

John W M Bush

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

5,484

citations

37

h-index

73

g-index

94

ext. papers

6,386

ext. citations

5.9

avg, IF

6.59

L-index

#	Paper	IF	Citations
88	The hydrodynamics of water strider locomotion. <i>Nature</i> , 2003 , 424, 663-6	50.4	515
87	Violent expiratory events: on coughing and sneezing. <i>Journal of Fluid Mechanics</i> , 2014 , 745, 537-563	3.7	458
86	WALKING ON WATER: Biocomotion at the Interface. <i>Annual Review of Fluid Mechanics</i> , 2006 , 38, 339-369		366
85	Water entry of small hydrophobic spheres. <i>Journal of Fluid Mechanics</i> , 2009 , 619, 45-78	3.7	222
84	Hyperpycnal plume formation from riverine outflows with small sediment concentrations. <i>Sedimentology</i> , 2001 , 48, 465-478	3.3	205
83	Meniscus-climbing insects. <i>Nature</i> , 2005 , 437, 733-6	50.4	192
82	Pilot-Wave Hydrodynamics. <i>Annual Review of Fluid Mechanics</i> , 2015 , 47, 269-292	22	174
81	The Integument of Water-walking Arthropods: Form and Function. <i>Advances in Insect Physiology</i> , 2007 , 117-192	2.5	166
80	The water entry of decelerating spheres. <i>Physics of Fluids</i> , 2010 , 22, 032102	4.4	138
79	Underwater breathing: the mechanics of plastron respiration. <i>Journal of Fluid Mechanics</i> , 2008 , 608, 275-296	3.7	136
78	A guideline to limit indoor airborne transmission of COVID-19. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	129
77	On the collision of laminar jets: fluid chains and fishbones. <i>Journal of Fluid Mechanics</i> , 2004 , 511, 285-310	3.7	116
76	The influence of surface tension on the circular hydraulic jump. <i>Journal of Fluid Mechanics</i> , 2003 , 489, 229-238	3.7	110
75	Drops walking on a vibrating bath: towards a hydrodynamic pilot-wave theory. <i>Journal of Fluid Mechanics</i> , 2013 , 727, 612-647	3.7	102
74	The hydrodynamics of water-walking arthropods. <i>Journal of Fluid Mechanics</i> , 2010 , 644, 5-33	3.7	100
73	Viscous sheet retraction. <i>Journal of Fluid Mechanics</i> , 2009 , 626, 211-240	3.7	96
72	Drops bouncing on a vibrating bath. <i>Journal of Fluid Mechanics</i> , 2013 , 727, 582-611	3.7	93

71	Wavelike statistics from pilot-wave dynamics in a circular corral. <i>Physical Review E</i> , 2013 , 88, 011001	2.4	83
70	A trajectory equation for walking droplets: hydrodynamic pilot-wave theory. <i>Journal of Fluid Mechanics</i> , 2013 , 737, 552-570	3.7	78
69	An experimental investigation of the stability of the circular hydraulic jump. <i>Journal of Fluid Mechanics</i> , 2006 , 558, 33	3.7	73
68	Evaporative instabilities in climbing films. <i>Journal of Fluid Mechanics</i> , 2001 , 442, 217-239	3.7	72
67	Pilot-wave dynamics in a rotating frame: on the emergence of orbital quantization. <i>Journal of Fluid Mechanics</i> , 2014 , 744, 404-429	3.7	71
66	The fluid trampoline: droplets bouncing on a soap film. <i>Journal of Fluid Mechanics</i> , 2009 , 625, 167-203	3.7	71
65	Particle clouds in homogeneous and stratified environments. <i>Journal of Fluid Mechanics</i> , 2003 , 489, 29-54	3.7	71
64	The influence of surface tension gradients on drop coalescence. <i>Physics of Fluids</i> , 2009 , 21, 072107	4.4	68
63	Droplets walking in a rotating frame: from quantized orbits to multimodal statistics. <i>Journal of Fluid Mechanics</i> , 2014 , 739, 444-464	3.7	66
62	Natural drinking strategies. <i>Journal of Fluid Mechanics</i> , 2012 , 705, 7-25	3.7	61
61	Water-walking devices. <i>Experiments in Fluids</i> , 2007 , 43, 769-778	2.5	61
60	Exotic states of bouncing and walking droplets. <i>Physics of Fluids</i> , 2013 , 25, 082002	4.4	57
59	The new wave of pilot-wave theory. <i>Physics Today</i> , 2015 , 68, 47-53	0.9	55
58	Droplets bouncing on a wet, inclined surface. <i>Physics of Fluids</i> , 2012 , 24, 122103	4.4	55
57	Faraday pilot-wave dynamics: modelling and computation. <i>Journal of Fluid Mechanics</i> , 2015 , 778, 361-388	3.7	53
56	A low-cost, precise piezoelectric droplet-on-demand generator. <i>Experiments in Fluids</i> , 2015 , 56, 1	2.5	48
55	Chaotic bouncing of a droplet on a soap film. <i>Physical Review Letters</i> , 2009 , 102, 014501	7.4	48
54	Freshwater Discharge, Sediment Transport, and Modeled Climate Impacts of the Final Drainage of Glacial Lake Agassiz. <i>Journal of Climate</i> , 2009 , 22, 2161-2180	4.4	41

