

Andrew Hazel

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,593
citations

304368

22
h-index

189595

50
g-index

60
all docs

60
docs citations

60
times ranked

2473
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of isolated ridges and grooves on static menisci in rectangular channels. <i>Journal of Fluid Mechanics</i> , 2022, 935, .	1.4	1
2	The life and fate of a bubble in a geometrically perturbed Hele-Shaw channel. <i>Journal of Fluid Mechanics</i> , 2021, 914, .	1.4	9
3	Modelling finger propagation in elasto-rigid channels. <i>Journal of Fluid Mechanics</i> , 2021, 916, .	1.4	5
4	Spatio-temporal symmetry breaking in the flow past an oscillating cylinder. <i>Journal of Fluid Mechanics</i> , 2021, 918, .	1.4	3
5	A microstructural model of tendon failure. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 122, 104665.	1.5	8
6	Improving the modified XFEM for optimal high-order approximation. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 411-433.	1.5	4
7	POLED displays: Robust printing of pixels. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	5
8	The influence of invariant solutions on the transient behaviour of an air bubble in a Hele-Shaw channel. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190434.	1.0	5
9	Spatial and Temporal Adaptivity in Numerical Studies of Instabilities, with Applications to Fluid Flows. <i>Computational Methods in Applied Sciences (Springer)</i> , 2019, , 75-115.	0.1	0
10	On the Feasibility of Automated Mechanical Ventilation Control Through EIT. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 2459-2470.	2.5	5
11	Bubble propagation in Hele-Shaw channels with centred constrictions. <i>Fluid Dynamics Research</i> , 2018, 50, 021403.	0.6	11
12	On the multiple solutions of coating and rimming flows on rotating cylinders. <i>Journal of Fluid Mechanics</i> , 2018, 835, 540-574.	1.4	29
13	Sequential deposition of microdroplets on patterned surfaces. <i>Soft Matter</i> , 2018, 14, 8709-8716.	1.2	9
14	Topological fluid mechanics of the formation of the Kármán-vortex street. <i>Journal of Fluid Mechanics</i> , 2017, 812, 199-221.	1.4	22
15	Reopening modes of a collapsed elasto-rigid channel. <i>Journal of Fluid Mechanics</i> , 2017, 819, 121-146.	1.4	15
16	On the buckling of elastic rings by external confinement. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160227.	1.6	18
17	Stochastic dynamics of resistive switching: fluctuations lead to optimal particle number. <i>New Journal of Physics</i> , 2017, 19, 093007.	1.2	3
18	Viscous fingering and dendritic growth under an elastic membrane. <i>Journal of Fluid Mechanics</i> , 2017, 826, .	1.4	18

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19	On the buckling of an elastic holey column. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170477.	1.0	21
20	Bubble propagation on a rail: a concept for sorting bubbles by size. Soft Matter, 2017, 13, 8684-8697.	1.2	7
21	Controlling droplet spreading with topography. Physical Review Fluids, 2017, 2, .	1.0	17
22	Discussion: "Comparison of Statistical Methods for Assessing Spatial Correlations Between Maps of Different Arterial Properties" (Rowland, E. M., Mohamied, Y., Chooi, K. Y., Bailey, E. L., and Weinberg, P.) Tj ETQq0 0 0 rgBT /Qverlock 10 Local Hemodynamics. Journal of Biomechanical Engineering, 2016, 138, .	0.6	0
23	Sensitivity of Saffman-Taylor fingers to channel-depth perturbations. Journal of Fluid Mechanics, 2016, 794, 343-368.	1.4	24
24	Buckling of a holey column. Soft Matter, 2016, 12, 7112-7118.	1.2	16
25	The trapping in high-shear regions of slender bacteria undergoing chemotaxis in a channel. Journal of Fluid Mechanics, 2015, 771, .	1.4	44
26	CHAPTER 8. Flow in Flexible/Collapsible Tubes. RSC Soft Matter, 2015, , 280-312.	0.2	3
27	Geometry-induced Oscillations of Finite Bubbles in Microchannels. Procedia IUTAM, 2014, 11, 81-88.	1.2	6
28	Numerical Bifurcation Methods and their Application to Fluid Dynamics: Analysis beyond Simulation. Communications in Computational Physics, 2014, 15, 1-45.	0.7	136
29	Sequential deposition of overlapping droplets to form a liquid line. Journal of Fluid Mechanics, 2014, 761, 261-281.	1.4	28
30	Multiple finger propagation modes in Hele-Shaw channels of variable depth. Journal of Fluid Mechanics, 2014, 746, 123-164.	1.4	26
31	Multiple states of finger propagation in partially occluded tubes. Physics of Fluids, 2013, 25, .	1.6	10
32	Oscillatory bubbles induced by geometrical constraint. Physics of Fluids, 2012, 24, .	1.6	19
33	On the liquid lining in fluid-conveying curved tubes. Journal of Fluid Mechanics, 2012, 705, 213-233.	1.4	9
34	Homogenization methods to approximate the effective response of random fibre-reinforced Composites. International Journal of Solids and Structures, 2012, 49, 1421-1433.	1.3	21
35	Fluid-Structure Interaction in Internal Physiological Flows. Annual Review of Fluid Mechanics, 2011, 43, 141-162.	10.8	162
36	The spatial distribution of gyrotactic swimming micro-organisms in laminar flow fields. Journal of Fluid Mechanics, 2011, 680, 602-635.	1.4	50

