J-M Vanden-Broeck

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10939930/publications.pdf

Version: 2024-02-01

76 papers	1,522 citations	331538 21 h-index	330025 37 g-index
76 all docs	76 docs citations	76 times ranked	453 citing authors

#	Article	IF	Citations
1	Improved calculations of waterfalls and weir flows. Journal of Fluid Mechanics, 2022, 941, .	1.4	0
2	A local model for the limiting configuration of interfacial solitary waves. Journal of Fluid Mechanics, 2021, 921, .	1.4	4
3	New solutions for periodic interfacial gravity waves. Journal of Fluid Mechanics, 2021, 928, .	1.4	3
4	New exotic capillary free-surface flows. Journal of Fluid Mechanics, 2020, 899, .	1.4	1
5	Progressive flexuralâ€“gravity waves with constant vorticity. Journal of Fluid Mechanics, 2020, 905, .	1.4	7
6	Quasi-normal free-surface impacts, capillary rebounds and application to Faraday walkers. Journal of Fluid Mechanics, 2019, 873, 856-888.	1.4	14
7	Travelling wave solutions on anÂaxisymmetricÂferrofluid jet. Journal of Fluid Mechanics, 2019, 865, 414-439.	1.4	6
8	Solution selection of axisymmetric TaylorÂbubbles. Journal of Fluid Mechanics, 2018, 843, 518-535.	1.4	7
9	Dynamics of fully nonlinear capillaryâ€“gravity solitary waves under normal electric fields. Journal of Engineering Mathematics, 2018, 108, 107-122.	0.6	17
10	Benjaminâ€“Ono Kadomtsevâ€“Petviashviliâ€™s models in interfacial electro-hydrodynamics. European Journal of Mechanics, B/Fluids, 2017, 65, 459-463.	1.2	11
11	Investigation of symmetry breaking in periodic gravityâ€“capillary waves. Journal of Fluid Mechanics, 2017, 811, 622-641.	1.4	5
12	Non-wetting impact of a sphere onto a bath and its application to bouncing droplets. Journal of Fluid Mechanics, 2017, 826, 97-127.	1.4	21
13	Nonlinear Free Surface Flows with Gravity and Surface Tension. , 2016, , 109-134.		0
14	New hydroelastic solitary waves in deep water and their dynamics. Journal of Fluid Mechanics, 2016, 788, 469-491.	1.4	20
15	On asymmetric generalized solitary gravityâ€“capillary waves in finite depth. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160454.	1.0	8
16	On the motion of unsteady translating bubbles in an unbounded Hele-Shaw cell. Physics of Fluids, 2015, 27, .	1.6	7
17	A study of the effects of electric field on two-dimensional inviscid nonlinear free surface flows generated by moving disturbances. Journal of Engineering Mathematics, 2015, 92, 1-13.	0.6	4
18	Asymmetric gravityâ€“capillary solitary waves on deep water. Journal of Fluid Mechanics, 2014, 759, .	1.4	18

#	Article	IF	Citations
19	Hele-Shaw flow driven by an electric field. European Journal of Applied Mathematics, 2014, 25, 425-447.	1.4	2
20	On periodic and solitary pure gravity waves in water of infinite depth. Journal of Engineering Mathematics, 2014, 84, 173-180.	0.6	5
21	Two-dimensional flexural-gravity waves of finite amplitude in deep water. IMA Journal of Applied Mathematics, 2013, 78, 750-761.	0.8	32
22	Hydroelastic waves on fluid sheets. Journal of Fluid Mechanics, 2011, 689, 541-551.	1.4	20
23	Electrified film flow over step topography at zero Reynolds number: an analytical and computational study. Journal of Engineering Mathematics, 2011, 69, 169-183.	0.6	12
24	Potential-flow studies of steady two-dimensional jets, waterfalls, weirs and sprays. Journal of Engineering Mathematics, 2011, 70, 165-174.	0.6	7
25	Hydroelastic solitary waves in deep water. Journal of Fluid Mechanics, 2011, 679, 628-640.	1.4	66
26	Dynamics of steep two-dimensional gravityâ€“capillary solitary waves. Journal of Fluid Mechanics, 2010, 664, 466-477.	1.4	61
27	Electrified falling-film flow over topography in the presence of a finite electrode. Journal of Engineering Mathematics, 2010, 68, 339-353.	0.6	10
28	Viscous Electrified Film Flow over Step Topography. SIAM Journal on Applied Mathematics, 2009, 70, 845-865.	0.8	13
29	On satisfying the radiation condition in free-surface flows. Journal of Fluid Mechanics, 2009, 624, 179-189.	1.4	10
30	Surface tension effects on interaction between two fluids near a wall. Quarterly Journal of Mechanics and Applied Mathematics, 2008, 61, 117-128.	0.5	6
31	Effect of an electric field on film flow down a corrugated wall at zero Reynolds number. Physics of Fluids, 2008, 20, .	1.6	37
32	Electrified viscous thin film flow over topography. Journal of Fluid Mechanics, 2008, 597, 449-475.	1.4	60
33	STUDIES OF NONLINEAR THREE-DIMENSIONAL FREE SURFACE FLOWS. , 2008, , .		0
34	Three-dimensional capillary-gravity waves generated by a moving disturbance. Physics of Fluids, 2007, 19, .	1.6	18
35	A new application of the Kortewegâ€“de Vries Benjamin-Ono equation in interfacial electrohydrodynamics. Physics of Fluids, 2007, 19, 031703.	1.6	31
36	Influence of rapid changes in a channel bottom on free-surface flows. IMA Journal of Applied Mathematics, 2007, 73, 254-273.	0.8	25