53	Statistical projection effects in a hydrodynamic pilot-wave system. <i>Nature Physics</i> , 2018 , 14, 315-319	16.2	39
52	Quantum mechanics writ large: Fig. 1.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 17455-17456	11.5	37
51	Electrically induced drop detachment and ejection. <i>Physics of Fluids</i> , 2016 , 28, 022101	4.4	37
50	Generating uniaxial vibration with an electrodynamic shaker and external air bearing. <i>Journal of Sound and Vibration</i> , 2015 , 334, 255-269	3.9	36
49	Pilot-wave hydrodynamics in a rotating frame: Exotic orbits. <i>Physics of Fluids</i> , 2014 , 26, 082101	4.4	35
48	A laboratory model of splash-form tektites. <i>Meteoritics and Planetary Science</i> , 2003 , 38, 1331-1340	2.8	34
47	Tunneling with a hydrodynamic pilot-wave model. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	34
46	Grabbing water. <i>Soft Matter</i> , 2010 , 6, 5705	3.6	32
45	Walking droplets interacting with single and double slits. <i>Journal of Fluid Mechanics</i> , 2018 , 835, 1136-1156	3.7	29
44	Fluid pipes. <i>Journal of Fluid Mechanics</i> , 2002 , 466, 285-304	3.7	27
43	Surface topography measurements of the bouncing droplet experiment. <i>Experiments in Fluids</i> , 2016 , 57, 1	2.5	26
42	Orbiting pairs of walking droplets: Dynamics and stability. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	26
41	Spin-up from rest in a stratified fluid: boundary flows. <i>Journal of Fluid Mechanics</i> , 2002 , 472, 51-82	3.7	25
40	Non-specular reflection of walking droplets. <i>Journal of Fluid Mechanics</i> , 2016 , 804,	3.7	25
39	Spontaneous oscillations of a sessile lens. <i>Journal of Fluid Mechanics</i> , 2007 , 583, 465-475	3.7	24
38	Particle concentration evolution and sedimentation-induced instabilities in a stably stratified environment. <i>Physics of Fluids</i> , 2005 , 17, 073302	4.4	24
37	Vortex generation by line plumes in a rotating stratified fluid. <i>Journal of Fluid Mechanics</i> , 1999 , 388, 289-313	3.7	24
36	Drop impact and capture on a thin flexible fiber. <i>Soft Matter</i> , 2016 , 12, 149-56	3.6	23

