John R Lister

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Buoyancy-driven plumes in a layered porous medium. *Journal of Fluid Mechanics*, **2020**, 883,	3.7	1
73	Viscous flow under an elastic sheet. *Journal of Fluid Mechanics*, **2020**, 905,	3.7	5
72	Shock formation in two-layer equal-density viscous gravity currents. *Journal of Fluid Mechanics*, **2019**, 863, 730-756	3.7	4
71	Motion of a non-axisymmetric particle in viscous shear flow. *Journal of Fluid Mechanics*, **2019**, 872, 532-559	3.7	7
70	Viscous control of shallow elastic fracture: peeling without precursors. *Journal of Fluid Mechanics*, **2019**, 868, 119-140	3.7	3
69	Viscous-fingering mechanisms under a peeling elastic sheet. *Journal of Fluid Mechanics*, **2019**, 864, 1177-1207	3.7	1
68	Capillary retraction of the edge of a stretched viscous sheet. *Journal of Fluid Mechanics*, **2018**, 844,	3.7	2
67	Viscous fingering in a radial elastic-walled Hele-Shaw cell. *Journal of Fluid Mechanics*, **2018**, 849, 163-191	3.7	27
66	The relaxation time for viscous and porous gravity currents following a change in flux. *Journal of Fluid Mechanics*, **2017**, 821, 330-342	3.7	4
65	Stability of three-dimensional columnar convection in a porous medium. *Journal of Fluid Mechanics*, **2017**, 829, 89-111	3.7	7
64	Scaling laws and dynamics of bubble coalescence. *Physical Review Fluids*, **2017**, 2,	2.8	23
63	Evaporation effects in elastocapillary aggregation. *Journal of Fluid Mechanics*, **2016**, 792, 168-185	3.7	11
62	Liquid ropes: a geometrical model for thin viscous jet instabilities. *Physical Review Letters*, **2015**, 114, 174501	7.4	53
61	Plethora of transitions during breakup of liquid filaments. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 4582-7	11.5	117
60	Thin-sheet flow between coalescing bubbles. *Journal of Fluid Mechanics*, **2015**, 773,	3.7	16
59	Displacement flows under elastic membranes. Part 2. Analysis of interfacial effects. *Journal of Fluid Mechanics*, **2015**, 784, 512-547	3.7	25
58	Displacement flows under elastic membranes. Part 1. Experiments and direct numerical simulations. *Journal of Fluid Mechanics*, **2015**, 784, 487-511	3.7	25

57	Early-time free-surface flow driven by a deforming boundary. *Journal of Fluid Mechanics*, **2015**, 767, 811-841	3.7	17
56	Nondecaying Hydrodynamic Interactions along Narrow Channels. *Physical Review Letters*, **2015**, 115, 038301	7.4	30
55	Creeping axisymmetric plumes with strongly temperature-dependent viscosity. *Journal of Fluid Mechanics*, **2014**, 745,	3.7	1
54	High Rayleigh number convection in a three-dimensional porous medium. *Journal of Fluid Mechanics* , **2014**, 748, 879-895	3.7	47
53	The initial transient and approach to self-similarity of a very viscous buoyant thermal. *Journal of Fluid Mechanics*, **2014**, 744, 352-375	3.7	3
52	High Rayleigh number convection in a porous medium containing a thin low-permeability layer. *Journal of Fluid Mechanics*, **2014**, 756, 844-869	3.7	10
51	A fluid-mechanical model of elastocapillary coalescence. *Journal of Fluid Mechanics*, **2014**, 745, 621-646	3.7	20
50	Viscous control of peeling an elastic sheet by bending and pulling. *Physical Review Letters*, **2013**, 111, 154501	7.4	72
49	Stability of columnar convection in a porous medium. *Journal of Fluid Mechanics*, **2013**, 737, 205-231	3.7	20
48	Hydrodynamic diffusion of sedimenting point particles in a vertical shear flow. *Journal of Fluid Mechanics*, **2013**, 730, 699-732	3.7	1
47	Convective shutdown in a porous medium at high Rayleigh number. *Journal of Fluid Mechanics*, **2013**, 719, 551-586	3.7	74
46	On the hydrodynamic interaction between a particle and a permeable surface. *Physics of Fluids*, **2013**, 25, 073103	4.4	19
45	Release of a viscous power-law fluid over an inviscid ocean. *Journal of Fluid Mechanics*, **2012**, 700, 63-76	3.7	9
44	Ultimate regime of high Rayleigh number convection in a porous medium. *Physical Review Letters*, **2012**, 108, 224503	7.4	60
43	Leakage from gravity currents in a porous medium. Part 1. A localized sink. *Journal of Fluid Mechanics*, **2011**, 666, 391-413	3.7	26
42	Leakage from gravity currents in a porous medium. Part 2. A line sink. *Journal of Fluid Mechanics*, **2011**, 666, 414-427	3.7	20
41	Rayleigh–Taylor instability of an inclined buoyant viscous cylinder. *Journal of Fluid Mechanics*, **2011**, 671, 313-338	3.7	15
40	The asymptotic structure of a slender dragged viscous thread. *Journal of Fluid Mechanics*, **2011**, 674, 489-521	3.7	19

