

Gareth H Mckinley

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332
papers

28,939
citations

90
h-index

160
g-index

352
ext. papers

31,921
ext. citations

5.5
avg, IF

7.33
L-index

#	Paper	IF	Citations
332	Designing superoleophobic surfaces. <i>Science</i> , 2007 , 318, 1618-22	33.3	2287
331	Superhydrophobic Carbon Nanotube Forests. <i>Nano Letters</i> , 2003 , 3, 1701-1705	11.5	1401
330	Robust omniphobic surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18200-5	11.5	891
329	A review of nonlinear oscillatory shear tests: Analysis and application of large amplitude oscillatory shear (LAOS). <i>Progress in Polymer Science</i> , 2011 , 36, 1697-1753	29.6	852
328	Droplet mobility on lubricant-impregnated surfaces. <i>Soft Matter</i> , 2013 , 9, 1772-1780	3.6	642
327	New measures for characterizing nonlinear viscoelasticity in large amplitude oscillatory shear. <i>Journal of Rheology</i> , 2008 , 52, 1427-1458	4.1	613
326	Relationships between water wettability and ice adhesion. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3100-10	9.5	538
325	A modified Cassie-Baxter relationship to explain contact angle hysteresis and anisotropy on non-wetting textured surfaces. <i>Journal of Colloid and Interface Science</i> , 2009 , 339, 208-16	9.3	394
324	Elasto-capillary thinning and breakup of model elastic liquids. <i>Journal of Rheology</i> , 2001 , 45, 115-138	4.1	378
323	FILAMENT-STRETCHING RHEOMETRY OF COMPLEX FLUIDS. <i>Annual Review of Fluid Mechanics</i> , 2002 , 34, 375-415	22	375
322	Fabrics with Tunable Oleophobicity. <i>Advanced Materials</i> , 2009 , 21, 2190-2195	24	327
321	Nanotextured silica surfaces with robust superhydrophobicity and omnidirectional broadband supertransmissivity. <i>ACS Nano</i> , 2012 , 6, 3789-99	16.7	313
320	Enhanced thermal conductivity and viscosity of copper nanoparticles in ethylene glycol nanofluid. <i>Journal of Applied Physics</i> , 2008 , 103, 074301	2.5	311
319	Exploiting topographical texture to impart icephobicity. <i>ACS Nano</i> , 2010 , 4, 7048-52	16.7	301
318	High-performance elastomeric nanocomposites via solvent-exchange processing. <i>Nature Materials</i> , 2007 , 6, 76-83	27	287
317	Design Parameters for Superhydrophobicity and Superoleophobicity. <i>MRS Bulletin</i> , 2008 , 33, 752-758	3.2	285
316	Inductively heated shape memory polymer for the magnetic actuation of medical devices. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 2075-83	5	278

315	Helicobacter pylori moves through mucus by reducing mucin viscoelasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 14321-6	11.5	269
314	Drop formation and breakup of low viscosity elastic fluids: Effects of molecular weight and concentration. <i>Physics of Fluids</i> , 2006 , 18, 043101	4.4	269
313	The inertio-elastic planar entry flow of low-viscosity elastic fluids in micro-fabricated geometries. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2005 , 129, 1-22	2.7	258
312	How to extract the Newtonian viscosity from capillary breakup measurements in a filament rheometer. <i>Journal of Rheology</i> , 2000 , 44, 653-670	4.1	250
311	Capillary Break-up Rheometry of Low-Viscosity Elastic Fluids. <i>Applied Rheology</i> , 2005 , 15, 12-27	1.2	244
310	Shear-thinning nanocomposite hydrogels for the treatment of hemorrhage. <i>ACS Nano</i> , 2014 , 8, 9833-42	16.7	236
309	Elastic Instability and Curved Streamlines. <i>Physical Review Letters</i> , 1996 , 77, 2459-2462	7.4	229
308	Optimal design of permeable fiber network structures for fog harvesting. <i>Langmuir</i> , 2013 , 29, 13269-77	4	226
307	Formation of beads-on-a-string structures during break-up of viscoelastic filaments. <i>Nature Physics</i> , 2010 , 6, 625-631	16.2	225
306	Durable and scalable icephobic surfaces: similarities and distinctions from superhydrophobic surfaces. <i>Soft Matter</i> , 2016 , 12, 1938-63	3.6	207
305	Thermomechanical Properties of Poly(methyl methacrylate)s Containing Tethered and Untethered Polyhedral Oligomeric Silsesquioxanes. <i>Macromolecules</i> , 2004 , 37, 8992-9004	5.5	203
304	How dilute are dilute solutions in extensional flows?. <i>Journal of Rheology</i> , 2006 , 50, 849-881	4.1	202
303	Large amplitude oscillatory shear of pseudoplastic and elastoviscoplastic materials. <i>Rheologica Acta</i> , 2010 , 49, 191-212	2.3	201
302	Rheology and Dynamics of Associative Polymers in Shear and Extension: Theory and Experiments. <i>Macromolecules</i> , 2006 , 39, 1981-1999	5.5	197
301	Rheological and geometric scaling of purely elastic flow instabilities. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1996 , 67, 19-47	2.7	197
300	Rheology of gastric mucin exhibits a pH-dependent sol-gel transition. <i>Biomacromolecules</i> , 2007 , 8, 1580-6.9	6.9	190
299	Definitions of entanglement spacing and time constants in the tube model. <i>Journal of Rheology</i> , 2003 , 47, 809-818	4.1	190
298	Microfluidic rheometry. <i>Mechanics Research Communications</i> , 2009 , 36, 110-120	2.2	189