35	Thermal delay of drop coalescence. <i>Journal of Fluid Mechanics</i> , 2017 , 833,	3.7	23
34	Promenading pairs of walking droplets: Dynamics and stability. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	23
33	The onset of chaos in orbital pilot-wave dynamics. <i>Chaos</i> , 2016 , 26, 103107	3.3	23
32	Introduction to focus issue on hydrodynamic quantum analogs. <i>Chaos</i> , 2018 , 28, 096001	3.3	23
31	Hydrodynamic spin states. <i>Chaos</i> , 2018 , 28, 096106	3.3	23
30	The wave-induced added mass of walking droplets. <i>Journal of Fluid Mechanics</i> , 2014 , 755,	3.7	22
29	Crawling beneath the free surface: Water snail locomotion. <i>Physics of Fluids</i> , 2008 , 20, 082106	4.4	21
28	Walking droplets in a circular corral: Quantisation and chaos. <i>Chaos</i> , 2018 , 28, 096116	3.3	21
27	Simulations of pilot-wave dynamics in a simple harmonic potential. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	18
26	Beyond Six Feet: A Guideline to Limit Indoor Airborne Transmission of COVID-19		18
25	Dynamics, emergent statistics, and the mean-pilot-wave potential of walking droplets. <i>Chaos</i> , 2018 , 28, 096108	3.3	18
24	A hydrodynamic analog of Friedel oscillations. <i>Science Advances</i> , 2020 , 6, eaay9234	14.3	16
23	The stratified Boycott effect. <i>Journal of Fluid Mechanics</i> , 2005 , 529, 33-49	3.7	15
22	Bouncing phase variations in pilot-wave hydrodynamics and the stability of droplet pairs. <i>Journal of Fluid Mechanics</i> , 2019 , 871, 212-243	3.7	14
21	Hydrodynamic Quantum Analogs. <i>Reports on Progress in Physics</i> , 2020 ,	14.4	13
20	The cocktail boat. <i>Integrative and Comparative Biology</i> , 2014 , 54, 969-73	2.8	12
19	Spin lattices of walking droplets. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	12
18	Exploring orbital dynamics and trapping with a generalized pilot-wave framework. <i>Chaos</i> , 2018 , 28, 096115	3.5	11

17	The interaction of a walking droplet and a submerged pillar: From scattering to the logarithmic spiral. <i>Chaos</i> , 2018 , 28, 096105	3.3	11
16	Speed oscillations in classical pilot-wave dynamics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20190884	2.4	10
15	Predictability in a hydrodynamic pilot-wave system: Resolution of walker tunneling. <i>Physical Review E</i> , 2020 , 102, 013104	2.4	10
14	Emergent order in hydrodynamic spin lattices. <i>Nature</i> , 2021 , 596, 58-62	50.4	10
13	Biomimicry and the culinary arts. <i>Bioinspiration and Biomimetics</i> , 2013 , 8, 044003	2.6	9
12	Visualization of hydrodynamic pilot-wave phenomena. <i>Journal of Visualization</i> , 2017 , 20, 13-15	1.6	9
11	An experimental investigation of spin-up from rest of a stratified fluid. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2004 , 98, 277-296	1.4	9
10	Hydrodynamic quantum field theory: the free particle. <i>Comptes Rendus - Mecanique</i> , 2020 , 348, 555-571	0.3	8
9	Hydrodynamic Quantum Field Theory: The Onset of Particle Motion and the Form of the Pilot Wave. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	8
8	Free rings of bouncing droplets: stability and dynamics. <i>Journal of Fluid Mechanics</i> , 2020 , 903,	3.7	6
7	Flow visualization using tobacco mosaic virus. <i>Experiments in Fluids</i> , 2009 , 46, 477-484	2.5	5
6	Monitoring carbon dioxide to quantify the risk of indoor airborne transmission of COVID-19 2021 , 1,		5
5	Monitoring carbon dioxide to quantify the risk of indoor airborne transmission of COVID-19		5
4	An investigation of the link between lead-induced thermohaline convection and Arctic eddies. <i>Geophysical Research Letters</i> , 2000 , 27, 1179-1182	4.9	4
3	Shedding light on pilot-wave phenomena. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	4
2	Classical pilot-wave dynamics: The free particle. <i>Chaos</i> , 2021 , 31, 033136	3.3	3
1	Merger of a bubble and a soap film. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	2