

# William L Peirson

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

1,502  
citations

361413

20  
h-index

315739

38  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1218  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tangential stress beneath wind-driven air-water interfaces. <i>Journal of Fluid Mechanics</i> , 1998, 364, 115-145.	3.4	151
2	Wave breaking onset and strength for two-dimensional deep-water wave groups. <i>Journal of Fluid Mechanics</i> , 2007, 585, 93-115.	3.4	113
3	Investigation of the physical scaling of sea spray spume droplet production. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	93
4	Measurements of the time-varying free-surface profile across the swash zone obtained using an industrial LIDAR. <i>Coastal Engineering</i> , 2010, 57, 1059-1065.	4.0	82
5	Growth and dissipation of wind-forced, deep-water waves. <i>Journal of Fluid Mechanics</i> , 2013, 722, 5-50.	3.4	78
6	Hydrophobically-associating cationic polymers as micro-bubble surface modifiers in dissolved air flotation for cyanobacteria cell separation. <i>Water Research</i> , 2014, 61, 253-262.	11.3	73
7	On a unified breaking onset threshold for gravity waves in deep and intermediate depth water. <i>Journal of Fluid Mechanics</i> , 2018, 841, 463-488.	3.4	71
8	Linking Reduced Breaking Crest Speeds to Unsteady Nonlinear Water Wave Group Behavior. <i>Physical Review Letters</i> , 2014, 112, 114502.	7.8	70
9	Aqueous surface layer flows induced by microscale breaking wind waves. <i>Journal of Fluid Mechanics</i> , 2003, 479, 1-38.	3.4	51
10	Application of LiDAR technology for measurement of time-varying free-surface profiles in a laboratory wave flume. <i>Coastal Engineering</i> , 2012, 68, 1-5.	4.0	51
11	On the wind-induced growth of slow water waves of finite steepness. <i>Journal of Fluid Mechanics</i> , 2008, 608, 243-274.	3.4	50
12	The role of algal organic matter in the separation of algae and cyanobacteria using the novel "Posi" Dissolved air flotation process. <i>Water Research</i> , 2018, 130, 20-30.	11.3	49
13	Measurement of surface velocities and shears at a wavy air-water interface using particle image velocimetry. <i>Experiments in Fluids</i> , 1997, 23, 427-437.	2.4	44
14	Turbulent Flow over Steep Steady and Unsteady Waves under Strong Wind Forcing. <i>Journal of Physical Oceanography</i> , 2018, 48, 3-27.	1.7	42
15	Managing Adaptation of Urban Water Systems in a Changing Climate. <i>Water Resources Management</i> , 2012, 26, 1953-1981.	3.9	41
16	On the threshold for wave breaking of two-dimensional deep water wave groups in the absence and presence of wind. <i>Journal of Fluid Mechanics</i> , 2017, 811, 642-658.	3.4	37
17	Municipal gravity sewers: An unrecognised source of nitrous oxide. <i>Science of the Total Environment</i> , 2014, 468-469, 211-218.	8.0	36
18	Water wave attenuation due to opposing wind. <i>Journal of Fluid Mechanics</i> , 2003, 487, 345-365.	3.4	29