297	Role of the elasticity number in the entry flow of dilute polymer solutions in micro-fabricated contraction geometries. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007 , 143, 170-191	2.7	188
296	Study of factors governing oil-water separation process using TiO ₂ films prepared by spray deposition of nanoparticle dispersions. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 13422-9	9.5	181
295	The beads-on-string structure of viscoelastic threads. <i>Journal of Fluid Mechanics</i> , 2006 , 556, 283	3.7	180
294	Polysulfide flow batteries enabled by percolating nanoscale conductor networks. <i>Nano Letters</i> , 2014 , 14, 2210-8	11.5	178
293	Describing and prescribing the constitutive response of yield stress fluids using large amplitude oscillatory shear stress (LAOStress). <i>Journal of Rheology</i> , 2013 , 57, 27-70	4.1	177
292	High shear rate viscometry. <i>Rheologica Acta</i> , 2008 , 47, 621-642	2.3	172
291	Measuring the transient extensional rheology of polyethylene melts using the SER universal testing platform. <i>Journal of Rheology</i> , 2005 , 49, 585-606	4.1	168
290	Solution spraying of poly(methyl methacrylate) blends to fabricate microtextured, superoleophobic surfaces. <i>Polymer</i> , 2011 , 52, 3209-3218	3.9	160
289	Rheological fingerprinting of gastropod pedal mucus and synthetic complex fluids for biomimicking adhesive locomotion. <i>Soft Matter</i> , 2007 , 3, 634-643	3.6	160
288	Toughened poly(methyl methacrylate) nanocomposites by incorporating polyhedral oligomeric silsesquioxanes. <i>Polymer</i> , 2006 , 47, 299-309	3.9	159
287	Anti-fatigue-fracture hydrogels. <i>Science Advances</i> , 2019 , 5, eaau8528	14.3	155
286	Metal-coordination: Using one of nature's tricks to control soft material mechanics. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 2467-2472	7.3	154
285	Nonlinear dynamics of viscoelastic flow in axisymmetric abrupt contractions. <i>Journal of Fluid Mechanics</i> , 1991 , 223, 411	3.7	152
284	The axisymmetric contraction-expansion: the role of extensional rheology on vortex growth dynamics and the enhanced pressure drop. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2001 , 98, 33-63	2.7	149
283	Inertio-elastic focusing of bioparticles in microchannels at high throughput. <i>Nature Communications</i> , 2014 , 5, 4120	17.4	148
282	Modeling the rheology of polyisobutylene solutions. <i>Journal of Rheology</i> , 1990 , 34, 705-748	4.1	146
281	Power-law rheology in the bulk and at the interface: quasi-properties and fractional constitutive equations. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013 , 469, 20120284	2.4	143
280	Miscibility and viscoelastic properties of acrylic polyhedral oligomeric silsesquioxane-poly(methyl methacrylate) blends. <i>Polymer</i> , 2005 , 46, 4743-4752	3.9	141

