

Nathaniel G Plant

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

3,420
citations

117571

34
h-index

149623

56
g-index

103
all docs

103
docs citations

103
times ranked

2263
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicted Sea-Level Rise-Driven Biogeomorphological Changes on Fire Island, New York: Implications for People and Plovers. <i>Earth's Future</i> , 2022, 10, .	2.4	3
2	Probabilistic patterns of inundation and biogeomorphic changes due to sea-level rise along the northeastern U.S. Atlantic coast. <i>Landscape Ecology</i> , 2021, 36, 223-241.	1.9	4
3	Piping plovers demonstrate regional differences in nesting habitat selection patterns along the U.S. Atlantic coast. <i>Ecosphere</i> , 2021, 12, e03418.	1.0	5
4	Satellite-Derived Barrier Response and Recovery Following Natural and Anthropogenic Perturbations, Northern Chandeleur Islands, Louisiana. <i>Remote Sensing</i> , 2021, 13, 3779.	1.8	4
5	The Roles of Storminess and Sea Level Rise in Decadal Barrier Island Evolution. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089370.	1.5	28
6	Development and Application of an Empirical Dune Growth Model for Evaluating Barrier Island Recovery from Storms. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 977.	1.2	5
7	Blind testing of shoreline evolution models. <i>Scientific Reports</i> , 2020, 10, 2137.	1.6	112
8	A pragmatic approach for comparing species distribution models to increasing confidence in managing piping plover habitat. <i>Conservation Science and Practice</i> , 2020, 2, e150.	0.9	2
9	Using a Bayesian network to understand the importance of coastal storms and undeveloped landscapes for the creation and maintenance of early successional habitat. <i>PLoS ONE</i> , 2019, 14, e0209986.	1.1	11
10	Combining Numerical and Statistical Models to Predict Storm-Induced Dune Erosion. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 1817-1834.	1.0	17
11	Predicting surf zone injuries along the Delaware coast using a Bayesian network. <i>Natural Hazards</i> , 2019, 98, 379-401.	1.6	4
12	Relationships between regional coastal land cover distributions and elevation reveal data uncertainty in a sea-level rise impacts model. <i>Earth Surface Dynamics</i> , 2019, 7, 429-438.	1.0	4
13	A review of machine learning applications to coastal sediment transport and morphodynamics. <i>Earth-Science Reviews</i> , 2019, 194, 97-108.	4.0	97
14	Rapid, Remote Assessment of Hurricane Matthew Impacts Using Four-Dimensional Structure-from-Motion Photogrammetry. <i>Journal of Coastal Research</i> , 2018, 34, 1303.	0.1	14
15	Field Observations of Alongshore Runup Variability Under Dissipative Conditions in the Presence of a Shoreline Sandwave. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 6800-6817.	1.0	10
16	A framework for modeling scenario-based barrier island storm impacts. <i>Coastal Engineering</i> , 2018, 138, 98-112.	1.7	13
17	MergeBathy (2015). <i>SoftwareX</i> , 2018, 7, 180-183.	1.2	0
18	Dynamic modeling of barrier island response to hurricane storm surge under future sea level rise. <i>Climatic Change</i> , 2018, 149, 413-425.	1.7	27

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19	The influence of bed friction variability due to land cover on storm-driven barrier island morphodynamics. <i>Coastal Engineering</i> , 2018, 132, 82-94.	1.7	44
20	Smartphone technologies and Bayesian networks to assess shorebird habitat selection. <i>Wildlife Society Bulletin</i> , 2017, 41, 666-677.	1.6	10
21	Probabilistic assessment of erosion and flooding risk in the northern Gulf of Mexico. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 3029-3043.	1.0	51
22	Decoupling processes and scales of shoreline morphodynamics. <i>Marine Geology</i> , 2016, 381, 42-53.	0.9	53
23	Tidal hydrodynamics under future sea level rise and coastal morphology in the Northern Gulf of Mexico. <i>Earth's Future</i> , 2016, 4, 159-176.	2.4	85
24	Coupling centennial-scale shoreline change to sea-level rise and coastal morphology in the Gulf of Mexico using a Bayesian network. <i>Earth's Future</i> , 2016, 4, 143-158.	2.4	45
25	Evaluation of dynamic coastal response to sea-level rise modifies inundation likelihood. <i>Nature Climate Change</i> , 2016, 6, 696-700.	8.1	105
26	Using a Bayesian network to predict barrier island geomorphologic characteristics. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 2452-2475.	1.0	49
27	Changes in erosion and flooding risk due to long-term and cyclic oceanographic trends. <i>Geophysical Research Letters</i> , 2015, 42, 2943-2950.	1.5	23
28	How well can wave runup be predicted? Comment on Laudier et al. (2011) and Stockdon et al. (2006). <i>Coastal Engineering</i> , 2015, 102, 44-48.	1.7	14
29	Nearshore dynamics of artificial sand and oil agglomerates. <i>Marine Pollution Bulletin</i> , 2015, 96, 344-355.	2.3	6
30	A cross-validation package driving Netica with python. <i>Environmental Modelling and Software</i> , 2015, 63, 14-23.	1.9	38
31	Predictions of barrier island berm evolution in a time-varying storm climatology. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 300-316.	1.0	32
32	Inundation of a barrier island (Chandeleur Islands, Louisiana, USA) during a hurricane: Observed water-level gradients and modeled seaward sand transport. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 1498-1515.	1.0	58
33	USGS iCoast -- did the coast change?. , 2014, , .		7
34	Effects of sea-level rise on barrier island groundwater system dynamics -- ecohydrological implications. <i>Ecohydrology</i> , 2014, 7, 1064-1071.	1.1	47
35	Assessing mobility and redistribution patterns of sand and oil agglomerates in the surf zone. <i>Marine Pollution Bulletin</i> , 2014, 80, 200-209.	2.3	33
36	A Bayesian network approach to predicting nest presence of the federally-threatened piping plover (<i>Charadrius melodus</i>) using barrier island features. <i>Ecological Modelling</i> , 2014, 276, 38-50.	1.2	26

