

Mark Blyth

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5975146/publications.pdf>

Version: 2024-02-01

65
papers

994
citations

471509

17
h-index

454955

30
g-index

65
all docs

65
docs citations

65
times ranked

624
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability of waves on fluid of infinite depth with constant vorticity. <i>Journal of Fluid Mechanics</i> , 2022, 936, .	3.4	4
2	The deformation of an elastic cell in a circulatory fluid motion. <i>Wave Motion</i> , 2022, 113, 102995.	2.0	2
3	Termination points and homoclinic glueing for a class of inhomogeneous nonlinear ordinary differential equations. <i>Nonlinearity</i> , 2021, 34, 532-561.	1.4	0
4	Instabilities at a sheared interface over a liquid laden with soluble surfactant. <i>Journal of Engineering Mathematics</i> , 2021, 129, 1.	1.2	1
5	Aeciospore ejection in the rust pathogen <i>Puccinia graminis</i> is driven by moisture ingress. <i>Communications Biology</i> , 2021, 4, 1216.	4.4	4
6	A model of an inflatable elastic aerofoil. <i>Journal of Engineering Mathematics</i> , 2021, 131, 1.	1.2	0
7	Nonlinear dynamics of two-layer channel flow with soluble surfactant below or above the critical micelle concentration. <i>Journal of Fluid Mechanics</i> , 2020, 900, .	3.4	4
8	Microfluidics for pharmaceutical nanoparticle fabrication: The truth and the myth. <i>International Journal of Pharmaceutics</i> , 2020, 584, 119408.	5.2	72
9	The Nonlocal Ablowitz–Fokas–Muskhelishvili Water-Wave Method for Cylindrical Geometry. <i>SIAM Journal on Applied Mathematics</i> , 2019, 79, 743-753.	1.8	0
10	The role of soluble surfactants in the linear stability of two-layer flow in a channel. <i>Journal of Fluid Mechanics</i> , 2019, 873, 18-48.	3.4	11
11	How water flow, geometry, and material properties drive plant movements. <i>Journal of Experimental Botany</i> , 2019, 70, 3549-3560.	4.8	17
12	Oxygen uptake and denitrification in soil aggregates. <i>Acta Mechanica</i> , 2018, 229, 595-612.	2.1	6
13	Generalized Contour Dynamics: A Review. <i>Regular and Chaotic Dynamics</i> , 2018, 23, 507-518.	0.8	4
14	Two-dimensional pulse dynamics and the formation of bound states on electrified falling films. <i>Journal of Fluid Mechanics</i> , 2018, 855, 210-235.	3.4	10
15	Continuation methods for time-periodic travelling-wave solutions to evolution equations. <i>Applied Mathematics Letters</i> , 2018, 86, 291-297.	2.7	4
16	On the critical free-surface flow over localised topography. <i>Journal of Fluid Mechanics</i> , 2017, 832, 73-96.	3.4	8
17	The stability of capillary waves on fluid sheets. <i>Journal of Fluid Mechanics</i> , 2016, 806, 5-34.	3.4	8
18	Inertialess multilayer film flow with surfactant: Stability and traveling waves. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	7

#	ARTICLE	IF	CITATIONS
19	Steady free-surface flow over spatially periodic topography. <i>Journal of Fluid Mechanics</i> , 2015, 781, .	3.4	3
20	Flow in a slowly tapering channel with oscillating walls. <i>Acta Mechanica</i> , 2015, 226, 1167-1181.	2.1	0
21	Experimental investigation of hysteresis in the break-up of liquid curtains. <i>Chemical Engineering Science</i> , 2014, 117, 248-263.	3.8	15
22	Multi-layer film flow down an inclined plane: experimental investigation. <i>Experiments in Fluids</i> , 2014, 55, 1.	2.4	5
23	Solitary waves on a ferrofluid jet. <i>Journal of Fluid Mechanics</i> , 2014, 750, 401-420.	3.4	14
24	Stability of film flow over inclined topography based on a long-wave nonlinear model. <i>Journal of Fluid Mechanics</i> , 2013, 729, 638-671.	3.4	45
25	Stability of surfactant-laden core-annular flow and rod-annular flow to non-axisymmetric modes. <i>Journal of Fluid Mechanics</i> , 2013, 716, .	3.4	7
26	Deformation of an elastic cell in a uniform stream and in a circulatory flow. <i>IMA Journal of Applied Mathematics</i> , 2013, 78, 665-684.	1.6	2
27	Flow of a liquid layer over heated topography. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 4067-4087.	2.1	8
28	Electrified free-surface flow of an inviscid liquid past topography. <i>Physics of Fluids</i> , 2012, 24, .	4.0	6
29	Using surfactants to stabilize two-phase pipe flows of core-annular type. <i>Journal of Fluid Mechanics</i> , 2012, 704, 333-359.	3.4	20
30	Oscillatory oblique stagnation-point flow towards a plane wall. <i>Acta Mechanica</i> , 2012, 223, 449-461.	2.1	0
31	Hydroelastic waves on fluid sheets. <i>Journal of Fluid Mechanics</i> , 2011, 689, 541-551.	3.4	20
32	Electrified film flow over step topography at zero Reynolds number: an analytical and computational study. <i>Journal of Engineering Mathematics</i> , 2011, 69, 169-183.	1.2	12
33	Motion of a two-dimensional elastic capsule in a branching channel flow. <i>Journal of Fluid Mechanics</i> , 2011, 669, 3-31.	3.4	29
34	Electrified falling-film flow over topography in the presence of a finite electrode. <i>Journal of Engineering Mathematics</i> , 2010, 68, 339-353.	1.2	10
35	Nonlinear development of two-layer Couette-Poiseuille flow in the presence of surfactant. <i>Physics of Fluids</i> , 2010, 22, .	4.0	20
36	Axisymmetric flow of two fluids in a pulsating pipe. <i>Journal of Engineering Mathematics</i> , 2009, 63, 135-151.	1.2	0