279	A comprehensive constitutive law for waxy crude oil: a thixotropic yield stress fluid. <i>Soft Matter</i> , 2014 , 10, 6619-44	3.6	138
278	Extensional Rheometry of Entangled Solutions. <i>Macromolecules</i> , 2002 , 35, 10131-10148	5.5	137
277	Rheology of globular proteins: apparent yield stress, high shear rate viscosity and interfacial viscoelasticity of bovine serum albumin solutions. <i>Soft Matter</i> , 2011 , 7, 5150	3.6	135
276	The role of end-effects on measurements of extensional viscosity in filament stretching rheometers. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1996 , 64, 229-267	2.7	135
275	Shear and extensional rheology of cellulose/ionic liquid solutions. <i>Biomacromolecules</i> , 2012 , 13, 1688-996.9		132
274	Dropwise condensation of low surface tension fluids on omniphobic surfaces. <i>Scientific Reports</i> , 2014 , 4, 4158	4.9	129
273	Power law gels at finite strains: The nonlinear rheology of gluten gels. <i>Journal of Rheology</i> , 2008 , 52, 417-449	4.1	128
272	An interlaboratory comparison of measurements from filament-stretching rheometers using common test fluids. <i>Journal of Rheology</i> , 2001 , 45, 83-114	4.1	127
271	Observations on the elastic instability in cone-and-plate and parallel-plate flows of a polyisobutylene Boger fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1991 , 40, 201-229	2.7	127
270	Marangoni convection in droplets on superhydrophobic surfaces. <i>Journal of Fluid Mechanics</i> , 2009 , 624, 101-123	3.7	124
269	Relaxation of dilute polymer solutions following extensional flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1998 , 76, 79-110	2.7	123
268	Scale dependence of omniphobic mesh surfaces. <i>Langmuir</i> , 2010 , 26, 4027-35	4	121
267	Elongational viscosity of monodisperse and bidisperse polystyrene melts. <i>Journal of Rheology</i> , 2006 , 50, 453-476	4.1	120
266	Stress relaxation and elastic decohesion of viscoelastic polymer solutions in extensional flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1996 , 67, 49-76	2.7	120
265	Sustainable drag reduction in turbulent Taylor-Couette flows by depositing sprayable superhydrophobic surfaces. <i>Physical Review Letters</i> , 2015 , 114, 014501	7.4	119
264	Controlling the location and spatial extent of nanobubbles using hydrophobically nanopatterned surfaces. <i>Nano Letters</i> , 2005 , 5, 1751-6	11.5	118
263	Iterated stretching and multiple beads-on-a-string phenomena in dilute solutions of highly extensible flexible polymers. <i>Physics of Fluids</i> , 2005 , 17, 071704	4.4	118
262	Nonlinear shear and extensional flow dynamics of wormlike surfactant solutions. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2006 , 133, 73-90	2.7	117

261	Wolfgang von Ohnesorge. <i>Physics of Fluids</i> , 2011 , 23, 127101	4.4	116
260	A network scission model for wormlike micellar solutions. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007 , 144, 122-139	2.7	110
259	Extensional flow of a polystyrene Boger fluid through a 4 : 1 : 4 axisymmetric contraction/expansion. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1999 , 86, 61-88	2.7	109
258	The wake instability in viscoelastic flow past confined circular cylinders. <i>Philosophical Transactions of the Royal Society: Physical and Engineering Sciences</i> , 1993 , 344, 265-304		108
257	Drag reduction for viscous laminar flow on spray-coated non-wetting surfaces. <i>Soft Matter</i> , 2013 , 9, 5691-5696	3.6	106
256	Iterated stretching, extensional rheology and formation of beads-on-a-string structures in polymer solutions. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2006 , 137, 137-148	2.7	105
255	The Considère condition and rapid stretching of linear and branched polymer melts. <i>Journal of Rheology</i> , 1999 , 43, 1195-1212	4.1	105
254	Large amplitude oscillatory shear flow of gluten dough: A model power-law gel. <i>Journal of Rheology</i> , 2011 , 55, 627-654	4.1	103
253	The normal stress behaviour of suspensions with viscoelastic matrix fluids. <i>Rheologica Acta</i> , 2002 , 41, 61-76	2.3	103
252	Fiber coating with surfactant solutions. <i>Physics of Fluids</i> , 2002 , 14, 4055-4068	4.4	102
251	Assessing the accuracy of contact angle measurements for sessile drops on liquid-repellent surfaces. <i>Langmuir</i> , 2011 , 27, 13582-9	4	100
250	On secondary loops in LAOS via self-intersection of Lissajous-Bowditch curves. <i>Rheologica Acta</i> , 2010 , 49, 213-219	2.3	100
249	An experimental investigation of negative wakes behind spheres settling in a shear-thinning viscoelastic fluid. <i>Rheologica Acta</i> , 1998 , 37, 307-327	2.3	100
248	Microfluidic extensional rheometry using a hyperbolic contraction geometry. <i>Rheologica Acta</i> , 2013 , 52, 529-546	2.3	98
247	Complex Fluids and Hydraulic Fracturing. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2016 , 7, 415-53	8.9	98
246	Numerical simulation of extensional deformations of viscoelastic liquid bridges in filament stretching devices. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1998 , 74, 47-88	2.7	95
245	Icephobic Surfaces Induced by Interfacial Nonfrozen Water. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4202-4214	9.5	94
244	Optimized cross-slot flow geometry for microfluidic extensional rheometry. <i>Physical Review Letters</i> , 2012 , 109, 128301	7.4	93

