Nicholas Dodd

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Numerical Model of Wave Run-Up, Overtopping, and Regeneration. Journal of Waterway, Port, Coastal and Ocean Engineering, 1998, 124, 73-81.	1.2	117
2	Nonlinear Shallow Water Equation Modeling for Coastal Engineering. Journal of Waterway, Port, Coastal and Ocean Engineering, 2008, 134, 104-120.	1.2	81
3	Morphodynamic modelling of rip channel growth. Coastal Engineering, 2002, 45, 199-221.	4.0	73
4	Experimental study of bore-driven swash hydrodynamics on impermeable rough slopes. Coastal Engineering, 2012, 60, 149-166.	4.0	69
5	Advances in numerical modelling of swash zone dynamics. Coastal Engineering, 2016, 115, 26-41.	4.0	69
6	Understanding coastal morphodynamic patterns from depthâ€averaged sediment concentration. Reviews of Geophysics, 2015, 53, 362-410.	23.0	59
7	Modelling the formation and the longâ€ŧerm behavior of rip channel systems from the deformation of a longshore bar. Journal of Geophysical Research, 2008, 113, .	3.3	56
8	On beach cusp formation. Journal of Fluid Mechanics, 2008, 597, 145-169.	3.4	54
9	Rhythmic surf zone bars and morphodynamic self-organization. Coastal Engineering, 2008, 55, 622-641.	4.0	53
10	(Un)predictability in rip channel systems. Geophysical Research Letters, 2007, 34, .	4.0	43
11	Non linear shallow water modelling of bore-driven swash: Description of the bottom boundary layer. Coastal Engineering, 2011, 58, 463-477.	4.0	43
12	Numerical approaches for 1D morphodynamic modelling. Coastal Engineering, 2005, 52, 691-707.	4.0	36
13	Mechanisms controlling crescentic bar amplitude. Journal of Geophysical Research, 2010, 115, .	3.3	35
14	Beach-face evolution in the swash zone. Journal of Fluid Mechanics, 2010, 661, 316-340.	3.4	33
15	Modeling Flow In and Above a Porous Beach. Journal of Waterway, Port, Coastal and Ocean Engineering, 2004, 130, 223-233.	1.2	32
16	The morphodynamics of a swash event on an erodible beach. Journal of Fluid Mechanics, 2015, 762, 110-140.	3.4	32
17	Shoreline motion in nonlinear shallow water coastal models. Coastal Engineering, 2009, 56, 495-505.	4.0	31
18	Growth and energetics of shear waves in the nearshore. Journal of Geophysical Research, 1990, 95,	33	30

16075-16083.

NICHOLAS DODD

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19	An efficient and flexible solver for the simulation of the morphodynamics of fast evolving flows on coarse sediment beaches. International Journal for Numerical Methods in Fluids, 2012, 69, 859-877.	1.6	29
20	On the destabilization of a longshore current on a plane beach: Bottom shear stress, critical conditions, and onset of instability. Journal of Geophysical Research, 1994, 99, 811.	3.3	26
21	Net beach change in the swash zone: A numerical investigation. Advances in Water Resources, 2013, 53, 12-22.	3.8	26
22	Intra-swash hydrodynamics and sediment flux for dambreak swash on coarse-grained beaches. Coastal Engineering, 2016, 112, 113-130.	4.0	25
23	Floating grid characteristics method for unsteady flow over a mobile bed. Computers and Fluids, 2009, 38, 899-909.	2.5	23
24	Experimental Analysis of Wave Overtopping: A New Small Scale Laboratory Dataset for the Assessment of Uncertainty for Smooth Sloped and Vertical Coastal Structures. Journal of Marine Science and Engineering, 2019, 7, 217.	2.6	22
25	Numerical Modeling of Flow and Bed Evolution of Bichromatic Wave Groups on an Intermediate Beach Using Nonhydrostatic XBeach. Journal of Waterway, Port, Coastal and Ocean Engineering, 2020, 146, .	1.2	18
26	Morphodynamical modelling of field-scale swash events. Coastal Engineering, 2016, 115, 42-57.	4.0	16
27	Shear instabilities of wave-driven alongshore currents. Reviews of Geophysics, 2000, 38, 437-463.	23.0	15
28	Physics of nearshore bed pattern formation under regular or random waves. Journal of Geophysical Research, 2006, 111, .	3.3	15
29	Development of crescentic bars for a periodically perturbed initial bathymetry. Journal of Geophysical Research, 2011, 116, .	3.3	15
30	Impact of a uniform bore on an erodible beach. Coastal Engineering, 2012, 60, 326-333.	4.0	15
31	A field test of a linear stability model for crescentic bars. Coastal Engineering, 2010, 57, 41-51.	4.0	13
32	Linear evolution of a shoreface nourishment. Coastal Engineering, 2007, 54, 417-431.	4.0	11
33	On the role of shoreline boundary conditions in wave overtopping modelling with non-linear shallow water equations. Coastal Engineering, 2009, 56, 1061-1067.	4.0	11
34	Numerical modelling of the flow and bed evolution of a single bore-driven swash event on a coarse sand beach. Coastal Engineering, 2018, 142, 62-76.	4.0	11
35	Beach cusps and inner surf zone processes: growth or destruction? A case study of Trafalgar Beach (C¡diz, Spain). Scientia Marina, 2010, 74, 539-553.	0.6	10
36	Numerical modelling of intra-wave sediment transport on sandy beaches using a non-hydrostatic, wave-resolving model. Ocean Dynamics, 2021, 71, 1-20.	2.2	9