#	ARTICLE	IF	CITATIONS
37	Effect of inertia on electrified film flow over a wavy wall. <i>Journal of Engineering Mathematics</i> , 2009, 65, 229-242.	1.2	14
38	Viscous Electrified Film Flow over Step Topography. <i>SIAM Journal on Applied Mathematics</i> , 2009, 70, 845-865.	1.8	13
39	Two-layer flow in a corrugated channel. <i>Journal of Engineering Mathematics</i> , 2008, 60, 127-147.	1.2	16
40	Effect of an electric field on the stability of contaminated film flow down an inclined plane. <i>Journal of Fluid Mechanics</i> , 2008, 595, 221-237.	3.4	20
41	A note on oblique stagnation-point flow. <i>Physics of Fluids</i> , 2008, 20, .	4.0	43
42	Effect of an electric field on film flow down a corrugated wall at zero Reynolds number. <i>Physics of Fluids</i> , 2008, 20, .	4.0	37
43	Electrified viscous thin film flow over topography. <i>Journal of Fluid Mechanics</i> , 2008, 597, 449-475.	3.4	60
44	Particle encapsulation due to thread breakup in Stokes flow. <i>Journal of Fluid Mechanics</i> , 2008, 617, 141-166.	3.4	6
45	Unsteady axisymmetric stagnation flow on a circular cylinder. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2007, 60, 125-138.	1.3	3
46	91.54 Did Kepler know this?. <i>Mathematical Gazette</i> , 2007, 91, 332-334.	0.0	2
47	Stokes flow through a single-screw extruder. <i>AIChE Journal</i> , 2007, 53, 69-77.	3.6	3
48	Surfactant-driven instability in two-fluid pipe and channel flows. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 1100601-1100602.	0.2	1
49	Free-surface film flow over topography under electric fields. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 2100043-2100044.	0.2	0
50	A comparison of interpolation grids over the triangle or the tetrahedron. <i>Journal of Engineering Mathematics</i> , 2007, 56, 263-272.	1.2	12
51	Effect of pulsations on two-layer channel flow. <i>Journal of Engineering Mathematics</i> , 2007, 59, 123-137.	1.2	5
52	A comparative study of the boundary and finite element methods for the Helmholtz equation in two dimensions. <i>Engineering Analysis With Boundary Elements</i> , 2007, 31, 35-49.	3.7	11
53	A Lobatto interpolation grid over the triangle. <i>IMA Journal of Applied Mathematics</i> , 2006, 71, 153-169.	1.6	47
54	Stability of axisymmetric core-annular flow in the presence of an insoluble surfactant. <i>Journal of Fluid Mechanics</i> , 2006, 548, 207.	3.4	37

#	ARTICLE	IF	CITATIONS
55	Effect of pulsations on the stability of a gas column. <i>Theoretical and Computational Fluid Dynamics</i> , 2005, 19, 23-37.	2.2	3
56	Stagnation-point flow against a liquid film on a plane wall. <i>Acta Mechanica</i> , 2005, 180, 203-219.	2.1	34
57	New solutions for capillary waves on curved sheets of fluid. <i>IMA Journal of Applied Mathematics</i> , 2005, 70, 588-601.	1.6	7
58	Effect of stretching on interfacial stability. <i>Acta Mechanica</i> , 2004, 170, 149.	2.1	5
59	Effect of inertia on the Marangoni instability of two-layer channel flow, Part II: normal-mode analysis. <i>Journal of Engineering Mathematics</i> , 2004, 50, 329-341.	1.2	32
60	Evolution Equations for the Surface Concentration of an Insoluble Surfactant; Applications to the Stability of an Elongating Thread and a Stretched Interface. <i>Theoretical and Computational Fluid Dynamics</i> , 2004, 17, 147-164.	2.2	26
61	Solution space of axisymmetric capsules enclosed by elastic membranes. <i>European Journal of Mechanics, A/Solids</i> , 2004, 23, 877-892.	3.7	14
62	Effect of surfactant on the stability of film flow down an inclined plane. <i>Journal of Fluid Mechanics</i> , 2004, 521, 241-250.	3.4	80
63	Effect of surfactants on the stability of two-layer channel flow. <i>Journal of Fluid Mechanics</i> , 2004, 505, 59-86.	3.4	65
64	New solutions for capillary waves on fluid sheets. <i>Journal of Fluid Mechanics</i> , 2004, 507, 255-264.	3.4	13
65	Oscillatory Flow Near a Stagnation Point. <i>SIAM Journal on Applied Mathematics</i> , 2003, 63, 1604-1614.	1.8	7