243	Viscous flow through microfabricated hyperbolic contractions. <i>Experiments in Fluids</i> , 2007 , 43, 437-451	2.5	92
242	Microscopic and macroscopic structure of the precursor layer in spreading viscous drops. <i>Physical Review Letters</i> , 2003 , 91, 196104	7.4	90
241	Studying the effects of elongational properties on atomization of weakly viscoelastic solutions using Rayleigh Ohnesorge Jetting Extensional Rheometry (ROJER). <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015 , 222, 171-189	2.7	89
240	Rheology of joint fluid in total knee arthroplasty patients. <i>Journal of Orthopaedic Research</i> , 2002 , 20, 1157-63	3.8	84
239	Spiral instabilities in the flow of highly elastic fluids between rotating parallel disks. <i>Journal of Fluid Mechanics</i> , 1994 , 271, 173-218	3.7	84
238	Ex vivo rheology of spider silk. <i>Journal of Experimental Biology</i> , 2006 , 209, 4355-62	3	83
237	Extensional rheology and elastic instabilities of a wormlike micellar solution in a microfluidic cross-slot device. <i>Soft Matter</i> , 2012 , 8, 536-555	3.6	82
236	Simulations of extensional flow in microrheometric devices. <i>Microfluidics and Nanofluidics</i> , 2008 , 5, 809-828	3.5	78
235	Evaporatively-driven Marangoni instabilities of volatile liquid films spreading on thermally conductive substrates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002 , 206, 409-423	5.1	77
234	Linker-free grafting of fluorinated polymeric cross-linked network bilayers for durable reduction of ice adhesion. <i>Materials Horizons</i> , 2015 , 2, 91-99	14.4	76
233	Dynamics of bead formation, filament thinning and breakup in weakly viscoelastic jets. <i>Journal of Fluid Mechanics</i> , 2010 , 665, 46-56	3.7	76
232	Sustained drag reduction in a turbulent flow using a low-temperature Leidenfrost surface. <i>Science Advances</i> , 2016 , 2, e1600686	14.3	72
231	Dynamics of particle migration in channel flow of viscoelastic fluids. <i>Journal of Fluid Mechanics</i> , 2015 , 785, 486-505	3.7	72
230	Extensional stress growth and stress relaxation in entangled polymer solutions. <i>Journal of Rheology</i> , 2003 , 47, 269-290	4.1	72
229	Dispersity and spinnability: Why highly polydisperse polymer solutions are desirable for electrospinning. <i>Polymer</i> , 2014 , 55, 4920-4931	3.9	71
228	Superoleophobic surfaces through control of sprayed-on stochastic topography. <i>Langmuir</i> , 2012 , 28, 9834-41	4	70
227	Gap-dependent microrheometry of complex liquids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2004 , 124, 1-10	2.7	70
226	A Rheological Study of the Association and Dynamics of MUC5AC Gels. <i>Biomacromolecules</i> , 2017 , 18, 3654-3664	6.9	69