NICHOLAS DODD

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37	Use of numerical models to study land-based sedimentation and subsequent nearshore morphological evolution. Coastal Engineering, 2008, 55, 601-621.	4.0	8
38	A note on spatial modes in longshore current shear instabilities. Journal of Geophysical Research, 1996, 101, 22715-22726.	3.3	7
39	Surface-groundwater flow numerical model for barrier beach with exfiltration incorporated bottom boundary layer model. Coastal Engineering, 2019, 146, 47-64.	4.0	7
40	Slowâ€ŧime modulation of finiteâ€depth nonlinear water waves: Relation to longshore current oscillations. Journal of Geophysical Research, 1991, 96, 7105-7113.	3.3	5
41	Absorbing–generating seaward boundary conditions for fully-coupled hydro-morphodynamical solvers. Coastal Engineering, 2015, 99, 96-108.	4.0	5
42	A subcritical instability of wave-driven alongshore currents. Journal of Geophysical Research, 2004, 109, .	3.3	4
43	Swash zone morphodynamic modelling including sediment entrained by bore-generated turbulence. Advances in Water Resources, 2020, 146, 103756.	3.8	4
44	Stabilizing effect of random waves on rip currents. Journal of Geophysical Research, 2009, 114, .	3.3	3
45	Riemann solution for a class of morphodynamic shallow water dam-break problems. Journal of Fluid Mechanics, 2018, 835, 1022-1047.	3.4	3
46	Potential regulatory approaches on the environmental impacts of photovoltaics: Expected improvements and impacts on technological innovation. Progress in Photovoltaics: Research and Applications, 2021, 29, 83-97.	8.1	3
47	Reflective Properties of Parabolic Approximations in Shallow Water Wave Propagation. SIAM Journal on Applied Mathematics, 1991, 51, 635-657.	1.8	2
48	The Uncertainty in the Prediction of the Distribution of Individual Wave Overtopping Volumes Using a Nonlinear Shallow Water Equation Solver. Journal of Coastal Research, 2016, 320, 946-953.	0.3	2
49	Coastal morphodynamical modelling in nonlinear shallow water framework using a coordinate transformation method. Advances in Water Resources, 2017, 107, 326-335.	3.8	2
50	$<\!b>91.<\!/b>$ THE ROLE OF THE DEPTH-AVERAGED CONCENTRATION IN COASTAL MORPHODYNAMICS. , 2009, , .		2
51	A logarithmic bottom boundary layer model for the unsteady and non-uniform swash flow. Coastal Engineering, 2022, 172, 104048.	4.0	2
52	Quasi-exact solution of the Riemann problem for generalised dam-break over a mobile initially flat bed. Journal of Engineering Mathematics, 2019, 115, 99-119.	1.2	1
53	Evolution of Beach Cusps. , 2006, , .		1
54	Efficient higher-order finite-difference schemes for parabolic models. Coastal Engineering, 1996, 28, 57-92.	4.0	0

#	Article	IF	CITATIONS
55	A 1D Roe decomposition of a system of equations governing wave height transformation. International Journal for Numerical Methods in Fluids, 2012, 69, 1271-1282.	1.6	0
56	On the Application of Mega-Nourishment in the UK. , 2018, , .		0
57	137. FORMATION AND LONG-TERM EVOLUTION OF BEACH CUSPS WITH TRACKING PARTICLE MOVEMENT. , 2009, , .		0

NICHOLAS DODD