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37	Scaling coastal dune elevation changes across storm-impact regimes. <i>Geophysical Research Letters</i> , 2014, 41, 2899-2906.	1.5	43
38	cBathy: A robust algorithm for estimating nearshore bathymetry. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 2595-2609.	1.0	166
39	Bridging groundwater models and decision support with a Bayesian network. <i>Water Resources Research</i> , 2013, 49, 6459-6473.	1.7	63
40	Beach response to a fixed sand bypassing system. <i>Coastal Engineering</i> , 2013, 73, 28-42.	1.7	19
41	Velocity estimation using a Bayesian network in a critical-habitat reach of the Kootenai River, Idaho. <i>Water Resources Research</i> , 2013, 49, 5865-5879.	1.7	5
42	Probabilistic prediction of barrier-island response to hurricanes. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	83
43	Extended Kalman Filter framework for forecasting shoreline evolution. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	88
44	A behavior-oriented dynamic model for sandbar migration and 2DH evolution. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	53
45	The influence of the Atlantic Warm Pool on the Florida panhandle sea breeze. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	34
46	A Bayesian network to predict coastal vulnerability to sea level rise. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	137
47	Short-term sandbar variability based on video imagery: Comparison between Time-Average and Time-Variance techniques. <i>Marine Geology</i> , 2011, 289, 122-134.	0.9	17
48	Prediction and assimilation of surf-zone processes using a Bayesian network. <i>Coastal Engineering</i> , 2011, 58, 119-130.	1.7	51
49	Prediction and assimilation of surf-zone processes using a Bayesian network. <i>Coastal Engineering</i> , 2011, 58, 256-266.	1.7	25
50	Predicting coastal cliff erosion using a Bayesian probabilistic model. <i>Marine Geology</i> , 2010, 278, 140-149.	0.9	99
51	On cross-shore migration and equilibrium states of nearshore sandbars. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	24
52	Forecasting Hurricane Impact on Coastal Topography. <i>Eos</i> , 2010, 91, 65.	0.1	31
53	The effect of bathymetric filtering on nearshore process model results. <i>Coastal Engineering</i> , 2009, 56, 484-493.	1.7	34
54	Beach Wizard: Nearshore bathymetry estimation through assimilation of model computations and remote observations. <i>Coastal Engineering</i> , 2008, 55, 1016-1027.	1.7	114

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55	Ocean Wavenumber Estimation From Wave-Resolving Time Series Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2644-2658.	2.7	65
56	The Performance of Shoreline Detection Models Applied to Video Imagery. Journal of Coastal Research, 2007, 233, 658-670.	0.1	89
57	A Probabilistic Expert System Approach for Sea Mine Burial Prediction. IEEE Journal of Oceanic Engineering, 2007, 32, 260-272.	2.1	11
58	A dynamical attractor governs beach response to storms. Geophysical Research Letters, 2006, 33, .	1.5	46
59	Reply to comment by T. J. O'Hare and D. A. Huntley on "Morphologic properties derived from a simple cross-shore sediment transport model". Journal of Geophysical Research, 2006, 111, .	3.3	0
60	Morphologic Prediction from Coupled Grain-Scale and Equilibrium-Scale Models. , 2006, , 1.		0
61	Instantaneous energetics sediment transport model calibration. Coastal Engineering, 2005, 52, 647-653.	1.7	7
62	Prediction skill of nearshore profile evolution models. Journal of Geophysical Research, 2004, 109, .	3.3	40
63	Observations of nearshore crescentic sandbars. Journal of Geophysical Research, 2004, 109, .	3.3	150
64	A probabilistic approach for mine burial prediction. , 2004, , .		1
65	Fluid acceleration effects on suspended sediment transport in the swash zone. Journal of Geophysical Research, 2003, 108, .	3.3	81
66	EVALUATION OF NEARSHORE PROFILE PREDICTIONS. , 2003, , .		0
67	Analysis of the scale of errors in nearshore bathymetric data. Marine Geology, 2002, 191, 71-86.	0.9	124
68	Morphologic properties derived from a simple cross-shore sediment transport model. Journal of Geophysical Research, 2001, 106, 945-958.	3.3	35
69	Role of morphologic feedback in surf zone sandbar response. Journal of Geophysical Research, 2001, 106, 973-989.	3.3	66
70	Nonlinear Interaction of Nearshore Morphology. , 2001, , 2624.		0
71	Self-Organization in Surf Zone Morphodynamics: Alongshore Uniform Instabilities. , 2001, , .		1
72	Nearshore Morphology Characterization Based on a Predictive Model for Sandbar Migration. , 2001, , .		0

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73	A simple model for interannual sandbar behavior. Journal of Geophysical Research, 1999, 104, 15755-15776.	3.3	208
74	Interannual Shoreline Variations at Duck, NC, USA. , 1997, , 3521.		1
75	Intertidal beach profile estimation using video images. Marine Geology, 1997, 140, 1-24.	0.9	174