Peter Nielsen

List of Publications by Year in descending order

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Version: 2024-02-01

72 papers	2,306 citations	236925 25 h-index	206112 48 g-index
74 all docs	74 docs citations	74 times ranked	1432 citing authors

#	Article	IF	Citations
1	Tidal dynamics of the watertable in beaches. Water Resources Research, 1990, 26, 2127-2134.	4.2	324
2	Shear stress and sediment transport calculations for swash zone modelling. Coastal Engineering, 2002, 45, 53-60.	4.0	142
3	Sheet flow sediment transport under waves with acceleration skewness and boundary layer streaming. Coastal Engineering, 2006, 53, 749-758.	4.0	128
4	Suspended sediment concentrations under waves. Coastal Engineering, 1986, 10, 23-31.	4.0	127
5	Rapid water table fluctuations within the beach face: Implications for swash zone sediment mobility?. Coastal Engineering, 1997, 32, 45-59.	4.0	109
6	Shear stress and sediment transport calculations for sheet flow under waves. Coastal Engineering, 2003, 47, 347-354.	4.0	96
7	Atoll lagoon flushing forced by waves. Coastal Engineering, 2006, 53, 691-704.	4.0	89
8	Infiltration effects on sediment mobility under waves. Coastal Engineering, 2001, 42, 105-114.	4.0	79
9	Turbulent diffusion of momentum and suspended particles: A finite-mixing-length theory. Physics of Fluids, 2004, 16, 2342-2348.	4.0	75
10	Groundwater waves in aquifers of intermediate depths. Advances in Water Resources, 1997, 20, 37-43.	3.8	74
11	Experimental observations of watertable waves in an unconfined aquifer with a sloping boundary. Advances in Water Resources, 2004, 27, 991-1004.	3.8	70
12	Flow deflection over a foredune. Geomorphology, 2015, 230, 64-74.	2.6	69
13	On the motion of suspended sand particles. Journal of Geophysical Research, 1984, 89, 616-626.	3.3	68
14	Three simple models of wave sediment transport. Coastal Engineering, 1988, 12, 43-62.	4.0	65
15	Watertable dynamics under capillary fringes: experiments and modelling. Advances in Water Resources, 2000, 23, 503-515.	3.8	64
16	Laboratory investigation of the Bruun Rule and beach response to sea level rise. Coastal Engineering, 2018, 136, 183-202.	4.0	53
17	Wave setup: A field study. Journal of Geophysical Research, 1988, 93, 15643-15652.	3.3	49
18	Water table waves in an unconfined aquifer: Experiments and modeling. Water Resources Research, 2003, 39, .	4.2	47

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19	Tropical cyclone wind field asymmetryâ€"Development and evaluation of a new parametric model. Journal of Geophysical Research: Oceans, 2017, 122, 458-469.	2.6	43
20	Analysis of Natural Waves by Local Approximations. Journal of Waterway, Port, Coastal and Ocean Engineering, 1989, 115, 384-396.	1.2	34
21	Influence of capillarity on a simple harmonic oscillating water table: Sand column experiments and modeling. Water Resources Research, 2005, 41, .	4.2	34
22	Swash-aquifer interaction in the vicinity of the water table exit point on a sandy beach. Journal of Geophysical Research, 2006, 111, .	3.3	33
23	Hindered settling of sand grains. Sedimentology, 2005, 52, 1425-1432.	3.1	31
24	Direct measurements of wind stress over the surf zone. Journal of Geophysical Research: Oceans, 2014, 119, 2949-2973.	2.6	30
25	Numerical solutions of the sediment conservation law; a review and improved formulation for coastal morphological modelling. Coastal Engineering, 2006, 53, 557-571.	4.0	25
26	The effects of oscillation period on groundwater wave dispersion in a sandy unconfined aquifer: Sand flume experiments and modelling. Journal of Hydrology, 2016, 533, 412-420.	5.4	22
27	Vertical fluxes of sediment in oscillatory sheet flow. Coastal Engineering, 2002, 45, 61-68.	4.0	21
28	Periodic seepage face formation and water pressure distribution along a vertical boundary of an aquifer. Journal of Hydrology, 2015, 523, 24-33.	5.4	20
29	On the structure of oscillatory boundary layers. Coastal Engineering, 1985, 9, 261-276.	4.0	19
30	Ð˜-Shaped surf beat understood in terms of transient forced long waves. Coastal Engineering, 2010, 57, 71-73.	4.0	18
31	Discussion of â€œEffect of Seepage-Induced Nonhydrostatic Pressure Distribution on Bed-Load Transport and Bed Morphodynamicsâ€•by Simona Francalanci, Gary Parker, and Luca Solari. Journal of Hydraulic Engineering, 2010, 136, 77-79.	1.5	18
32	Multiscale Superposition and Decomposition of Fieldâ€Measured Suspended Sediment Concentrations: Implications for Extending 1DV Models to Coastal Oceans With Advected Fine Sediments. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016474.	2.6	18
33	Manometer tubes for coastal hydrodynamics investigations. Coastal Engineering, 1998, 35, 73-84.	4.0	17
34	Application of a coupled ground-surface water flow model to simulate periodic groundwater flow influenced by a sloping boundary, capillarity and vertical flows. Environmental Modelling and Software, 2006, 21, 770-778.	4.5	17
35	Observations of wave pump efficiency. Coastal Engineering, 2008, 55, 69-72.	4.0	17
36	Behavior of a shallow water table under periodic flow conditions. Water Resources Research, 2009, 45, .	4.2	13

