past confined porous cylinders. Chemical Engineering Science, 2014, 116, 752-762.	3.8	12
125	Dropwise Condensation of Low Surface Tension Fluids on Omniphobic Surfaces. Scientific Reports, 2014, 4, 4158.	3.3	173
126	High-flux magnetorheology at elevated temperatures. Rheologica Acta, 2013, 52, 623-641.	2.4	19

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127	Microfluidic extensional rheometry using a hyperbolic contraction geometry. Rheologica Acta, 2013, 52, 529-546.	2.4	113
128	Optimal Design of Permeable Fiber Network Structures for Fog Harvesting. Langmuir, 2013, 29, 13269-13277.	3.5	330
129	Flow field visualization of entangled polybutadiene solutions under nonlinear viscoelastic flow conditions. Journal of Rheology, 2013, 57, 1411-1428.	2.6	57
130	Utilizing Dynamic Tensiometry to Quantify Contact Angle Hysteresis and Wetting State Transitions on Nonwetting Surfaces. Langmuir, 2013, 29, 13396-13406.	3.5	26
131	Structure evolution in electrorheological fluids flowing through microchannels. Soft Matter, 2013, 9, 2889.	2.7	22
132	Exploring the kinetics of switchable polymer surfaces with dynamic tensiometry. Soft Matter, 2013, 9, 6080.	2.7	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.	2.6	218
134	Rapid viscoelastic switching of an ambient temperature range photo-responsive azobenzene side chain liquid crystal polymer. Polymer, 2013, 54, 2850-2856.	3.8	19
135	Droplet mobility on lubricant-impregnated surfaces. Soft Matter, 2013, 9, 1772-1780.	2.7	810
136	Drag reduction for viscous laminar flow on spray-coated non-wetting surfaces. Soft Matter, 2013, 9, 5691.	2.7	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.	2.1	191
139	Quantitative polarized light microscopy of unstained mammalian cochlear sections. Journal of Biomedical Optics, 2013, 18, 026021.	2.6	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.	2.0	18
141	Capillary Breakup of Discontinuously Rate Thickening Suspensions. Physical Review Letters, 2013, 111, 036001.	7.8	8
142	Extensional flow of hyaluronic acid solutions in an optimized microfluidic cross-slot device. Biomicrofluidics, 2013, 7, 044108.	2.4	68
143	Instabilities in stagnation point flows of polymer solutions. Physics of Fluids, 2013, 25, .	4.0	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.	0.7	13

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145	Cervical Mucus Properties Stratify Risk for Preterm Birth. PLoS ONE, 2013, 8, e69528.	2.5	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.	2.5	8
147	Optimized Cross-Slot Flow Geometry for Microfluidic Extensional Rheometry. Physical Review Letters, 2012, 109, 128301.	7.8	116
148	Multiple Shear-Banding Transitions for a Model of Wormlike Micellar Solutions. SIAM Journal on Applied Mathematics, 2012, 72, 1192-1212.	1.8	24
149	Arrested Chain Growth During Magnetic Directed Particle Assembly in Yield Stress Matrix Fluids. Langmuir, 2012, 28, 3683-3689.	3.5	15
150	Hydrate-phobic surfaces: fundamental studies in clathrate hydrate adhesion reduction. Physical Chemistry Chemical Physics, 2012, 14, 6013.	2.8	72
151	Extensional rheology and elastic instabilities of a wormlike micellar solution in a microfluidic cross-slot device. Soft Matter, 2012, 8, 536-555.	2.7	95
152	Interplay between elastic instabilities and shear-banding: three categories of Taylorâ€“Couette flows and beyond. Soft Matter, 2012, 8, 10072.	2.7	47
153	Shear and Extensional Rheology of Cellulose/Ionic Liquid Solutions. Biomacromolecules, 2012, 13, 1688-1699.	5.4	154
154	Nanotextured Silica Surfaces with Robust Superhydrophobicity and Omnidirectional Broadband Supertransmissivity. ACS Nano, 2012, 6, 3789-3799.	14.6	378
155	Shear-banding in surfactant wormlike micelles: elastic instabilities and wall slip. Soft Matter, 2012, 8, 2535.	2.7	56
156	Superoleophobic Surfaces through Control of Sprayed-on Stochastic Topography. Langmuir, 2012, 28, 9834-9841.	3.5	75
157	Potential â€œways of thinkingâ€•about the shear-banding phenomenon. Soft Matter, 2012, 8, 910-922.	2.7	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.	2.1	64
159	Visualization of microscale particle focusing in diluted and whole blood using particle trajectory analysis. Lab on A Chip, 2012, 12, 2199.	6.0	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.	2.4	40
161	Rheo-PIV of a shear-banding wormlike micellar solution under large amplitude oscillatory shear. Rheologica Acta, 2012, 51, 395-411.	2.4	49
162	Magnetorheology in an aging, yield stress matrix fluid. Rheologica Acta, 2012, 51, 579-593.	2.4	38

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163	Constant force extensional rheometry of polymer solutions. Journal of Non-Newtonian Fluid Mechanics, 2012, 169-170, 26-41.	2.4	28
164	Nonlinear microrheology of an aging, yield stress fluid using magnetic tweezers. Soft Matter, 2011, 7, 9933.	2.7	55
165	Microrheometry of sub-nanolitre biopolymer samples: non-Newtonian flow phenomena of carnivorous plant mucilage. Soft Matter, 2011, 7, 10889.	2.7	54
166	Criterion for purely elastic Taylor-Couette instability in the flows of shear-banding fluids. Europhysics Letters, 2011, 96, 44004.	2.0	33
167	Rheo-PIV Analysis of the Yielding and Flow of Model Waxy Crude Oils. Energy & Fuels, 2011, 25, 3040-3052.	5.1	72
168	Large amplitude oscillatory shear flow of gluten dough: A model power-law gel. Journal of Rheology, 2011, 55, 627-654.	2.6	135
169	Examination of wettability and surface energy in fluorodecyl POSS/polymer blends. Soft Matter, 2011, 7, 10122.	2.7	46
170	Wolfgang von Ohnesorge. Physics of Fluids, 2011, 23, .	4.0	163
171	Assessing the Accuracy of Contact Angle Measurements for Sessile Drops on Liquid-Repellent Surfaces. Langmuir, 2011, 27, 13582-13589.	3.5	119
172	Size dependence of microprobe dynamics during gelation of a discotic colloidal clay. Journal of Rheology, 2011, 55, 273-299.	2.6	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.	2.7	160
174	Spatially resolved quantitative rheo-optics of complex fluids in a microfluidic device. Journal of Rheology, 2011, 55, 1127-1159.	2.6	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.	24.7	1,109
176	Interfacial viscoelasticity, yielding and creep ringing of globular proteinâ€“surfactant mixtures. Soft Matter, 2011, 7, 7623.	2.7	64
177	Pressure-driven flow of wormlike micellar solutions in rectilinear microchannels. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 180-193.	2.4	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.	2.4	18
179	Characterization and modeling of direct-write fabrication of microscale polymer fibers. Polymer, 2011, 52, 1654-1661.	3.8	28
180	Solution spraying of poly(methyl methacrylate) blends to fabricate microtextured, superoleophobic surfaces. Polymer, 2011, 52, 3209-3218.	3.8	179

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181	Controllable adhesion using field-activated fluids. Physics of Fluids, 2011, 23, .	4.0	37
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