

# John R Lister

## List of Publications by Year in descending order

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74  
papers

3,361  
citations

159585

30  
h-index

144013

57  
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74  
all docs

74  
docs citations

74  
times ranked

2178  
citing authors

#	ARTICLE	IF	CITATIONS
1	Buoyancy-driven plumes in a layered porous medium. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	3.4	6
2	Viscous flow under an elastic sheet. <i>Journal of Fluid Mechanics</i> , 2020, 905, .	3.4	16
3	Shock formation in two-layer equal-density viscous gravity currents. <i>Journal of Fluid Mechanics</i> , 2019, 863, 730-756.	3.4	9
4	Motion of a non-axisymmetric particle in viscous shear flow. <i>Journal of Fluid Mechanics</i> , 2019, 872, 532-559.	3.4	13
5	Viscous control of shallow elastic fracture: peeling without precursors. <i>Journal of Fluid Mechanics</i> , 2019, 868, 119-140.	3.4	11
6	Viscous-fingering mechanisms under a peeling elastic sheet. <i>Journal of Fluid Mechanics</i> , 2019, 864, 1177-1207.	3.4	3
7	Capillary retraction of the edge of a stretched viscous sheet. <i>Journal of Fluid Mechanics</i> , 2018, 844, .	3.4	3
8	Viscous fingering in a radial elastic-walled Hele-Shaw cell. <i>Journal of Fluid Mechanics</i> , 2018, 849, 163-191.	3.4	53
9	The relaxation time for viscous and porous gravity currents following a change in flux. <i>Journal of Fluid Mechanics</i> , 2017, 821, 330-342.	3.4	6
10	Stability of three-dimensional columnar convection in a porous medium. <i>Journal of Fluid Mechanics</i> , 2017, 829, 89-111.	3.4	10
11	Scaling laws and dynamics of bubble coalescence. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	37
12	Evaporation effects in elastocapillary aggregation. <i>Journal of Fluid Mechanics</i> , 2016, 792, 168-185.	3.4	16
13	Thin-sheet flow between coalescing bubbles. <i>Journal of Fluid Mechanics</i> , 2015, 773, .	3.4	23
14	Displacement flows under elastic membranes. Part 2. Analysis of interfacial effects. <i>Journal of Fluid Mechanics</i> , 2015, 784, 512-547.	3.4	35
15	Displacement flows under elastic membranes. Part 1. Experiments and direct numerical simulations. <i>Journal of Fluid Mechanics</i> , 2015, 784, 487-511.	3.4	34
16	Early-time free-surface flow driven by a deforming boundary. <i>Journal of Fluid Mechanics</i> , 2015, 767, 811-841.	3.4	19
17	Nondecaying Hydrodynamic Interactions along Narrow Channels. <i>Physical Review Letters</i> , 2015, 115, 038301.	7.8	47
18	Liquid Ropes: A Geometrical Model for Thin Viscous Jet Instabilities. <i>Physical Review Letters</i> , 2015, 114, 174501.	7.8	71

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19	Plethora of transitions during breakup of liquid filaments. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4582-4587.	7.1	161
20	High Rayleigh number convection in a porous medium containing a thin low-permeability layer. Journal of Fluid Mechanics, 2014, 756, 844-869.	3.4	20
21	A fluid-mechanical model of elastocapillary coalescence. Journal of Fluid Mechanics, 2014, 745, 621-646.	3.4	24
22	Creeping axisymmetric plumes with strongly temperature-dependent viscosity. Journal of Fluid Mechanics, 2014, 745, .	3.4	2
23	High Rayleigh number convection in a three-dimensional porous medium. Journal of Fluid Mechanics, 2014, 748, 879-895.	3.4	61
24	The initial transient and approach to self-similarity of a very viscous buoyant thermal. Journal of Fluid Mechanics, 2014, 744, 352-375.	3.4	3
25	Viscous Control of Peeling an Elastic Sheet by Bending and Pulling. Physical Review Letters, 2013, 111, 154501.	7.8	93
26	Stability of columnar convection in a porous medium. Journal of Fluid Mechanics, 2013, 737, 205-231.	3.4	27
27	Hydrodynamic diffusion of sedimenting point particles in a vertical shear flow. Journal of Fluid Mechanics, 2013, 730, 699-732.	3.4	1
28	Convective shutdown in a porous medium at high Rayleigh number. Journal of Fluid Mechanics, 2013, 719, 551-586.	3.4	98
29	On the hydrodynamic interaction between a particle and a permeable surface. Physics of Fluids, 2013, 25, 073103.	4.0	26
30	Release of a viscous power-law fluid over an inviscid ocean. Journal of Fluid Mechanics, 2012, 700, 63-76.	3.4	11
31	Ultimate Regime of High Rayleigh Number Convection in a Porous Medium. Physical Review Letters, 2012, 108, 224503.	7.8	81
32	Leakage from gravity currents in a porous medium. Part 1. A localized sink. Journal of Fluid Mechanics, 2011, 666, 391-413.	3.4	29
33	Leakage from gravity currents in a porous medium. Part 2. A line sink. Journal of Fluid Mechanics, 2011, 666, 414-427.	3.4	22
34	Rayleigh-Taylor instability of an inclined buoyant viscous cylinder. Journal of Fluid Mechanics, 2011, 671, 313-338.	3.4	15
35	The asymptotic structure of a slender dragged viscous thread. Journal of Fluid Mechanics, 2011, 674, 489-521.	3.4	20
36	The nonlinear dynamics of pendent drops on a thin film coating the underside of a ceiling. Journal of Fluid Mechanics, 2010, 647, 239-264.	3.4	36

