

# William L Peirson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1809031/publications.pdf>

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	On the hydraulics of flow in cracks in embankment dam cores. European Journal of Environmental and Civil Engineering, 2023, 27, 1367-1382.	2.1	1
2	Attracting juvenile fish into Tube Fishways – roles of transfer chamber diameter and flow velocity. Ecological Engineering, 2022, 176, 106544.	3.6	5
3	Impacts on fish transported in tube fishways. Journal of Hydro-Environment Research, 2022, 42, 1-11.	2.2	2
4	Impacts of Climate Change and Non-Point-Source Pollution on Water Quality and Algal Blooms in the Shoalhaven River Estuary, NSW, Australia. Water (Switzerland), 2022, 14, 1914.	2.7	9
5	Reaeration in Supercritical Open Channel Flows: An Experimental Study. Journal of Hydraulic Engineering, 2022, 148, .	1.5	1
6	Effect of inflow conditions on the free-surface properties of hydraulic jumps. Journal of Hydraulic Research/De Recherches Hydrauliques, 2021, 59, 1004-1017.	1.7	13
7	Piping fish over dams. Journal of Hydro-Environment Research, 2021, 39, 71-80.	2.2	7
8	Laboratory testing of an innovative tube fishway concept. Journal of Ecohydraulics, 2020, 5, 84-93.	3.1	10
9	Experimental investigation of global backward erosion and suffusion of soils in embankment dams. Canadian Geotechnical Journal, 2019, 56, 789-807.	2.8	19
10	Modeling the Erosion and Swelling of the Sides of Transverse Cracks in Embankment Dams. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	9
11	On a unified breaking onset threshold for gravity waves in deep and intermediate depth water. Journal of Fluid Mechanics, 2018, 841, 463-488.	3.4	71
12	On the influence of wave breaking on the height limits of two-dimensional wave groups propagating in uniform intermediate depth water. Coastal Engineering, 2018, 133, 159-165.	4.0	13
13	Turbulent Flow over Steep Steady and Unsteady Waves under Strong Wind Forcing. Journal of Physical Oceanography, 2018, 48, 3-27.	1.7	42
14	The role of algal organic matter in the separation of algae and cyanobacteria using the novel “Posi” Dissolved air flotation process. Water Research, 2018, 130, 20-30.	11.3	49
15	The influence of geological conditions on erosion of unlined spillways in rock. Quarterly Journal of Engineering Geology and Hydrogeology, 2018, 51, 219-228.	1.4	3
16	Dissolved methane in the influent of three Australian wastewater treatment plants fed by gravity sewers. Science of the Total Environment, 2017, 599-600, 85-93.	8.0	18
17	Rock Mass Erodibility. Journal of Hydraulic Engineering, 2017, 143, 06016031.	1.5	4
18	On the threshold for wave breaking of two-dimensional deep water wave groups in the absence and presence of wind. Journal of Fluid Mechanics, 2017, 811, 642-658.	3.4	37

