

Harshinie Karunaratna

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78 papers	1,089 citations	18 h-index	29 g-index
107 ext. papers	1,322 ext. citations	2.8 avg, IF	4.95 L-index

#	Paper	IF	Citations
78	A comprehensive study of the tides around the Welsh coastal waters. <i>Estuarine, Coastal and Shelf Science</i> , 2021 , 254, 107326	2.9	5
77	Coastal wetlands mitigate storm flooding and associated costs in estuaries. <i>Environmental Research Letters</i> , 2021 , 16, 074034	6.2	3
76	Wave overtopping of smooth impermeable seawalls under unidirectional bimodal sea conditions. <i>Coastal Engineering</i> , 2021 , 165, 103792	4.8	
75	Modelling wave attenuation by quasi-flexible coastal vegetation. <i>Coastal Engineering</i> , 2021 , 164, 103820	4.8	10
74	Gravel Barrier Beach Morphodynamic Response to Extreme Conditions. <i>Journal of Marine Science and Engineering</i> , 2021 , 9, 135	2.4	5
73	Investigating skimming flow conditions over stepped spillways using particle image velocimetry. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 888, 012023	0.4	0
72	Computational Modelling of the Impacts of Saltmarsh Management Interventions on Hydrodynamics of a Small Macro-Tidal Estuary. <i>Journal of Marine Science and Engineering</i> , 2020 , 8, 373	2.4	6
71	Reflection Analysis of Impermeable Slopes under Bimodal Sea Conditions. <i>Journal of Marine Science and Engineering</i> , 2020 , 8, 133	2.4	3
70	Impacts of Global Climate Change on the Future Ocean Wave Power Potential: A Case Study from the Indian Ocean. <i>Energies</i> , 2020 , 13, 3028	3.1	2
69	Storm sequencing and beach profile variability at Hasaki, Japan. <i>Marine Geology</i> , 2020 , 424, 106153	3.3	8
68	A classification system for global wave energy resources based on multivariate clustering. <i>Applied Energy</i> , 2020 , 262, 114515	10.7	37
67	Experimental study on vegetation flexibility as control parameter for wave damping and velocity structure. <i>Coastal Engineering</i> , 2020 , 157, 103648	4.8	32
66	Evaluation of spatio-temporal variability of ocean wave power resource around Sri Lanka. <i>Energy</i> , 2020 , 200, 117503	7.9	6
65	Spatial Variation in Coastal Dune Evolution in a High Tidal Range Environment. <i>Remote Sensing</i> , 2020 , 12, 3689	5	6
64	Morphodynamics of sandy beaches under the influence of storm sequences: Current research status and future needs. <i>Water Science and Engineering</i> , 2019 , 12, 221-234	4	18
63	A new perspective on meso-scale shoreline dynamics through data-driven analysis. <i>Geomorphology</i> , 2019 , 341, 169-191	4.3	3
62	Effects of Swell on Wave Height Distribution of Energy-Conserved Bimodal Seas. <i>Journal of Marine Science and Engineering</i> , 2019 , 7, 79	2.4	5

