

Kristen D Splinter

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

3,254
citations

201658

27
h-index

161844

54
g-index

73
all docs

73
docs citations

73
times ranked

1845
citing authors

#	ARTICLE	IF	CITATIONS
1	Coastal vulnerability across the Pacific dominated by El Niño/Southern Oscillation. <i>Nature Geoscience</i> , 2015, 8, 801-807.	12.9	279
2	Impact of the winter 2013–2014 series of severe Western Europe storms on a double-barred sandy coast: Beach and dune erosion and megacusps embayments. <i>Geomorphology</i> , 2015, 238, 135-148.	2.6	269
3	CoastSat: A Google Earth Engine-enabled Python toolkit to extract shorelines from publicly available satellite imagery. <i>Environmental Modelling and Software</i> , 2019, 122, 104528.	4.5	242
4	Sub-annual to multi-decadal shoreline variability from publicly available satellite imagery. <i>Coastal Engineering</i> , 2019, 150, 160-174.	4.0	213
5	A simple equilibrium model for predicting shoreline change. <i>Coastal Engineering</i> , 2013, 73, 191-202.	4.0	179
6	Extreme coastal erosion enhanced by anomalous extratropical storm wave direction. <i>Scientific Reports</i> , 2017, 7, 6033.	3.3	159
7	A multi-decade dataset of monthly beach profile surveys and inshore wave forcing at Narrabeen, Australia. <i>Scientific Data</i> , 2016, 3, 160024.	5.3	153
8	A generalized equilibrium model for predicting daily to interannual shoreline response. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 1936-1958.	2.8	142
9	A relationship to describe the cumulative impact of storm clusters on beach erosion. <i>Coastal Engineering</i> , 2014, 83, 49-55.	4.0	119
10	Blind testing of shoreline evolution models. <i>Scientific Reports</i> , 2020, 10, 2137.	3.3	112
11	Modeling dune response to an East Coast Low. <i>Marine Geology</i> , 2012, 329-331, 46-57.	2.1	92
12	Remote Sensing Is Changing Our View of the Coast: Insights from 40 Years of Monitoring at Narrabeen-Collaroy, Australia. <i>Remote Sensing</i> , 2018, 10, 1744.	4.0	84
13	Shoreline recovery on wave-dominated sandy coastlines: the role of sandbar morphodynamics and nearshore wave parameters. <i>Marine Geology</i> , 2017, 385, 146-159.	2.1	73
14	Beach Slopes From Satellite-Derived Shorelines. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088365.	4.0	67
15	How much data is enough? The importance of morphological sampling interval and duration for calibration of empirical shoreline models. <i>Coastal Engineering</i> , 2013, 77, 14-27.	4.0	64
16	Annual prediction of shoreline erosion and subsequent recovery. <i>Coastal Engineering</i> , 2017, 130, 14-25.	4.0	64
17	Drivers of alongshore variable dune erosion during a storm event: Observations and modelling. <i>Coastal Engineering</i> , 2018, 131, 31-41.	4.0	61
18	Climate controls on longshore sediment transport. <i>Continental Shelf Research</i> , 2012, 48, 146-156.	1.8	54

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19	A behavior-oriented dynamic model for sandbar migration and 2DH evolution. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	53
20	Enhanced Coastal Shoreline Modeling Using an Ensemble Kalman Filter to Include Nonstationarity in Future Wave Climates. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090724.	4.0	49
21	Calibrating and assessing uncertainty in coastal numerical models. <i>Coastal Engineering</i> , 2017, 125, 28-41.	4.0	43
22	Modes of Berm and Beachface Recovery Following Storm Reset: Observations Using a Continuously Scanning Lidar. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 720-736.	2.8	43
23	Bayesian Networks in coastal engineering: Distinguishing descriptive and predictive applications. <i>Coastal Engineering</i> , 2018, 135, 16-30.	4.0	42
24	Observations and simulations of wave runup during a laboratory dune erosion experiment. <i>Coastal Engineering</i> , 2016, 115, 58-66.	4.0	38
25	Rapid adjustment of shoreline behavior to changing seasonality of storms: observations and modelling at an openâ€œcoast beach. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 1186-1194.	2.5	35
26	Evaluation of Opportunistic Shoreline Monitoring Capability Utilizing Existing â€œSurfcamâ€œ Infrastructure. <i>Journal of Coastal Research</i> , 2016, 32, 542.	0.3	31
27	A comparison of methods for discretizing continuous variables in Bayesian Networks. <i>Environmental Modelling and Software</i> , 2018, 108, 61-66.	4.5	30
28	Controls of local geology and cross-shore/longshore processes on embayed beach shoreline variability. <i>Marine Geology</i> , 2020, 422, 106118.	2.1	29
29	Steps to improve gender diversity in coastal geoscience and engineering. <i>Palgrave Communications</i> , 2018, 4, .	4.7	29
30	Calibration data requirements for modelling subaerial beach storm erosion. <i>Coastal Engineering</i> , 2019, 152, 103507.	4.0	28
31	Ensemble models from machine learning: an example of wave runup and coastal dune erosion. <i>Natural Hazards and Earth System Sciences</i> , 2019, 19, 2295-2309.	3.6	28
32	A multi-model ensemble approach to coastal storm erosion prediction. <i>Environmental Modelling and Software</i> , 2022, 150, 105356.	4.5	26
33	Observations and modelling of shoreline and multiple sandbar behaviour on a high-energy meso-tidal beach. <i>Continental Shelf Research</i> , 2018, 159, 33-45.	1.8	25
34	Controls of Variability in Berm and Dune Storm Erosion. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 2647-2665.	2.8	25
35	Resolution and Accuracy of an Airborne Scanning Laser System for Beach Surveys. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 2452-2464.	1.3	24
36	Assessment of Post-Storm Recovery of Beaches Using Video Imaging Techniques: A Case Study at Gold Coast, Australia. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 4704-4716.	6.3	23