#	ARTICLE	IF	CITATIONS
19	Evaporation mitigation by floating modular devices. IOP Conference Series: Earth and Environmental Science, 2016, 35, 012022.	0.3	5
20	Development of thermal image velocimetry techniques to measure the water surface velocity. IOP Conference Series: Earth and Environmental Science, 2016, 35, 012021.	0.3	1
21	Evaporation mitigation using floating modular devices. Journal of Hydrology, 2015, 530, 742-750.	5.4	17
22	A physical model study of culvert blockage by large urban debris. Australian Journal of Water Resources, 2015, 19, 127-133.	2.7	12
23	Opportunistic management of estuaries under climate change: A new adaptive decision-making framework and its practical application. Journal of Environmental Management, 2015, 163, 214-223.	7.8	22
24	Linking Reduced Breaking Crest Speeds to Unsteady Nonlinear Water Wave Group Behavior. Physical Review Letters, 2014, 112, 114502.	7.8	70
25	Hydrophobically-associating cationic polymers as micro-bubble surface modifiers in dissolved air flotation for cyanobacteria cell separation. Water Research, 2014, 61, 253-262.	11.3	73
26	Municipal gravity sewers: An unrecognised source of nitrous oxide. Science of the Total Environment, 2014, 468-469, 211-218.	8.0	36
27	On the microphysical behaviour of wind-forced water surfaces and consequent re-aeration. Journal of Fluid Mechanics, 2014, 743, 399-447.	3.4	21
28	Physical modelling to minimise air entrainment over an industrial weir and into a discharge pipeline. , 2014, , .		0
29	On the Surface Kinematics of Microscale Breaking Wind Waves. Geophysical Monograph Series, 2013, , 17-22.	0.1	0
30	Marine nitrous oxide emissions: An unknown liability for the international water sector. Environmental Science and Policy, 2013, 33, 209-221.	4.9	5
31	Rain-induced attenuation of deep-water waves. Journal of Fluid Mechanics, 2013, 724, 5-35.	3.4	15
32	Analyzing the footprints of near-surface aqueous turbulence: An image processing-based approach. Journal of Geophysical Research: Oceans, 2013, 118, 1272-1286.	2.6	16
33	Climate change adaptation of urban water management systems in the wet/dry tropics. Australian Journal of Water Resources, 2013, 17, 180-192.	2.7	3
34	Growth and dissipation of wind-forced, deep-water waves. Journal of Fluid Mechanics, 2013, 722, 5-50.	3.4	78
35	Optimising dissolved air flotation/filtration treatment of algae-laden lagoon effluent using surface charge: a Bolivar treatment plant case study. Water Science and Technology, 2012, 66, 1684-1690.	2.5	6
36	Managing Adaptation of Urban Water Systems in a Changing Climate. Water Resources Management, 2012, 26, 1953-1981.	3.9	41

#	ARTICLE	IF	CITATIONS
37	Turbulence beneath finite amplitude water waves. <i>Experiments in Fluids</i> , 2012, 52, 1319-1330.	2.4	13
38	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
39	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
40	Investigation of the physical scaling of sea spray spume droplet production. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	93
41	ON THE INFLUENCE OF WAVE GROUPS ON SHOALING AND BREAKING WAVES. , 2009, , .		2
42	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
43	Nitrous oxide monitoring for nitrifying activated sludge aeration control: A simulation study. <i>Biotechnology and Bioengineering</i> , 2008, 101, 109-118.	3.3	14
44	Placed Rock as Protection against Erosion by Flow down Steep Slopes. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 1370-1375.	1.5	16
45	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
46	Stress above Wind-Plus-Paddle Waves: Modeling of a Laboratory Experiment. <i>Journal of Physical Oceanography</i> , 2007, 37, 2824-2837.	1.7	21
47	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
48	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
49	Recent Progress on Understanding and Modelling Ocean Wave Breaking. , 2007, , 16-22.		0
50	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
51	GROWTH RESPONSE OF WAVES TO THE WIND STRESS. , 2005, , .		2
52	Water wave attenuation due to opposing wind. <i>Journal of Fluid Mechanics</i> , 2003, 487, 345-365.	3.4	29
53	Aqueous surface layer flows induced by microscale breaking wind waves. <i>Journal of Fluid Mechanics</i> , 2003, 479, 1-38.	3.4	51
54	Tangential stress beneath wind-driven air-water interfaces. <i>Journal of Fluid Mechanics</i> , 1998, 364, 115-145.	3.4	151

#	ARTICLE	IF	CITATIONS
55	Measurement of surface velocities and shears at a wavy air-water interface using particle image velocimetry. Experiments in Fluids, 1997, 23, 427-437.	2.4	44
56	Evaluating the performance of conventional DAF and PosiDAF processes for cyanobacteria separation at a pilot plant scale. H2Open Journal, 0, , .	1.7	0