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37	Derivation of settling velocity, eddy diffusivity and pick-up rate from field-measured suspended sediment concentration profiles in the horizontally uniform but vertically unsteady scenario. Applied Ocean Research, 2021, 107, 102485.	4.1	13
38	Quantification of tidal watertable overheight in a coastal unconfined aquifer. Journal of Engineering Mathematics, 2007, 56, 437-444.	1.2	12
39	1DV structure of turbulent wave boundary layers. Coastal Engineering, 2016, 112, 1-8.	4.0	11
40	Suspended Sediment Concentration Profiles. Applied Mechanics Reviews, 1995, 48, 564-569.	10.1	10
41	Transient dynamics of storm surges and other forced long waves. Coastal Engineering, 2008, 55, 499-505.	4.0	10
42	How storm size matters for surge height. Coastal Engineering, 2009, 56, 1002-1004.	4.0	10
43	Surf Zone States and Energy Dissipation Regimes â€" A Similarity Model. Coastal Engineering Journal, 2013, 55, 1350003-1-1350003-18.	1.9	10
44	Influence of hysteresis on groundwater wave dynamics in an unconfined aquifer with a sloping boundary. Journal of Hydrology, 2015, 531, 1114-1121.	5.4	10
45	Wave Setup in River Entrances. , 2001, , 3432.		9
46	Two-dimensional vertical moisture-pressure dynamics above groundwater waves: Sand flume experiments and modelling. Journal of Hydrology, 2017, 544, 467-478.	5.4	8
47	Bar response to tides under regular waves. Coastal Engineering, 2015, 106, 1-3.	4.0	4
48	Non-linear wave equations for free surface flow over a bump. Coastal Engineering Journal, 2020, 62, 159-169.	1.9	4
49	Measurements of bed shear stresses near the tip of dam-break waves on a rough bed. Experiments in Fluids, 2021, 62, 1.	2.4	4
50	Comment on â€œBeach water table fluctuations due to wave run-up: Capillarity effectsâ€•by L. Li et al.. Water Resources Research, 1999, 35, 1323-1324.	4.2	3
51	Assessment of dispersive pressure as a beach placer mechanism. Sedimentology, 2010, 57, 408-417.	3.1	3
52	MODELING OF A RIP CURRENT SYSTEM ON MORETON ISLAND, AUSTRALIA. , 2003, , .		3
53	Discussion of â€œ Fall Velocity of Particles in Oscillating Flow â€•by Paul A. Hwang (March, 1985). Journal of Hydraulic Engineering, 1987, 113, 935-938.	1.5	2
54	Reply to comment by A. G. J. Hilberts and P. A. Troch on â€œInfluence of capillarity on a simple harmonic oscillating water table: Sand column experiments and modelingâ€• Water Resources Research, 2006, 42, .	4.2	2

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55	UNSTEADY FLOW EFFECTS ON BED SHEAR STRESS AND SHEET FLOW SEDIMENT TRANSPORT. , 2009, , .		2
56	Reply [to â€œComment on â€˜On the motion of suspended sand particlesâ€™ by Peter Nielsenâ€]. Journal of Geophysical Research, 1985, 90, 3255-3256.	3.3	1
57	A simple model for current velocity profiles in combined wave-current flows, by Z.-J. You: comments. Coastal Engineering, 1995, 26, 99-100.	4.0	1
58	SWASH ZONE AND NEAR-SHORE WATERTABLE DYNAMICS. , 2003, , .		1
59	SHEETFLOW SEDIMENT TRANSPORT MODELING: INCLUDING BOUNDARY LAYER STREAMING. , 2007, , .		1
60	THE INFLUENCE OF OFFSHORE STORM WAVES ON GROUNDWATER DYNAMICS AND SALINITY IN A SANDY BEACH. , 2005, , .		1
61	GENERATION OF EXTREME WAVE CONDITIONS FROM AN ACCELERATING TROPICAL CYCLONE. , 2007, , .		0
62	Comparison of Two Severe Storms in Terms of Wave Characteristics Based on Recorded Field Data. , 2011, , .		0
63	Transient wave behaviour over an underwater sliding hump from experiments and analytical and numerical modelling. Experiments in Fluids, 2011, 51, 1657-1671.	2.4	0
64	Waveâ€“current interaction at an angle 2: theory By PRADEEP C. FERNANDO, PENGZHI LIN and JUNKE GUO, Journal of Hydraulic Research, Vol. 49, No. 4 (2011), pp. 437â€“449. Journal of Hydraulic Research/De Recherches Hydrauliques, 2012, 50, 253-254.	1.7	0
65	OCEAN DRIVEN FLOODING OF A COASTAL LAKE. Coastal Engineering Proceedings, 2015, 1, 47.	0.1	0
66	Basic Coastal Sediment Transport Mechanisms. , 2015, , 85-152.		0
67	MORPHOLOGICAL MODEL FOR A FIXED SAND BYPASS SYSTEM. , 2003, , .		0
68	SHEET FLOW SEDIMENT TRANSPORT MODELLING USING CONVOLUTION INTEGRALS. , 2007, , .		0
69	Extreme Coastal Waves, Ocean Surges and Wave Runup. Coastal Research Library, 2013, , 677-733.	0.4	0
70	IMPROVEMENT OF FULLY-NONLINEAR AND STRONGLY-DISPERSIVE WAVE MODEL AND APPLICATION TO A WAVE FIELD OVER A BUMP. Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering), 2018, 74, I_1-I_6.	0.4	0
71	FIELD INVESTIGATION OF TWO RETROGRESSIVE BREACH FAILURES AT AMITY POINT. , 2019, , .		0
72	Towards Modelling Coastal Sediment Transport. , 1989, , .		0