61	Computational investigation of hydraulic performance variation with geometry in gabion stepped spillways. <i>Water Science and Engineering</i> , 2019 , 12, 62-72	4	4
60	Consistent Particle Method simulation of solitary wave impinging on and overtopping a seawall. <i>Engineering Analysis With Boundary Elements</i> , 2019 , 103, 160-171	2.6	21
59	3D modelling of the impacts of in-stream horizontal-axis Tidal Energy Converters (TECs) on offshore sandbank dynamics. <i>Applied Ocean Research</i> , 2019 , 91, 101882	3.4	11
58	Computational modelling of morphodynamic response of a macro-tidal beach to future climate variabilities. <i>Marine Geology</i> , 2019 , 415, 105960	3.3	7
57	Coastal flood alleviation through management interventions under changing climate conditions. <i>International Journal of Disaster Resilience in the Built Environment</i> , 2019 , 11, 187-203	1.4	1
56	A Computational Investigation of Storm Impacts on Estuary Morphodynamics. <i>Journal of Marine Science and Engineering</i> , 2019 , 7, 421	2.4	2
55	Numerical modelling of hydrodynamic and morphodynamic response of a meso-tidal estuary inlet to the impacts of global climate variabilities. <i>Marine Geology</i> , 2019 , 407, 229-247	3.3	12
54	The influence of waves on morphodynamic impacts of energy extraction at a tidal stream turbine site in the Pentland Firth. <i>Renewable Energy</i> , 2018 , 125, 630-647	8.1	4
53	Multi-timescale morphological modelling of a dune-fronted sandy beach. <i>Coastal Engineering</i> , 2018 , 136, 161-171	4.8	21
52	Seasonal to Decadal Variability of Shoreline Position on a Multiple Sandbar Beach. <i>Journal of Coastal Research</i> , 2018 , 85, 261-265	0.6	1
51	Developing methodologies for large scale wave and tidal stream marine renewable energy extraction and its environmental impact: An overview of the TeraWatt project. <i>Ocean and Coastal Management</i> , 2017 , 147, 1-5	3.9	3
50	Large scale three-dimensional modelling for wave and tidal energy resource and environmental impact: Methodologies for quantifying acceptable thresholds for sustainable exploitation. <i>Ocean and Coastal Management</i> , 2017 , 147, 67-77	3.9	14
49	Modelling 3D hydrodynamics governing island-associated sandbanks in a proposed tidal stream energy site. <i>Applied Ocean Research</i> , 2017 , 66, 79-94	3.4	10
48	Modelling Extreme Wave Overtopping at Aberystwyth Promenade. <i>Water (Switzerland)</i> , 2017 , 9, 663	3	15
47	Two-dimensional reduced-physics model to describe historic morphodynamic behaviour of an estuary inlet. <i>Marine Geology</i> , 2016 , 382, 200-209	3.3	3
46	Investigation of wind and tidal forcing on stratified flows in Greenland fjords with TELEMAC-3D. <i>European Journal of Computational Mechanics</i> , 2016 , 25, 249-272	0.5	
45	Investigation of deep sea shelf sandbank dynamics driven by highly energetic tidal flows. <i>Marine Geology</i> , 2016 , 380, 245-263	3.3	3
44	Performance of a data-driven technique applied to changes in wave height and its effect on beach response. <i>Water Science and Engineering</i> , 2016 , 9, 42-51	4	2

43	Comparison between wave generation methods for numerical simulation of bimodal seas. <i>Water Science and Engineering</i> , 2016 , 9, 3-13	4	4
42	Data-driven and hybrid coastal morphological prediction methods for mesoscale forecasting. <i>Geomorphology</i> , 2016 , 256, 49-67	4.3	22
41	Climate Change Impacts on Future Wave Climate around the UK. <i>Journal of Marine Science and Engineering</i> , 2016 , 4, 78	2.4	14
40	Annual down-glacier drainage of lakes and water-filled crevasses at Helheim Glacier, southeast Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016 , 121, 1819-1833	3.8	18
39	Numerical modelling of storm and surge events on offshore sandbanks. <i>Marine Geology</i> , 2016 , 371, 106-119	3.9	15
38	Linkages between sediment composition, wave climate and beach profile variability at multiple timescales. <i>Marine Geology</i> , 2016 , 381, 194-208	3.3	14
37	Stability formula and failure probability analysis of wave-dissipating blocks considering wave breaking. <i>Journal of Ocean Engineering and Marine Energy</i> , 2015 , 1, 45-54	1.5	4
36	The cumulative impact of tidal stream turbine arrays on sediment transport in the Pentland Firth. <i>Renewable Energy</i> , 2015 , 80, 755-769	8.1	49
35	Forecasts of seasonal to inter-annual beach change using a reduced physics beach profile model. <i>Marine Geology</i> , 2015 , 365, 14-20	3.3	0
34	Effects of storm clustering on beach/dune evolution. <i>Marine Geology</i> , 2015 , 370, 63-75	3.3	56
33	Comparison of storm cluster vs isolated event impacts on beach/dune morphodynamics. <i>Estuarine, Coastal and Shelf Science</i> , 2015 , 164, 301-312	2.9	33
32	Analysis of Climate Change Effects on Seawall Reliability. <i>Coastal Engineering Journal</i> , 2015 , 57, 1550010-1550018	10.1	18
31	An evaluation of methods available for quantifying extreme beach erosion. <i>Journal of Ocean Engineering and Marine Energy</i> , 2015 , 1, 31-43	1.5	4
30	MODELLING MEMORY OF COASTAL FLOOD SYSTEMS. <i>Coastal Engineering Proceedings</i> , 2015 , 1, 19	1.4	
29	Impacts of storm chronology on the morphological changes of the Formby beach and dune system, UK. <i>Natural Hazards and Earth System Sciences</i> , 2015 , 15, 1533-1543	3.9	32
28	A Comparison of Numerical Modelling Techniques for Tidal Stream Turbine Analysis. <i>Energies</i> , 2015 , 8, 7833-7853	3.1	37
27	Analysis of multi-scale morphodynamic behavior of a high energy beach facing the Sea of Japan. <i>Frontiers in Marine Science</i> , 2015 , 2,	4.5	1
26	A HYBRID-REDUCED PHYSICS MODELLING APPROACH APPLIED TO THE DEBEN ESTUARY, UK. <i>Coastal Engineering Proceedings</i> , 2015 , 1, 76	1.4	1

