

John R Lister

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74
papers

2,753
citations

27
h-index

51
g-index

74
ext. papers

3,069
ext. citations

4.6
avg, IF

5.24
L-index

#	Paper	IF	Citations
74	Particle-driven gravity currents. <i>Journal of Fluid Mechanics</i> , 1993 , 250, 339-369	3.7	256
73	Buoyancy-driven fluid fracture: the effects of material toughness and of low-viscosity precursors. <i>Journal of Fluid Mechanics</i> , 1990 , 210, 263-280	3.7	179
72	Similarity solutions for van der Waals rupture of a thin film on a solid substrate. <i>Physics of Fluids</i> , 1999 , 11, 2454-2462	4.4	127
71	Axisymmetric particle-driven gravity currents. <i>Journal of Fluid Mechanics</i> , 1995 , 294, 93-121	3.7	119
70	Plethora of transitions during breakup of liquid filaments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 4582-7	11.5	117
69	Analytical model for solidification of the Earth's core. <i>Nature</i> , 1992 , 356, 329-331	50.4	109
68	Buoyancy-driven fluid fracture: similarity solutions for the horizontal and vertical propagation of fluid-filled cracks. <i>Journal of Fluid Mechanics</i> , 1990 , 217, 213-239	3.7	104
67	Viscous flows down an inclined plane from point and line sources. <i>Journal of Fluid Mechanics</i> , 1992 , 242, 631-653	3.7	102
66	Capillary pinch-off in inviscid fluids. <i>Physics of Fluids</i> , 2003 , 15, 568-578	4.4	88
65	The effect of surfactant on the stability of a liquid thread. <i>Journal of Fluid Mechanics</i> , 2002 , 459, 289-306	3.7	77
64	Convective shutdown in a porous medium at high Rayleigh number. <i>Journal of Fluid Mechanics</i> , 2013 , 719, 551-586	3.7	74
63	Similarity Solutions for Capillary Pinch-Off in Fluids of Differing Viscosity. <i>Physical Review Letters</i> , 1999 , 83, 1151-1154	7.4	74
62	Viscous control of peeling an elastic sheet by bending and pulling. <i>Physical Review Letters</i> , 2013 , 111, 154501	7.4	72
61	Flow localization in fissure eruptions. <i>Bulletin of Volcanology</i> , 1999 , 60, 432-440	2.4	63
60	Ultimate regime of high Rayleigh number convection in a porous medium. <i>Physical Review Letters</i> , 2012 , 108, 224503	7.4	60
59	The propagation of two-dimensional and axisymmetric viscous gravity currents at a fluid interface. <i>Journal of Fluid Mechanics</i> , 1989 , 203, 215-249	3.7	59
58	Liquid ropes: a geometrical model for thin viscous jet instabilities. <i>Physical Review Letters</i> , 2015 , 114, 174501	7.4	53

