

Warren R Smith

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

173
citations

1163117

8
h-index

1125743

13
g-index

19
all docs

19
docs citations

19
times ranked

96
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical investigation of bubble dynamics at a corner. <i>Physics of Fluids</i> , 2020, 32, .	4.0	41
2	The propagation and basal solidification of two-dimensional and axisymmetric viscous gravity currents. <i>Journal of Engineering Mathematics</i> , 2004, 50, 359-378.	1.2	27
3	Modulation equations for strongly nonlinear oscillations of an incompressible viscous drop. <i>Journal of Fluid Mechanics</i> , 2010, 654, 141-159.	3.4	23
4	Radiative decay of the nonlinear oscillations of an adiabatic spherical bubble at small Mach number. <i>Journal of Fluid Mechanics</i> , 2018, 837, 1-18.	3.4	13
5	Microbubble dynamics in a viscous compressible liquid subject to ultrasound. <i>Physics of Fluids</i> , 2022, 34, .	4.0	10
6	Viscous decay of nonlinear oscillations of a spherical bubble at large Reynolds number. <i>Physics of Fluids</i> , 2017, 29, .	4.0	9
7	On the sensitivity of strongly nonlinear autonomous oscillators and oscillatory waves to small perturbations. <i>IMA Journal of Applied Mathematics</i> , 2005, 70, 359-385.	1.6	8
8	A theoretical model for the growth of spherical bubbles by rectified diffusion. <i>Journal of Fluid Mechanics</i> , 2022, 939, .	3.4	8
9	Modulation equations and Reynolds averaging for finite-amplitude non-linear waves in an incompressible fluid. <i>IMA Journal of Applied Mathematics</i> , 2007, 72, 923-945.	1.6	5
10	Traveling Waves in Two-Dimensional Plane Poiseuille Flow. <i>SIAM Journal on Applied Mathematics</i> , 2015, 75, 2147-2169.	1.8	5
11	Numerical investigation of cavitation generated by an ultrasonic dental scaler tip vibrating in a compressible liquid. <i>Ultrasonics Sonochemistry</i> , 2020, 63, 104963.	8.2	5
12	Solidification of a two-dimensional high-Reynolds-number flow and its application to laser percussion drilling. <i>European Journal of Applied Mathematics</i> , 2007, 18, 1-19.	2.9	4
13	Wave-structure interactions for the distensible tube wave energy converter. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160160.	2.1	4
14	Preface to the sixth special issue on "Practical Asymptotics". <i>Journal of Engineering Mathematics</i> , 2017, 102, 1-2.	1.2	4
15	Asymptotic analysis of the attractors in two-dimensional Kolmogorov flow. <i>European Journal of Applied Mathematics</i> , 2018, 29, 393-416.	2.9	3
16	The pitfalls of investigating rotational flows with the Euler equations. <i>Journal of Fluid Mechanics</i> , 2021, 927, .	3.4	3
17	Predictions of thermoelastic stress in a broad-area semiconductor laser. <i>Applied Physics Letters</i> , 2007, 90, 121105.	3.3	1
18	Necessary conditions for breathers on continuous media to approximate breathers on discrete lattices. <i>European Journal of Applied Mathematics</i> , 2016, 27, 23-41.	2.9	0

#	ARTICLE	IF	CITATIONS
19	The radiated acoustic pressure and time scales of a spherical bubble. Fluid Dynamics Research, 2021, 53, 015502.	1.3	0