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 g-index
74 all docs	74 docs citations	74 times ranked	2178 citing authors

#	Article	IF	Citations
1	Particle-driven gravity currents. Journal of Fluid Mechanics, 1993, 250, 339-369.	3.4	300
2	Buoyancy-driven fluid fracture: the effects of material toughness and of low-viscosity precursors. Journal of Fluid Mechanics, 1990, 210, 263-280.	3.4	204
3	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
4	Similarity solutions for van der Waals rupture of a thin film on a solid substrate. Physics of Fluids, 1999, 11, 2454-2462.	4.0	152
5	Axisymmetric particle-driven gravity currents. Journal of Fluid Mechanics, 1995, 294, 93-121.	3.4	142
6	Viscous flows down an inclined plane from point and line sources. Journal of Fluid Mechanics, 1992, 242, 631-653.	3.4	130
7	Analytical model for solidification of the Earth's core. Nature, 1992, 356, 329-331.	27.8	125
8	Buoyancy-driven fluid fracture: similarity solutions for the horizontal and vertical propagation of fluid-filled cracks. Journal of Fluid Mechanics, 1990, 217, 213-239.	3.4	117
9	Capillary pinch-off in inviscid fluids. Physics of Fluids, 2003, 15, 568-578.	4.0	98
10	Convective shutdown in a porous medium at high Rayleigh number. Journal of Fluid Mechanics, 2013, 719, 551-586.	3.4	98
11	Viscous Control of Peeling an Elastic Sheet by Bending and Pulling. Physical Review Letters, 2013, 111, 154501.	7.8	93
12	The effect of surfactant on the stability of a liquid thread. Journal of Fluid Mechanics, 2002, 459, 289-306.	3.4	87
13	Similarity Solutions for Capillary Pinch-Off in Fluids of Differing Viscosity. Physical Review Letters, 1999, 83, 1151-1154.	7.8	82
14	Ultimate Regime of High Rayleigh Number Convection in a Porous Medium. Physical Review Letters, 2012, 108, 224503.	7.8	81
15	Flow localization in fissure eruptions. Bulletin of Volcanology, 1999, 60, 432-440.	3.0	78
16	Liquid Ropes: A Geometrical Model for Thin Viscous Jet Instabilities. Physical Review Letters, 2015, 114, 174501.	7.8	71
17	The propagation of two-dimensional and axisymmetric viscous gravity currents at a fluid interface. Journal of Fluid Mechanics, 1989, 203, 215-249.	3.4	66
18	High Rayleigh number convection in a three-dimensional porous medium. Journal of Fluid Mechanics, 2014, 748, 879-895.	3.4	61

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19	Self-similar solutions for viscous capillary pinch-off. Journal of Fluid Mechanics, 2003, 497, 381-403.	3.4	56
20	Stability of a dragged viscous thread: Onset of â€œstitchingâ€• in a fluid-mechanical â€œsewing machineâ€•. Physics of Fluids, 2006, 18, 124105.	4.0	55
21	Viscous fingering in a radial elastic-walled Hele-Shaw cell. Journal of Fluid Mechanics, 2018, 849, 163-191.	3.4	53
22	The effect of geometry on the gravitational instability of a buoyant region of viscous fluid. Journal of Fluid Mechanics, 1989, 202, 577-594.	3.4	48
23	Convection and particle entrainment driven by differential sedimentation. Journal of Fluid Mechanics, 1991, 226, 349-369.	3.4	48
24	Nondecaying Hydrodynamic Interactions along Narrow Channels. Physical Review Letters, 2015, 115, 038301.	7.8	47
25	Calculation of dike trajectories from volcanic centers. Journal of Geophysical Research, 2002, 107, ETG 10-1-ETG 10-10.	3.3	46
26	Particle-driven gravity currents down planar slopes. Journal of Fluid Mechanics, 1999, 390, 75-91.	3.4	41
27	Scaling laws and dynamics of bubble coalescence. Physical Review Fluids, 2017, 2, .	2.5	37
28	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
29	Displacement flows under elastic membranes. Part 2. Analysis of interfacial effects. Journal of Fluid Mechanics, 2015, 784, 512-547.	3.4	35
30	Displacement flows under elastic membranes. Part 1. Experiments and direct numericalÂsimulations. Journal of Fluid Mechanics, 2015, 784, 487-511.	3.4	34
31	Solidification of pressure-driven flow in a finite rigid channel with application to volcanic eruptions. Journal of Fluid Mechanics, 1996, 323, 267-283.	3.4	32
32	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.	3.4	31
33	The solidification of buoyancy-driven flow in a flexible-walled channel. Part 1. Constant-volume release. Journal of Fluid Mechanics, 1994, 272, 21-44.	3.4	30
34	Leakage from gravity currents in a porous medium. Part 1. A localized sink. Journal of Fluid Mechanics, 2011, 666, 391-413.	3.4	29
35	Self-similar recoil of inviscid drops. Physics of Fluids, 2004, 16, 1379-1394.	4.0	27
36	Stability of columnar convection in a porous medium. Journal of Fluid Mechanics, 2013, 737, 205-231.	3.4	27