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37	Rise and deflection of mantle plume tails. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	8
38	The self-similar rise of a buoyant thermal in very viscous flow. <i>Journal of Fluid Mechanics</i> , 2008, 606, 295-324.	3.4	13
39	Slender-body theory for steady sheared plumes in very viscous fluid. <i>Journal of Fluid Mechanics</i> , 2008, 612, 21-44.	3.4	3
40	Shape and stability of axisymmetric levitated viscous drops. <i>Journal of Fluid Mechanics</i> , 2008, 617, 167-185.	3.4	18
41	Free convection beneath a heated horizontal plate in a rapidly rotating system. <i>Journal of Fluid Mechanics</i> , 2007, 586, 491-506.	3.4	0
42	Steady axisymmetric creeping plumes above a planar boundary. Part 1. A point source. <i>Journal of Fluid Mechanics</i> , 2006, 567, 361.	3.4	17
43	Steady axisymmetric creeping plumes above a planar boundary. Part 2. A distributed source. <i>Journal of Fluid Mechanics</i> , 2006, 567, 379.	3.4	22
44	Stability of a dragged viscous thread: Onset of "stitching" in a fluid-mechanical "sewing machine". <i>Physics of Fluids</i> , 2006, 18, 124105.	4.0	55
45	Self-similar recoil of inviscid drops. <i>Physics of Fluids</i> , 2004, 16, 1379-1394.	4.0	27
46	Thermal winds forced by inhomogeneous boundary conditions in rotating, stratified, hydromagnetic fluid. <i>Journal of Fluid Mechanics</i> , 2004, 505, 163-178.	3.4	11
47	Self-similar solutions for viscous capillary pinch-off. <i>Journal of Fluid Mechanics</i> , 2003, 497, 381-403.	3.4	56
48	Capillary pinch-off in inviscid fluids. <i>Physics of Fluids</i> , 2003, 15, 568-578.	4.0	98
49	Calculation of dike trajectories from volcanic centers. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 10-1-ETG 10-10.	3.3	46
50	The effect of surfactant on the stability of a liquid thread. <i>Journal of Fluid Mechanics</i> , 2002, 459, 289-306.	3.4	87
51	Compressible particle-driven gravity currents. <i>Journal of Fluid Mechanics</i> , 2001, 445, 305-325.	3.4	9
52	Symmetry and self-similarity in rupture and pinchoff: a geometric bifurcation. <i>European Journal of Applied Mathematics</i> , 2001, 12, 209-232.	2.9	19
53	Similarity Solutions for Capillary Pinch-Off in Fluids of Differing Viscosity. <i>Physical Review Letters</i> , 1999, 83, 1151-1154.	7.8	82
54	Flow localization in fissure eruptions. <i>Bulletin of Volcanology</i> , 1999, 60, 432-440.	3.0	78

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55	Particle-driven gravity currents down planar slopes. <i>Journal of Fluid Mechanics</i> , 1999, 390, 75-91.	3.4	41
56	Similarity solutions for van der Waals rupture of a thin film on a solid substrate. <i>Physics of Fluids</i> , 1999, 11, 2454-2462.	4.0	152
57	Stability of straining flow with surface cooling and temperature-dependent viscosity. <i>Journal of Fluid Mechanics</i> , 1998, 365, 369-381.	3.4	6
58	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.	3.4	32
59	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.	3.4	31
60	Axisymmetric particle-driven gravity currents. <i>Journal of Fluid Mechanics</i> , 1995, 294, 93-121.	3.4	142
61	On penetrative convection at low Péclet number. <i>Journal of Fluid Mechanics</i> , 1995, 292, 229-248.	3.4	11
62	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.	3.4	30
63	The solidification of buoyancy-driven flow in a flexible-walled channel. Part 2. Continual release. <i>Journal of Fluid Mechanics</i> , 1994, 272, 45-66.	3.4	22
64	Particle-driven gravity currents. <i>Journal of Fluid Mechanics</i> , 1993, 250, 339-369.	3.4	300
65	Further results for convection driven by the differential sedimentation of particles. <i>Journal of Fluid Mechanics</i> , 1992, 243, 227.	3.4	17
66	Viscous flows down an inclined plane from point and line sources. <i>Journal of Fluid Mechanics</i> , 1992, 242, 631-653.	3.4	130
67	Analytical model for solidification of the Earth's core. <i>Nature</i> , 1992, 356, 329-331.	27.8	125
68	Convection and particle entrainment driven by differential sedimentation. <i>Journal of Fluid Mechanics</i> , 1991, 226, 349-369.	3.4	48
69	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.	3.4	117
70	Buoyancy-driven fluid fracture: the effects of material toughness and of low-viscosity precursors. <i>Journal of Fluid Mechanics</i> , 1990, 210, 263-280.	3.4	204
71	The propagation of two-dimensional and axisymmetric viscous gravity currents at a fluid interface. <i>Journal of Fluid Mechanics</i> , 1989, 203, 215-249.	3.4	66
72	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.	3.4	48

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73	Long-wavelength instability of a line plume. <i>Journal of Fluid Mechanics</i> , 1987, 175, 413.	3.4	22
74	The spread of subducted lithospheric material along the mid-mantle boundary. <i>Earth and Planetary Science Letters</i> , 1987, 85, 241-247.	4.4	26