225	Elastic turbulence in shear banding wormlike micelles. <i>Physical Review Letters</i> , 2010 , 104, 178303	7.4	69
224	Extensional deformation, stress relaxation and necking failure of viscoelastic filaments. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1998 , 79, 469-501	2.7	69
223	Visible light guided manipulation of liquid wettability on photoresponsive surfaces. <i>Nature Communications</i> , 2017 , 8, 14968	17.4	68
222	The sedimentation of a sphere through an elastic fluid. Part 1. Steady motion. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1995 , 60, 225-257	2.7	68
221	Ultrathin high-resolution flexographic printing using nanoporous stamps. <i>Science Advances</i> , 2016 , 2, e1601660	16.6	67
220	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. <i>Soft Matter</i> , 2015 , 11, 3251-70	3.6	66
219	Rheo-PIV Analysis of the Yielding and Flow of Model Waxy Crude Oils. <i>Energy & Fuels</i> , 2011 , 25, 3040-3052	3.6	66
218	Investigating the stability of viscoelastic stagnation flows in T-shaped microchannels. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2009 , 163, 9-24	2.7	66
217	Size dependence of microprobe dynamics during gelation of a discotic colloidal clay. <i>Journal of Rheology</i> , 2011 , 55, 273-299	4.1	64
216	A fractional K-BKZ constitutive formulation for describing the nonlinear rheology of multiscale complex fluids. <i>Journal of Rheology</i> , 2014 , 58, 1751-1788	4.1	63
215	Extensional deformation of Newtonian liquid bridges. <i>Physics of Fluids</i> , 1996 , 8, 2568-2579	4.4	62
214	Thermal annealing treatment to achieve switchable and reversible oleophobicity on fabrics. <i>Langmuir</i> , 2009 , 25, 13625-32	4	61
213	Mapping thixo-elasto-visco-plastic behavior. <i>Rheologica Acta</i> , 2017 , 56, 195-210	2.3	60
212	Wormlike micellar solutions: II. Comparison between experimental data and scission model predictions. <i>Journal of Rheology</i> , 2010 , 54, 881-913	4.1	60
211	Scaling in pinch-off of generalized Newtonian fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2003 , 113, 1-27	2.7	60
210	Multifunctional inverted nanocone arrays for non-wetting, self-cleaning transparent surface with high mechanical robustness. <i>Small</i> , 2014 , 10, 2487-94	11	59
209	Modeling the inhomogeneous response and formation of shear bands in steady and transient flows of entangled liquids. <i>Journal of Rheology</i> , 2008 , 52, 591-623	4.1	59
208	High-resolution velocity measurement in the inner part of turbulent boundary layers over super-hydrophobic surfaces. <i>Journal of Fluid Mechanics</i> , 2016 , 801, 670-703	3.7	59

207	Thermokinematic memory and the thixotropic elasto-viscoplasticity of waxy crude oils. <i>Journal of Rheology</i> , 2017 , 61, 427-454	4.1	58
206	Stagnation point flow of wormlike micellar solutions in a microfluidic cross-slot device: effects of surfactant concentration and ionic environment. <i>Physical Review E</i> , 2012 , 85, 031502	2.4	56
205	Preferential Association of Segment Blocks in Polyurethane Nanocomposites. <i>Macromolecules</i> , 2006 , 39, 7030-7036	5.5	56
204	Elastic instabilities in planar elongational flow of monodisperse polymer solutions. <i>Scientific Reports</i> , 2016 , 6, 33029	4.9	55
203	Fluoroalkylated silicon-containing surfaces-estimation of solid-surface energy. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3544-54	9.5	55
202	Dynamics of weakly strain-hardening fluids in filament stretching devices. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2000 , 89, 1-43	2.7	55
201	Extensional flow of hyaluronic acid solutions in an optimized microfluidic cross-slot device. <i>Biomicrofluidics</i> , 2013 , 7, 044108	3.2	53
200	Robbling drops—the jetting–ripping transition in flows of polymer solutions. <i>Journal of Fluid Mechanics</i> , 2009 , 636, 5-40	3.7	53
199	Flow field visualization of entangled polybutadiene solutions under nonlinear viscoelastic flow conditions. <i>Journal of Rheology</i> , 2013 , 57, 1411-1428	4.1	52
198	Report on the VIIIth international workshop on numerical methods in viscoelastic flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1994 , 52, 407-413	2.7	52
197	Biphasic Electrode Suspensions for Li-Ion Semi-solid Flow Cells with High Energy Density, Fast Charge Transport, and Low-Dissipation Flow. <i>Advanced Energy Materials</i> , 2015 , 5, 1500535	21.8	51
196	Shear-banding in surfactant wormlike micelles: elastic instabilities and wall slip. <i>Soft Matter</i> , 2012 , 8, 2535	3.6	51
195	Tribo-Rheometry: From Gap-Dependent Rheology to Tribology. <i>Tribology Letters</i> , 2004 , 17, 327-335	2.8	51
194	Surface Tension of Seawater. <i>Journal of Physical and Chemical Reference Data</i> , 2014 , 43, 043103	4.3	50
193	Hydrate-phobic surfaces: fundamental studies in clathrate hydrate adhesion reduction. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 6013-20	3.6	50
192	Interfacial viscoelasticity, yielding and creep ringing of globular protein–surfactant mixtures. <i>Soft Matter</i> , 2011 , 7, 7623	3.6	49
191	Nonlinear microrheology of an aging, yield stress fluid using magnetic tweezers. <i>Soft Matter</i> , 2011 , 7, 9933	3.6	49
190	Carbon Nanotube–Magnetite Composites, With Applications to Developing Unique Magnetorheological Fluids. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2007 , 129, 429-437	2.1	49