25	IMPACTS OF TIDAL ENERGY EXTRACTION ON SEA BED MORPHOLOGY. <i>Coastal Engineering Proceedings</i> , 2015 , 1, 33	1.4	6
24	A hybrid beach morphology model applied to a high energy sandy beach. <i>Ocean Dynamics</i> , 2015 , 65, 1411-1422	1.3	22
23	Investigation of pressure variations over stepped spillways using smooth particle hydrodynamics. <i>Advances in Water Resources</i> , 2014 , 66, 52-69	4.7	18
22	The effects of storm clustering on beach profile variability. <i>Marine Geology</i> , 2014 , 348, 103-112	3.3	94
21	Modelling storm-induced beach/dune evolution: Sefton coast, Liverpool Bay, UK. <i>Marine Geology</i> , 2014 , 357, 225-242	3.3	45
20	A hybrid approach to model shoreline change at multiple timescales. <i>Continental Shelf Research</i> , 2013 , 66, 29-35	2.4	10
19	A statistical-process based approach for modelling beach profile variability. <i>Coastal Engineering</i> , 2013 , 81, 19-29	4.8	66
18	An analysis of the cross-shore beach morphodynamics of a sandy and a composite gravel beach. <i>Marine Geology</i> , 2012 , 299-302, 33-42	3.3	23
17	Prediction of cross-shore beach profile evolution using a diffusion type model. <i>Continental Shelf Research</i> , 2012 , 48, 157-166	2.4	6
16	iCOASST ¶TEGRATING COASTAL SEDIMENT SYSTEMS. <i>Coastal Engineering Proceedings</i> , 2012 , 1, 100	1.4	14
15	Analysis of key parameters in a diffusion type beach profile evolution model. <i>Continental Shelf Research</i> , 2011 , 31, 98-107	2.4	7
14	A statistical¶ynamical method for predicting estuary morphology. <i>Ocean Dynamics</i> , 2011 , 61, 1033-1044	2.3	9
13	Modelling the long-term morphological evolution of the Clyde Estuary, Scotland, UK. <i>Journal of Coastal Conservation</i> , 2011 , 15, 499-507	1.9	5
12	Reply to: Pye, K., 2008. Discussion of: Karunaratna, H. and Reeve, D., 2008. A Boolean Approach to Prediction of Long-Term Evolution of Estuary Morphology. <i>Journal of Coastal Research</i> , 24(2B), 51¶1; <i>Journal of Coastal Research</i> , 24(5), 1351¶352. <i>Journal of Coastal Research</i> , 2009 , 252, 523-525	0.6	
11	On the prediction of long-term morphodynamic response of estuarine systems to sea level rise and human interference. <i>Continental Shelf Research</i> , 2009 , 29, 938-950	2.4	20
10	Beach profile evolution as an inverse problem. <i>Continental Shelf Research</i> , 2009 , 29, 2234-2239	2.4	15
9	Long-term morphodynamic evolution of estuaries: An inverse problem. <i>Estuarine, Coastal and Shelf Science</i> , 2008 , 77, 385-395	2.9	43
8	A Boolean Approach to Prediction of Long-Term Evolution of Estuary Morphology. <i>Journal of Coastal Research</i> , 2008 , 2, 51-61	0.6	16

7	On low-frequency waves in the surf and swash. <i>Ocean Engineering</i> , 2007 , 34, 2115-2123	3.9	2
6	A new analysis of the Slapton barrier beach system, UK. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , 2005 , 158, 147-161	1.8	16
5	Numerical experiments of swash oscillations on steep and gentle beaches. <i>Coastal Engineering</i> , 2005 , 52, 497-511	4.8	11
4	An experimental study of rip channel flow. <i>Coastal Engineering</i> , 2002 , 45, 223-238	4.8	44
3	Long-period water surface fluctuations on a horizontal coastal shelf with a steep seaward face. <i>Coastal Engineering</i> , 1996 , 29, 123-147	4.8	2
2	Numerical experiments on low-frequency fluctuations on a submerged coastal reef. <i>Coastal Engineering</i> , 1995 , 26, 271-289	4.8	10
1	Impacts of storm chronology on the morphological changes of the Formby beach and dune system, UK		2