57	Stability of a dragged viscous thread: Onset of stitching in a fluid-mechanical sewing machine. <i>Physics of Fluids</i> , 2006 , 18, 124105	4.4	50
56	Self-similar solutions for viscous capillary pinch-off. <i>Journal of Fluid Mechanics</i> , 2003 , 497, 381-403	3.7	50
55	High Rayleigh number convection in a three-dimensional porous medium. <i>Journal of Fluid Mechanics</i> , 2014 , 748, 879-895	3.7	47
54	Convection and particle entrainment driven by differential sedimentation. <i>Journal of Fluid Mechanics</i> , 1991 , 226, 349-369	3.7	46
53	The effect of geometry on the gravitational instability of a buoyant region of viscous fluid. <i>Journal of Fluid Mechanics</i> , 1989 , 202, 577-594	3.7	45
52	Calculation of dike trajectories from volcanic centers. <i>Journal of Geophysical Research</i> , 2002 , 107, ETG 10-1-ETG 10-10		40
51	Particle-driven gravity currents down planar slopes. <i>Journal of Fluid Mechanics</i> , 1999 , 390, 75-91	3.7	37
50	Nondecaying Hydrodynamic Interactions along Narrow Channels. <i>Physical Review Letters</i> , 2015 , 115, 038301	7.4	30
49	The nonlinear dynamics of pendent drops on a thin film coating the underside of a ceiling. <i>Journal of Fluid Mechanics</i> , 2010 , 647, 239-264	3.7	29
48	Viscous fingering in a radial elastic-walled Hele-Shaw cell. <i>Journal of Fluid Mechanics</i> , 2018 , 849, 163-191	3.7	27
47	Solidification of pressure-driven flow in a finite rigid channel with application to volcanic eruptions. <i>Journal of Fluid Mechanics</i> , 1996 , 323, 267-283	3.7	27
46	Leakage from gravity currents in a porous medium. Part 1. A localized sink. <i>Journal of Fluid Mechanics</i> , 2011 , 666, 391-413	3.7	26
45	The effects of temperature-dependent viscosity on flow in a cooled channel with application to basaltic fissure eruptions. <i>Journal of Fluid Mechanics</i> , 1995 , 305, 239-261	3.7	26
44	The solidification of buoyancy-driven flow in a flexible-walled channel. Part 1. Constant-volume release. <i>Journal of Fluid Mechanics</i> , 1994 , 272, 21-44	3.7	26
43	Displacement flows under elastic membranes. Part 2. Analysis of interfacial effects. <i>Journal of Fluid Mechanics</i> , 2015 , 784, 512-547	3.7	25
42	Displacement flows under elastic membranes. Part 1. Experiments and direct numerical simulations. <i>Journal of Fluid Mechanics</i> , 2015 , 784, 487-511	3.7	25
41	Self-similar recoil of inviscid drops. <i>Physics of Fluids</i> , 2004 , 16, 1379-1394	4.4	25
40	The spread of subducted lithospheric material along the mid-mantle boundary. <i>Earth and Planetary Science Letters</i> , 1987 , 85, 241-247	5.3	25

- 39 Scaling laws and dynamics of bubble coalescence. *Physical Review Fluids*, **2017**, 2, 2.8 23
- 38 Steady axisymmetric creeping plumes above a planar boundary. Part 2. A distributed source. *Journal of Fluid Mechanics*, **2006**, 567, 379 3.7 21
- 37 Stability of columnar convection in a porous medium. *Journal of Fluid Mechanics*, **2013**, 737, 205-231 3.7 20
- 36 A fluid-mechanical model of elastocapillary coalescence. *Journal of Fluid Mechanics*, **2014**, 745, 621-646 3.7 20
- 35 Leakage from gravity currents in a porous medium. Part 2. A line sink. *Journal of Fluid Mechanics*, **2011**, 666, 414-427 3.7 20
- 34 The solidification of buoyancy-driven flow in a flexible-walled channel. Part 2. Continual release. *Journal of Fluid Mechanics*, **1994**, 272, 45-66 3.7 20
- 33 On the hydrodynamic interaction between a particle and a permeable surface. *Physics of Fluids*, **2013**, 25, 073103 4.4 19
- 32 The asymptotic structure of a slender dragged viscous thread. *Journal of Fluid Mechanics*, **2011**, 674, 489-521 3.7 19
- 31 Long-wavelength instability of a line plume. *Journal of Fluid Mechanics*, **1987**, 175, 413 3.7 19
- 30 Symmetry and self-similarity in rupture and pinchoff: a geometric bifurcation. *European Journal of Applied Mathematics*, **2001**, 12, 209-232 1 18
- 29 Early-time free-surface flow driven by a deforming boundary. *Journal of Fluid Mechanics*, **2015**, 767, 811-841 3.7 17
- 28 Thin-sheet flow between coalescing bubbles. *Journal of Fluid Mechanics*, **2015**, 773, 377-407 3.7 16
- 27 Shape and stability of axisymmetric levitated viscous drops. *Journal of Fluid Mechanics*, **2008**, 617, 167-185 3.7 16
- 26 Rayleigh–Taylor instability of an inclined buoyant viscous cylinder. *Journal of Fluid Mechanics*, **2011**, 671, 313-338 3.7 15
- 25 Steady axisymmetric creeping plumes above a planar boundary. Part 1. A point source. *Journal of Fluid Mechanics*, **2006**, 567, 361 3.7 15
- 24 Further results for convection driven by the differential sedimentation of particles. *Journal of Fluid Mechanics*, **1992**, 243, 227 3.7 14
- 23 The self-similar rise of a buoyant thermal in very viscous flow. *Journal of Fluid Mechanics*, **2008**, 606, 295-324 3.7 13
- 22 Thermal winds forced by inhomogeneous boundary conditions in rotating, stratified, hydromagnetic fluid. *Journal of Fluid Mechanics*, **2004**, 505, 163-178 3.7 11