#	Article	IF	Citations
37	The effect of disturbances on the flows under a sluice gate and past an inclined plate. Journal of Fluid Mechanics, 2007, 576, 475-490.	1.4	23
38	Free-surface film flow over topography under electric fields. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 2100043-2100044.	0.2	0
39	Nonlinear three-dimensional interfacial flows with a free surface. Journal of Fluid Mechanics, 2007, 591, 481-494.	1.4	20
40	Solitary waves in water: numerical methods and results. WIT Transactions on State-of-the-art in Science and Engineering, 2007, , 55-84.	0.0	5
41	A note on solitary waves with variable surface tension in water of infinite depth. ANZIAM Journal, 2006, 48, 225-235.	0.3	1
42	Three-dimensional gravity-capillary solitary waves in water of finite depth and related problems. Physics of Fluids, 2005, 17, 122101.	1.6	28
43	Free surface flows past surfboards and sluice gates. European Journal of Applied Mathematics, 2005, 16, 601.	1.4	22
44	Nonlinear three-dimensional gravityâ€“capillary solitary waves. Journal of Fluid Mechanics, 2005, 536, 99-105.	1.4	77
45	Forced solitary waves and fronts past submerged obstacles. Chaos, 2005, 15, 037106.	1.0	52
46	Antisymmetric capillary waves in electrified fluid sheets. European Journal of Applied Mathematics, 2004, 15, 609-623.	1.4	35
47	Nonlinear capillary free-surface flows. Journal of Engineering Mathematics, 2004, 50, 415-426.	0.6	12
48	Trapped waves between submerged obstacles. Journal of Fluid Mechanics, 2004, 509, 93-102.	1.4	64
49	New solutions for capillary waves on fluid sheets. Journal of Fluid Mechanics, 2004, 507, 255-264.	1.4	13
50	Waves, Bubbles and Jets. , 2004, , 221-238.		0
51	On internal fronts. Journal of Fluid Mechanics, 2003, 479, 145-154.	1.4	22
52	A note on withdrawal from a fluid of finite depth through a point sink. ANZIAM Journal, 2002, 44, 181-191.	0.3	15
53	Do true elevation gravityâ€“capillary solitary waves exist? A numerical investigation. Journal of Fluid Mechanics, 2002, 454, 403-417.	1.4	44
54	Wilton ripples generated by a moving pressure distribution. Journal of Fluid Mechanics, 2002, 451, 193-201.	1.4	20

#	Article	IF	Citations
55	Stern waves with vorticity. ANZIAM Journal, 2002, 43, 321-332.	0.3	5
56	Waves and singularities in nonlinear capillary free-surface flows. Journal of Engineering Mathematics, 2002, 43, 89-99.	0.6	6
57	The influence of variable surface tension on capillary-gravity waves. Journal of Engineering Mathematics, 2001, 40, 269-282.	0.6	1
58	The distortion of a bubble in a corner flow. European Journal of Applied Mathematics, 2000, 11, 171-179.	1.4	4
59	Time dependent gravity-capillary flows past an obstacle. Wave Motion, 1999, 29, 63-79.	1.0	28
60	Free-surface supercritical splashless flows past a two-dimensional symmetrical rectilinear body. European Journal of Mechanics, B/Fluids, 1998, 17, 811-822.	1.2	2
61	A model for the free-surface flow due to a submerged source in water of infinite depth. Journal of the Australian Mathematical Society Series B Applied Mathematics, 1998, 39, 528-538.	0.3	5
62	Ploughing flows. European Journal of Applied Mathematics, 1998, 9, 463-483.	1.4	4
63	On explicit solutions of the free-surface Euler equations in the presence of gravity. Physics of Fluids, 1997, 9, 2828-2834.	1.6	3
64	Numerical calculations of the free-surface flow under a sluice gate. Journal of Fluid Mechanics, 1997, 330, 339-347.	1.4	48
65	An axisymmetric free surface with a 120 degree angle along a circle. Journal of Fluid Mechanics, 1997, 342, 403-409.	1.4	17
66	Internal solitary waves with stratification in density. Journal of the Australian Mathematical Society Series B Applied Mathematics, 1997, 38, 563-580.	0.3	10
67	Free-surface flows with two stagnation points. Journal of Fluid Mechanics, 1996, 324, 393-406.	1.4	2
68	Waves generated by a source below a free surface in water of finite depth. Journal of Engineering Mathematics, 1996, 30, 603-609.	0.6	5
69	The influence of a layer of mud on the train of waves generated by a moving pressure distribution. Journal of Engineering Mathematics, 1996, 30, 387-400.	0.6	6
70	Stationary solitons and stabilization of the collapse described by KdV-type equations with high nonlinearities and dispersion. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 200, 423-428.	0.9	19
71	Steep solitary waves in water of finite depth with constant vorticity. Journal of Fluid Mechanics, 1994, 274, 339-348.	1.4	68
72	Free-surface flows past a surface-piercing object of finite length. Journal of Fluid Mechanics, 1994, 273, 109-124.	1.4	24

#	ARTICLE	IF	CITATIONS
73	Steady inviscid rotational flows with free surfaces. Journal of Fluid Mechanics, 1994, 258, 105-113.	1.4	10
74	Solitary and periodic gravityâ€"capillary waves of finite amplitude. Journal of Fluid Mechanics, 1983, 134, 205.	1.4	127
75	Accurate computations for steep solitary waves. Journal of Fluid Mechanics, 1983, 136, 63.	1.4	62
76	Numerical computation of steep gravity waves in shallow water. Physics of Fluids, 1979, 22, 1868.	1.4	45