39	The nonlinear dynamics of pendent drops on a thin film coating the underside of a ceiling. *Journal of Fluid Mechanics*, **2010**, 647, 239-264	3.7	29
38	Rise and deflection of mantle plume tails. *Geochemistry, Geophysics, Geosystems*, **2008**, 9, n/a-n/a	3.6	6
37	The self-similar rise of a buoyant thermal in very viscous flow. *Journal of Fluid Mechanics*, **2008**, 606, 295-324	3.7	13
36	Slender-body theory for steady sheared plumes in very viscous fluid. *Journal of Fluid Mechanics*, **2008**, 612, 21-44	3.7	3
35	Shape and stability of axisymmetric levitated viscous drops. *Journal of Fluid Mechanics*, **2008**, 617, 167-185	3.7	16
34	Free convection beneath a heated horizontal plate in a rapidly rotating system. *Journal of Fluid Mechanics*, **2007**, 586, 491-506	3.7	
33	Stability of a dragged viscous thread: Onset of "stitching" in a fluid-mechanical "sewing machine". *Physics of Fluids*, **2006**, 18, 124105	4.4	50
32	Steady axisymmetric creeping plumes above a planar boundary. Part 1. A point source. *Journal of Fluid Mechanics*, **2006**, 567, 361	3.7	15
31	Steady axisymmetric creeping plumes above a planar boundary. Part 2. A distributed source. *Journal of Fluid Mechanics*, **2006**, 567, 379	3.7	21
30	Self-similar recoil of inviscid drops. *Physics of Fluids*, **2004**, 16, 1379-1394	4.4	25
29	Thermal winds forced by inhomogeneous boundary conditions in rotating, stratified, hydromagnetic fluid. *Journal of Fluid Mechanics*, **2004**, 505, 163-178	3.7	11
28	Self-similar solutions for viscous capillary pinch-off. *Journal of Fluid Mechanics*, **2003**, 497, 381-403	3.7	50
27	Capillary pinch-off in inviscid fluids. *Physics of Fluids*, **2003**, 15, 568-578	4.4	88
26	Calculation of dike trajectories from volcanic centers. *Journal of Geophysical Research*, **2002**, 107, ETG 10-1-ETG 10-10		40
25	The effect of surfactant on the stability of a liquid thread. *Journal of Fluid Mechanics*, **2002**, 459, 289-306	3.7	77
24	Symmetry and self-similarity in rupture and pinchoff: a geometric bifurcation. *European Journal of Applied Mathematics*, **2001**, 12, 209-232	1	18
23	Compressible particle-driven gravity currents. *Journal of Fluid Mechanics*, **2001**, 445, 305-325	3.7	9
22	Similarity Solutions for Capillary Pinch-Off in Fluids of Differing Viscosity. *Physical Review Letters*, **1999**, 83, 1151-1154	7.4	74

21	Flow localization in fissure eruptions. *Bulletin of Volcanology*, **1999**, 60, 432-440	2.4	63
20	Particle-driven gravity currents down planar slopes. *Journal of Fluid Mechanics*, **1999**, 390, 75-91	3.7	37
19	Similarity solutions for van der Waals rupture of a thin film on a solid substrate. *Physics of Fluids*, **1999**, 11, 2454-2462	4.4	127
18	Stability of straining flow with surface cooling and temperature-dependent viscosity. *Journal of Fluid Mechanics*, **1998**, 365, 369-381	3.7	4
17	Solidification of pressure-driven flow in a finite rigid channel with application to volcanic eruptions. *Journal of Fluid Mechanics*, **1996**, 323, 267-283	3.7	27
16	The effects of temperature-dependent viscosity on flow in a cooled channel with application to basaltic fissure eruptions. *Journal of Fluid Mechanics*, **1995**, 305, 239-261	3.7	26
15	Axisymmetric particle-driven gravity currents. *Journal of Fluid Mechanics*, **1995**, 294, 93-121	3.7	119
14	On penetrative convection at low Péclet number. *Journal of Fluid Mechanics*, **1995**, 292, 229-248	3.7	7
13	The solidification of buoyancy-driven flow in a flexible-walled channel. Part 1. Constant-volume release. *Journal of Fluid Mechanics*, **1994**, 272, 21-44	3.7	26
12	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
11	Particle-driven gravity currents. *Journal of Fluid Mechanics*, **1993**, 250, 339-369	3.7	256
10	Further results for convection driven by the differential sedimentation of particles. *Journal of Fluid Mechanics*, **1992**, 243, 227	3.7	14
9	Viscous flows down an inclined plane from point and line sources. *Journal of Fluid Mechanics*, **1992**, 242, 631-653	3.7	102
8	Analytical model for solidification of the Earth's core. *Nature*, **1992**, 356, 329-331	50.4	109
7	Convection and particle entrainment driven by differential sedimentation. *Journal of Fluid Mechanics*, **1991**, 226, 349-369	3.7	46
6	Buoyancy-driven fluid fracture: similarity solutions for the horizontal and vertical propagation of fluid-filled cracks. *Journal of Fluid Mechanics*, **1990**, 217, 213-239	3.7	104
5	Buoyancy-driven fluid fracture: the effects of material toughness and of low-viscosity precursors. *Journal of Fluid Mechanics*, **1990**, 210, 263-280	3.7	179
4	The propagation of two-dimensional and axisymmetric viscous gravity currents at a fluid interface. *Journal of Fluid Mechanics*, **1989**, 203, 215-249	3.7	59

3	The effect of geometry on the gravitational instability of a buoyant region of viscous fluid. *Journal of Fluid Mechanics*, **1989**, 202, 577-594	3.7	45
2	Long-wavelength instability of a line plume. *Journal of Fluid Mechanics*, **1987**, 175, 413	3.7	19
1	The spread of subducted lithospheric material along the mid-mantle boundary. *Earth and Planetary Science Letters*, **1987**, 85, 241-247	5.3	25