21	Evaporation effects in elastocapillary aggregation. <i>Journal of Fluid Mechanics</i> , 2016 , 792, 168-185	3.7	11
20	High Rayleigh number convection in a porous medium containing a thin low-permeability layer. <i>Journal of Fluid Mechanics</i> , 2014 , 756, 844-869	3.7	10
19	Release of a viscous power-law fluid over an inviscid ocean. <i>Journal of Fluid Mechanics</i> , 2012 , 700, 63-76	3.7	9
18	Compressible particle-driven gravity currents. <i>Journal of Fluid Mechanics</i> , 2001 , 445, 305-325	3.7	9
17	Stability of three-dimensional columnar convection in a porous medium. <i>Journal of Fluid Mechanics</i> , 2017 , 829, 89-111	3.7	7
16	Motion of a non-axisymmetric particle in viscous shear flow. <i>Journal of Fluid Mechanics</i> , 2019 , 872, 532-559	3.7	7
15	On penetrative convection at low Péclet number. <i>Journal of Fluid Mechanics</i> , 1995 , 292, 229-248	3.7	7
14	Rise and deflection of mantle plume tails. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	6
13	Viscous flow under an elastic sheet. <i>Journal of Fluid Mechanics</i> , 2020 , 905,	3.7	5
12	The relaxation time for viscous and porous gravity currents following a change in flux. <i>Journal of Fluid Mechanics</i> , 2017 , 821, 330-342	3.7	4
11	Shock formation in two-layer equal-density viscous gravity currents. <i>Journal of Fluid Mechanics</i> , 2019 , 863, 730-756	3.7	4
10	Stability of straining flow with surface cooling and temperature-dependent viscosity. <i>Journal of Fluid Mechanics</i> , 1998 , 365, 369-381	3.7	4
9	Viscous control of shallow elastic fracture: peeling without precursors. <i>Journal of Fluid Mechanics</i> , 2019 , 868, 119-140	3.7	3
8	The initial transient and approach to self-similarity of a very viscous buoyant thermal. <i>Journal of Fluid Mechanics</i> , 2014 , 744, 352-375	3.7	3
7	Slender-body theory for steady sheared plumes in very viscous fluid. <i>Journal of Fluid Mechanics</i> , 2008 , 612, 21-44	3.7	3
6	Capillary retraction of the edge of a stretched viscous sheet. <i>Journal of Fluid Mechanics</i> , 2018 , 844,	3.7	2
5	Creeping axisymmetric plumes with strongly temperature-dependent viscosity. <i>Journal of Fluid Mechanics</i> , 2014 , 745,	3.7	1
4	Hydrodynamic diffusion of sedimenting point particles in a vertical shear flow. <i>Journal of Fluid Mechanics</i> , 2013 , 730, 699-732	3.7	1

- 3 Buoyancy-driven plumes in a layered porous medium. *Journal of Fluid Mechanics*, **2020**, 883, 3-7 1
- 2 Viscous-fingering mechanisms under a peeling elastic sheet. *Journal of Fluid Mechanics*, **2019**, 864, 1177-1207 1
- 1 Free convection beneath a heated horizontal plate in a rapidly rotating system. *Journal of Fluid Mechanics*, **2007**, 586, 491-506 3-7