189	Nonlinear viscoelastic biomaterials: meaningful characterization and engineering inspiration. <i>Integrative and Comparative Biology</i> , 2009 , 49, 40-50	2.8	48
188	Cavity flows of elastic liquids: Two-dimensional flows. <i>Physics of Fluids</i> , 1997 , 9, 3123-3140	4.4	48
187	Characteristics of Electrorheological Responses in an Emulsion System. <i>Journal of Colloid and Interface Science</i> , 1997 , 195, 101-113	9.3	48
186	Deficiencies of FENE dumbbell models in describing the rapid stretching of dilute polymer solutions. <i>Journal of Rheology</i> , 2001 , 45, 721-758	4.1	48
185	Self-similar spiral instabilities in elastic flows between a cone and a plate. <i>Journal of Fluid Mechanics</i> , 1995 , 285, 123	3.7	48
184	Sedimentation of a sphere near a plane wall: weak non-Newtonian and inertial effects. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1996 , 63, 201-233	2.7	48
183	Experimental investigation of nanofluid shear and longitudinal viscosities. <i>Applied Physics Letters</i> , 2008 , 92, 244107	3.4	47
182	Using filament stretching rheometry to predict strand formation and processability in adhesives and other non-Newtonian fluids. <i>Rheologica Acta</i> , 2000 , 39, 321-337	2.3	47
181	Microrheometry of sub-nanolitre biopolymer samples: non-Newtonian flow phenomena of carnivorous plant mucilage. <i>Soft Matter</i> , 2011 , 7, 10889	3.6	46
180	The flexure-based microgap rheometer (FMR). <i>Journal of Rheology</i> , 2006 , 50, 883-905	4.1	46
179	A comparison of the stress and birefringence growth of dilute, semi-dilute and concentrated polymer solutions in uniaxial extensional flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2002 , 108, 275-290	2.7	46
178	The unsteady motion of a sphere in a viscoelastic fluid. <i>Journal of Rheology</i> , 1994 , 38, 377-403	4.1	46
177	Probing shear-banding transitions of the VCM model for entangled wormlike micellar solutions using large amplitude oscillatory shear (LAOS) deformations. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010 , 165, 1462-1472	2.7	45
176	Rheo-PIV of a shear-banding wormlike micellar solution under large amplitude oscillatory shear. <i>Rheologica Acta</i> , 2012 , 51, 395-411	2.3	44
175	Interplay between elastic instabilities and shear-banding: three categories of Taylor-Couette flows and beyond. <i>Soft Matter</i> , 2012 , 8, 10072	3.6	43
174	Quantitative prediction of the viscoelastic instability in cone-and-plate flow of a Boger fluid using a multi-mode Giesekus model. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1994 , 54, 351-377	2.7	43
173	Microstructural Rearrangements and their Rheological Implications in a Model Thixotropic Elastoviscoplastic Fluid. <i>Physical Review Letters</i> , 2017 , 118, 048003	7.4	42
172	On the measured current in electrospinning. <i>Journal of Applied Physics</i> , 2010 , 107, 044306	2.5	42

171	Simultaneous Rheoelectric Measurements of Strongly Conductive Complex Fluids. <i>Physical Review Applied</i> , 2016 , 6,	4.3	42
170	Examination of wettability and surface energy in fluorodecyl POSS/polymer blends. <i>Soft Matter</i> , 2011 , 7, 10122	3.6	41
169	Adaptive energy-absorbing materials using field-responsive fluid-impregnated cellular solids. <i>Smart Materials and Structures</i> , 2007 , 16, 106-113	3.4	41
168	Extensional flow of wormlike micellar solutions. <i>Chemical Engineering Science</i> , 2009 , 64, 4588-4596	4.4	40
167	Cervical mucus properties stratify risk for preterm birth. <i>PLoS ONE</i> , 2013 , 8, e69528	3.7	40
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