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37	Beach State Recognition Using Argus Imagery and Convolutional Neural Networks. <i>Remote Sensing</i> , 2020, 12, 3953.	4.0	23
38	A storm hazard matrix combining coastal flooding and beach erosion. <i>Coastal Engineering</i> , 2021, 170, 104001.	4.0	23
39	Challenges and Opportunities in Coastal Shoreline Prediction. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	18
40	Capitalizing on the surfcam phenomenon: a pilot study in regional-scale shoreline and inshore wave monitoring utilizing existing camera infrastructure. <i>Journal of Coastal Research</i> , 2013, 165, 1433-1438.	0.3	17
41	Synchronised patterns of erosion and deposition observed at two beaches. <i>Marine Geology</i> , 2016, 380, 196-204.	2.1	17
42	Beach response to Australian East Coast Lows: A comparison between the 2007 and 2015 events, Narrabeen-Collaroy Beach. <i>Journal of Coastal Research</i> , 2016, 75, 388-392.	0.3	15
43	Modelling Cross-Shore Shoreline Change on Multiple Timescales and Their Interactions. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 582.	2.6	13
44	15 Priorities for Wind-Waves Research: An Australian Perspective. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E446-E461.	3.3	11
45	Bathymetric Data Requirements for Operational Coastal Erosion Forecasting Using XBeach. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 1053.	2.6	11
46	Bathymetry Estimation From Single-Frame Images of Nearshore Waves. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 3151-3160.	6.3	10
47	Aligning free surface properties in time-varying hydraulic jumps. <i>Experimental Thermal and Fluid Science</i> , 2021, 126, 110392.	2.7	10
48	Machine learning and coastal processes. , 2020, , 689-710.		8
49	Assessing Cross-Shore and Alongshore Variation in Beach Morphology Due to Wave Climate: Storms to Decades. <i>Oceanography</i> , 2017, 30, .	1.0	6
50	SPATIAL AND TEMPORAL VARIABILITY OF LONGSHORE TRANSPORT ALONG GOLD COAST, AUSTRALIA. <i>Coastal Engineering Proceedings</i> , 2011, 1, 95.	0.1	6
51	Opportunities of Lidar Measurements in Air-Water Flows. , 2019, , .		5
52	Monitoring data requirements for shoreline prediction: How much, how long, and how often?. <i>Journal of Coastal Research</i> , 2013, 165, 2179-2184.	0.3	4
53	LIDAR Scanning as an Advanced Technology in Physical Hydraulic Modelling: The Stilling Basin Example. <i>Remote Sensing</i> , 2021, 13, 3599.	4.0	4
54	MODELLING MULTI-DECADAL SHORELINE VARIABILITY AND EVOLUTION. <i>Coastal Engineering Proceedings</i> , 2012, 1, 98.	0.1	4

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55	DATA-DRIVEN MODELLING OF SHORELINE EVOLUTION. , 2019, , .		3
56	COMPARISON OF MEASURED AND MODELED RUN-UP AND RESULTING DUNE EROSION DURING A LAB EXPERIMENT. , 2011, , .		3
57	â€œCoastal Management Guide - Managing Coastal Erosionâ€™: A STEM education resource for secondary school teachers. Continental Shelf Research, 2022, 244, 104783.	1.8	3
58	BEACH NOURISHMENT AND COASTAL PROTECTION ALONG THE GOLD COAST, AUSTRALIA: A CASE STUDY AT PALM BEACH. , 2011, , .		2
59	Free-surface mapping of air-water flows in a stilling basin. , 2020, , .		2
60	TIME-SERIES OF SHORELINE CHANGE FROM PUBLICLY AVAILABLE SATELLITE IMAGERY. , 2019, , .		2
61	ESTIMATING SHORELINE RESPONSE IN A CHANGING WAVE CLIMATE. Coastal Engineering Proceedings, 2015, 1, 37.	0.1	1
62	BATHYMETRIC ESTIMATION BASED ON WAVE REFRACTION PATTERNS. , 2007, , .		1
63	COMPARING THE EFFECTS OF DIFFERENT THREE-DIMENSIONAL FORCING ON NEARSHORE CURRENTS. , 2005, , .		0
64	ADAPTING COASTS TO CLIMATIC FUTURES. AN AUSTRALIAN PERSPECTIVE. Coastal Engineering Proceedings, 2012, 1, 21.	0.1	0
65	ON THE IMPACT OF A SERIES OF SEVERE STORMS ON A DOUBLE-BARRED SANDY COAST: DUNE EROSION AND MEGACLIPS EMBAYMENTS. , 2015, , .		0
66	Creating communities and communicating science during COVID-19: From Coast2Coast to Coast2Cast. Continental Shelf Research, 2022, 245, 104794.	1.8	0