#	ARTICLE	IF	CITATIONS
19	Opportunistic management of estuaries under climate change: A new adaptive decision-making framework and its practical application. <i>Journal of Environmental Management</i> , 2015, 163, 214-223.	7.8	22
20	Stress above Wind-Plus-Paddle Waves: Modeling of a Laboratory Experiment. <i>Journal of Physical Oceanography</i> , 2007, 37, 2824-2837.	1.7	21
21	On the microphysical behaviour of wind-forced water surfaces and consequent re-aeration. <i>Journal of Fluid Mechanics</i> , 2014, 743, 399-447.	3.4	21
22	Experimental investigation of global backward erosion and suffusion of soils in embankment dams. <i>Canadian Geotechnical Journal</i> , 2019, 56, 789-807.	2.8	19
23	Dissolved methane in the influent of three Australian wastewater treatment plants fed by gravity sewers. <i>Science of the Total Environment</i> , 2017, 599-600, 85-93.	8.0	18
24	Evaporation mitigation using floating modular devices. <i>Journal of Hydrology</i> , 2015, 530, 742-750.	5.4	17
25	Design of Rock Protection to Prevent Erosion by Water Flows Down Steep Slopes. <i>Journal of Hydraulic Engineering</i> , 2006, 132, 1110-1114.	1.5	16
26	Placed Rock as Protection against Erosion by Flow down Steep Slopes. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 1370-1375.	1.5	16
27	Analyzing the footprints of near-surface aqueous turbulence: An image processing-based approach. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1272-1286.	2.6	16
28	Measurement of gas transfer across wind-forced wavy air-water interfaces using laser-induced fluorescence. <i>Experiments in Fluids</i> , 2008, 44, 249-259.	2.4	15
29	Rain-induced attenuation of deep-water waves. <i>Journal of Fluid Mechanics</i> , 2013, 724, 5-35.	3.4	15
30	Nitrous oxide monitoring for nitrifying activated sludge aeration control: A simulation study. <i>Biotechnology and Bioengineering</i> , 2008, 101, 109-118.	3.3	14
31	Turbulence beneath finite amplitude water waves. <i>Experiments in Fluids</i> , 2012, 52, 1319-1330.	2.4	13
32	On the influence of wave breaking on the height limits of two-dimensional wave groups propagating in uniform intermediate depth water. <i>Coastal Engineering</i> , 2018, 133, 159-165.	4.0	13
33	Effect of inflow conditions on the free-surface properties of hydraulic jumps. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2021, 59, 1004-1017.	1.7	13
34	A physical model study of culvert blockage by large urban debris. <i>Australian Journal of Water Resources</i> , 2015, 19, 127-133.	2.7	12
35	Laboratory testing of an innovative tube fishway concept. <i>Journal of Ecohydraulics</i> , 2020, 5, 84-93.	3.1	10
36	Modeling the Erosion and Swelling of the Sides of Transverse Cracks in Embankment Dams. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	3.0	9

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37	Impacts of Climate Change and Non-Point-Source Pollution on Water Quality and Algal Blooms in the Shoalhaven River Estuary, NSW, Australia. <i>Water (Switzerland)</i> , 2022, 14, 1914.	2.7	9
38	Piping fish over dams. <i>Journal of Hydro-Environment Research</i> , 2021, 39, 71-80.	2.2	7
39	Optimising dissolved air flotation/filtration treatment of algae-laden lagoon effluent using surface charge: a Bolivar treatment plant case study. <i>Water Science and Technology</i> , 2012, 66, 1684-1690.	2.5	6
40	Marine nitrous oxide emissions: An unknown liability for the international water sector. <i>Environmental Science and Policy</i> , 2013, 33, 209-221.	4.9	5
41	Evaporation mitigation by floating modular devices. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 35, 012022.	0.3	5
42	Defining the Enhancement of Air-Water Interfacial Oxygen Exchange Rate due to Wind-Forced Microscale Waves. <i>Environmental Science and Engineering</i> , 2007, , 119-131.	0.2	5
43	Attracting juvenile fish into Tube Fishways – roles of transfer chamber diameter and flow velocity. <i>Ecological Engineering</i> , 2022, 176, 106544.	3.6	5
44	Rock Mass Erodibility. <i>Journal of Hydraulic Engineering</i> , 2017, 143, 06016031.	1.5	4
45	Climate change adaptation of urban water management systems in the wet/dry tropics. <i>Australian Journal of Water Resources</i> , 2013, 17, 180-192.	2.7	3
46	The influence of geological conditions on erosion of unlined spillways in rock. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2018, 51, 219-228.	1.4	3
47	GROWTH RESPONSE OF WAVES TO THE WIND STRESS. , 2005, , .		2
48	ON THE INFLUENCE OF WAVE GROUPS ON SHOALING AND BREAKING WAVES. , 2009, , .		2
49	Impacts on fish transported in tube fishways. <i>Journal of Hydro-Environment Research</i> , 2022, 42, 1-11.	2.2	2
50	Development of thermal image velocimetry techniques to measure the water surface velocity. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 35, 012021.	0.3	1
51	On the hydraulics of flow in cracks in embankment dam cores. <i>European Journal of Environmental and Civil Engineering</i> , 2023, 27, 1367-1382.	2.1	1
52	Reaeration in Supercritical Open Channel Flows: An Experimental Study. <i>Journal of Hydraulic Engineering</i> , 2022, 148, .	1.5	1
53	On the Surface Kinematics of Microscale Breaking Wind Waves. <i>Geophysical Monograph Series</i> , 2013, , 17-22.	0.1	0
54	Recent Progress on Understanding and Modelling Ocean Wave Breaking. , 2007, , 16-22.		0

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55	Physical modelling to minimise air entrainment over an industrial weir and into a discharge pipeline. , 2014, , .		0
56	Evaluating the performance of conventional DAF and PosiDAF processes for cyanobacteria separation at a pilot plant scale. H2Open Journal, 0, , .	1.7	0