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37	The Jefferyâ€“Hamel similarity solution and its relation to flow in a diverging channel. <i>Journal of Fluid Mechanics</i> , 2011, 687, 404-430.	1.4	20
38	Unsteady flow in a rotating torus after a sudden change in rotation rate. <i>Journal of Fluid Mechanics</i> , 2011, 688, 88-119.	1.4	12
39	A partial differential equation system for modelling stochastic storage in physical systems with applications to wind power generation. <i>IMA Journal of Management Mathematics</i> , 2011, 22, 231-252.	1.1	9
40	Tube geometry can force switchlike transitions in the behavior of propagating bubbles. <i>Physics of Fluids</i> , 2009, 21, .	1.6	20
41	Solvers for large-displacement fluidâ€“structure interaction problems: segregated versus monolithic approaches. <i>Computational Mechanics</i> , 2008, 43, 91-101.	2.2	224
42	The mechanics of airway closure. <i>Respiratory Physiology and Neurobiology</i> , 2008, 163, 214-221.	0.7	89
43	The influence of gravity on the steady propagation of a semi-infinite bubble into a flexible channel. <i>Physics of Fluids</i> , 2008, 20, .	1.6	12
44	The steady propagation of an air finger into a rectangular tube. <i>Journal of Fluid Mechanics</i> , 2008, 614, 173-195.	1.4	46
45	Scaling Properties of Coating Flows in Rectangular Channels. <i>Physical Review Letters</i> , 2007, 99, 234501.	2.9	30
46	Use of different exhaled nitric oxide multiple flow rate models in COPD. <i>European Respiratory Journal</i> , 2007, 29, 651-659.	3.1	48
47	Midplane-symmetry breaking in the flow between two counter-rotating disks. <i>Journal of Engineering Mathematics</i> , 2007, 57, 273-288.	0.6	8
48	Finite-Reynolds-Number Effects in Steady, Three-Dimensional Airway Reopening. <i>Journal of Biomechanical Engineering</i> , 2006, 128, 573-578.	0.6	11
49	oomph-lib â€“ An Object-Oriented Multi-Physics Finite-Element Library. , 2006, , 19-49.		95
50	Surface-tension-induced buckling of liquid-lined elastic tubes: a model for pulmonary airway closure. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2005, 461, 1847-1868.	1.0	40
51	Spatial comparison between wall shear stress measures and porcine arterial endothelial permeability. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H1916-H1922.	1.5	394
52	Mass transfer from a finite strip near an oscillating stagnation point â€“ implications for atherogenesis. <i>Journal of Engineering Mathematics</i> , 2003, 47, 315-334.	0.6	2
53	Steady finite-Reynolds-number flows in three-dimensional collapsible tubes. <i>Journal of Fluid Mechanics</i> , 2003, 486, 79-103.	1.4	65
54	Three-dimensional airway reopening: the steady propagation of a semi-infinite bubble into a buckled elastic tube. <i>Journal of Fluid Mechanics</i> , 2003, 478, 47-70.	1.4	60

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55	Modeling the Adaptive Permeability Response of Porcine Iliac Arteries to Acute Changes in Mural Shear. <i>Annals of Biomedical Engineering</i> , 2003, 31, 412-419.	1.3	5
56	The steady propagation of a semi-infinite bubble into a tube of elliptical or rectangular cross-section. <i>Journal of Fluid Mechanics</i> , 2002, 470, 91-114.	1.4	135
57	Method for Assessing the Need for Case-Specific Hemodynamics: Application to the Distribution of Vascular Permeability. <i>Annals of Biomedical Engineering</i> , 2000, 28, 1300-1306.	1.3	5
58	Vascular Endothelial Cells Minimize the Total Force on Their Nuclei. <i>Biophysical Journal</i> , 2000, 78, 47-54.	0.2	56
59	Effects of Size and Shape (Aspect Ratio) on the Hemodynamics of Saccular Aneurysms: A Possible Index for Surgical Treatment of Intracranial Aneurysms. <i>Neurosurgery</i> , 1999, 45, 119-130.	0.6	308
60	Effects of Size and Shape (Aspect Ratio) on the Hemodynamics of Saccular Aneurysms: A Possible Index for Surgical Treatment of Intracranial Aneurysms. <i>Neurosurgery</i> , 1999, 45, 119.	0.6	130