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37	The spread of subducted lithospheric material along the mid-mantle boundary. Earth and Planetary Science Letters, 1987, 85, 241-247.	4.4	26
38	On the hydrodynamic interaction between a particle and a permeable surface. Physics of Fluids, 2013, 25, 073103.	4.0	26
39	A fluid-mechanical model of elastocapillary coalescence. Journal of Fluid Mechanics, 2014, 745, 621-646.	3.4	24
40	Thin-sheet flow between coalescing bubbles. Journal of Fluid Mechanics, 2015, 773, .	3.4	23
41	Long-wavelength instability of a line plume. Journal of Fluid Mechanics, 1987, 175, 413.	3.4	22
42	The solidification of buoyancy-driven flow in a flexible-walled channel. Part 2. Continual release. Journal of Fluid Mechanics, 1994, 272, 45-66.	3.4	22
43	Steady axisymmetric creeping plumes above a planar boundary. Part 2. A distributed source. Journal of Fluid Mechanics, 2006, 567, 379.	3.4	22
44	Leakage from gravity currents in a porous medium. Part 2. A line sink. Journal of Fluid Mechanics, 2011, 666, 414-427.	3.4	22
45	The asymptotic structure of a slender dragged viscous thread. Journal of Fluid Mechanics, 2011, 674, 489-521.	3.4	20
46	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
47	Symmetry and self-similarity in rupture and pinchoff: a geometric bifurcation. European Journal of Applied Mathematics, 2001, 12, 209-232.	2.9	19
48	Early-time free-surface flow driven by a deforming boundary. Journal of Fluid Mechanics, 2015, 767, 811-841.	3.4	19
49	Shape and stability of axisymmetric levitated viscous drops. Journal of Fluid Mechanics, 2008, 617, 167-185.	3.4	18
50	Further results for convection driven by the differential sedimentation of particles. Journal of Fluid Mechanics, 1992, 243, 227.	3.4	17
51	Steady axisymmetric creeping plumes above a planar boundary. Part 1. A point source. Journal of Fluid Mechanics, 2006, 567, 361.	3.4	17
52	Evaporation effects in elastocapillary aggregation. Journal of Fluid Mechanics, 2016, 792, 168-185.	3.4	16
53	Viscous flow under an elastic sheet. Journal of Fluid Mechanics, 2020, 905, .	3.4	16
54	Rayleighâ€“Taylor instability of an inclined buoyant viscous cylinder. Journal of Fluid Mechanics, 2011, 671, 313-338.	3.4	15

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55	The self-similar rise of a buoyant thermal in very viscous flow. Journal of Fluid Mechanics, 2008, 606, 295-324.	3.4	13
56	Motion of a non-axisymmetric particle in viscous shear flow. Journal of Fluid Mechanics, 2019, 872, 532-559.	3.4	13
57	On penetrative convection at low PÃ©clet number. Journal of Fluid Mechanics, 1995, 292, 229-248.	3.4	11
58	Thermal winds forced by inhomogeneous boundary conditions in rotating, stratified, hydromagnetic fluid. Journal of Fluid Mechanics, 2004, 505, 163-178.	3.4	11
59	Release of a viscous power-law fluid over an inviscid ocean. Journal of Fluid Mechanics, 2012, 700, 63-76.	3.4	11
60	Viscous control of shallow elastic fracture: peeling without precursors. Journal of Fluid Mechanics, 2019, 868, 119-140.	3.4	11
61	Stability of three-dimensional columnar convection in a porous medium. Journal of Fluid Mechanics, 2017, 829, 89-111.	3.4	10
62	Compressible particle-driven gravity currents. Journal of Fluid Mechanics, 2001, 445, 305-325.	3.4	9
63	Shock formation in two-layer equal-density viscous gravity currents. Journal of Fluid Mechanics, 2019, 863, 730-756.	3.4	9
64	Rise and deflection of mantle plume tails. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	8
65	Stability of straining flow with surface cooling and temperature-dependent viscosity. Journal of Fluid Mechanics, 1998, 365, 369-381.	3.4	6
66	The relaxation time for viscous and porous gravity currents following a change in flux. Journal of Fluid Mechanics, 2017, 821, 330-342.	3.4	6
67	Buoyancy-driven plumes in a layered porous medium. Journal of Fluid Mechanics, 2020, 883, .	3.4	6
68	Slender-body theory for steady sheared plumes in very viscous fluid. Journal of Fluid Mechanics, 2008, 612, 21-44.	3.4	3
69	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
70	Capillary retraction of the edge of a stretched viscous sheet. Journal of Fluid Mechanics, 2018, 844, .	3.4	3
71	Viscous-fingering mechanisms under a peeling elastic sheet. Journal of Fluid Mechanics, 2019, 864, 1177-1207.	3.4	3
72	Creeping axisymmetric plumes with strongly temperature-dependent viscosity. Journal of Fluid Mechanics, 2014, 745, .	3.4	2

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73	Hydrodynamic diffusion of sedimenting point particles in a vertical shear flow. Journal of Fluid Mechanics, 2013, 730, 699-732.	3.4	1
74	Free convection beneath a heated horizontal plate in a rapidly rotating system. Journal of Fluid Mechanics, 2007, 586, 491-506.	3.4	0