

Jonathan Mestel

List of Publications by Year in descending order

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42
papers

692
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687363

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552781

26
g-index

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42
docs citations

42
times ranked

440
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrohydrodynamic stability of a slightly viscous jet. <i>Journal of Fluid Mechanics</i> , 1994, 274, 93-113.	3.4	92
2	Electrohydrodynamic stability of a highly viscous jet. <i>Journal of Fluid Mechanics</i> , 1996, 312, 311-326.	3.4	90
3	Magnetic levitation of liquid metals. <i>Journal of Fluid Mechanics</i> , 1982, 117, 27-43.	3.4	86
4	Steady flow in a helically symmetric pipe. <i>Journal of Fluid Mechanics</i> , 1998, 370, 297-320.	3.4	63
5	An idealized pulsar magnetosphere: the relativistic force-free approximation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 349, 213-224.	4.4	58
6	Behaviour of a conducting drop in a highly viscous fluid subject to an electric field. <i>Journal of Fluid Mechanics</i> , 2007, 581, 469-493.	3.4	55
7	Unsteady blood flow in a helically symmetric pipe. <i>Journal of Fluid Mechanics</i> , 1998, 370, 321-345.	3.4	42
8	Annular self-similar solutions in ideal magnetogasdynamics. <i>Journal of Plasma Physics</i> , 2008, 74, 531-554.	2.1	25
9	The electrohydrodynamic cone-jet at high reynolds number. <i>Journal of Aerosol Science</i> , 1994, 25, 1037-1047.	3.8	18
10	Flow through a charged biopolymer layer. <i>Journal of Fluid Mechanics</i> , 1999, 383, 353-378.	3.4	17
11	Steady flow in a dividing pipe. <i>Journal of Fluid Mechanics</i> , 1999, 401, 339-364.	3.4	16
12	Helical Flow Around Arterial Bends for Varying Body Mass. <i>Journal of Biomechanical Engineering</i> , 2000, 122, 135-142.	1.3	14
13	On the flow in a channel induction furnace. <i>Journal of Fluid Mechanics</i> , 1984, 147, 431.	3.4	13
14	An iterative method for high-Reynolds-number flows with closed streamlines. <i>Journal of Fluid Mechanics</i> , 1989, 200, 1-18.	3.4	11
15	Bistability and hysteresis of axisymmetric thermal convection between differentially rotating spheres. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	3.4	9
16	Deflection of a stream of liquid metal by means of an alternating magnetic field. <i>Journal of Fluid Mechanics</i> , 1988, 194, 309.	3.4	8
17	Maximal accelerations for charged drops in an electric field. <i>Physics of Fluids</i> , 2002, 14, 1396-1402.	4.0	8
18	More Accurate Skin-Depth Approximations. <i>IMA Journal of Applied Mathematics</i> , 1990, 45, 33-48.	1.6	7

#	ARTICLE	IF	CITATIONS
19	Steady streaming as a method for drug delivery to the inner ear. <i>Scientific Reports</i> , 2021, 11, 57.	3.3	7
20	Kinematic dynamo action in a helical pipe. <i>Journal of Fluid Mechanics</i> , 2005, 535, 347-367.	3.4	6
21	Extended series solutions and bifurcations of the Dean equations. <i>Journal of Fluid Mechanics</i> , 2014, 739, 179-195.	3.4	5
22	On the stability of high-Reynolds-number flows with closed streamlines. <i>Journal of Fluid Mechanics</i> , 1989, 200, 19-38.	3.4	4
23	Low-Reynolds-number flow through two-dimensional shunts. <i>Journal of Fluid Mechanics</i> , 2013, 723, 21-39.	3.4	4
24	Dynamos in an annulus with fields linear in the axial coordinate. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2018, 112, 222-234.	1.2	4
25	Effects of the glycocalyx on the electrophoretic mobility of red cells and on streaming potentials in blood vessels: predictions of a structurally-based model. <i>Biorheology</i> , 1998, 35, 365-381.	0.4	3
26	Quasi-global galactic magnetorotational instability with Braginskii viscosity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 74-86.	4.4	3
27	“Unforced” Navier–Stokes solutions derived from convection in a curved channel. <i>Journal of Fluid Mechanics</i> , 2018, 848, 676-695.	3.4	3
28	Trapped modes of the Helmholtz equation in infinite waveguides with wall indentations and circular obstacles. <i>IMA Journal of Applied Mathematics</i> , 2019, 84, 312-344.	1.6	3
29	Linear stability of a ferrofluid centred around a current-carrying wire. <i>Journal of Fluid Mechanics</i> , 2022, 942, .	3.4	3
30	The influence of geometry on inviscid decay rates in haemodynamic flows. <i>Journal of Fluid Mechanics</i> , 2002, 462, 185-207.	3.4	2
31	Nonlinear dynamos in laminar, helical pipe flow. <i>Physics of Fluids</i> , 2006, 18, 043602.	4.0	2
32	A double-helix laminar dynamo. <i>Journal of Fluid Mechanics</i> , 2007, 573, 237-246.	3.4	2
33	On annular self-similar solutions in resistive magnetogasdynamics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2008, 464, 2535-2547.	2.1	2
34	Complex solutions of the Dean equations and non-uniqueness at all Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2017, 818, 241-259.	3.4	2
35	More Accurate Skin-Depth Approximations. <i>Mechanics of Fluids and Transport Processes</i> , 1989, , 301-307.	0.1	2
36	Laminar instability of pressure-driven dynamos in multiple helical pipes. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2012, 106, 493-507.	1.2	1

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37	Weakly nonlinear mode interactions in spherical Rayleigh-Bénard convection. <i>Journal of Fluid Mechanics</i> , 2019, 874, 359-390.	3.4	1
38	Some similarity solutions for three-dimensional boundary layers. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190267.	2.1	1
39	Magnetohydrodynamic flows and turbulence: a report on the Third Beer-Sheva Seminar. <i>Journal of Fluid Mechanics</i> , 1981, 112, 487.	3.4	0
40	Separation regions in two-dimensional high-Reynolds-number flow. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2001, 457, 599-622.	2.1	0
41	Merging Flow in Co-Axial Cylindrical Pipes. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2001, 54, 655-673.	1.3	0
42	Dynamo action between two rotating discs. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 0, , 1-18.	1.2	0