Karin R Bryan

List of Publications by Year
in descending order

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118 papers	3,308 citations	136940 32 h-index	182417 51 g-index
121 all docs	121 docs citations	121 times ranked	2675 citing authors

#	Article	IF	Citations
1	Decadalâ€scale impacts of changing mangrove extent on hydrodynamics and sediment transport in a quiescent, mesotidal estuary. Earth Surface Processes and Landforms, 2022, 47, 1287-1303.	2.5	5
2	A Multiscale Approach to Shoreline Prediction. Geophysical Research Letters, 2021, 48, .	4.0	20
3	Relating millimeterâ€scale turbulence to meterâ€scale subtidal erosion and accretion across the fringe of a coastal mangrove forest. Earth Surface Processes and Landforms, 2021, 46, 573-592.	2.5	7
4	Drag variations, tidal asymmetry and tidal range changes in a mangrove creek system. Earth Surface Processes and Landforms, 2021, 46, 1828-1846.	2.5	16
5	The interaction of buoyant coastal river plumes with mangrove vegetation and consequences for sediment deposition and erosion in a tidal environment. Continental Shelf Research, 2021, 222, 104417.	1.8	2
6	Parallel computing efficiency of SWAN 40.91. Geoscientific Model Development, 2021, 14, 4241-4247.	3.6	4
7	Estuary rejuvenation in response to sea level rise: an example from Tairua Estuary, New Zealand. Geo-Marine Letters, 2020, 40, 269-280.	1.1	4
8	Rapid transition of sediment consolidation across an expanding mangrove fringe in the Firth of Thames New Zealand. Geo-Marine Letters, 2020, 40, 295-308.	1.1	8
9	Rapid shoreline flooding enhances water turbidity by sediment resuspension: An example in a large Tibetan lake. Earth Surface Processes and Landforms, 2020, 45, 3780-3790.	2.5	3
10	The effect of longâ€term aerial exposure on intertidal mudflat erodibility. Earth Surface Processes and Landforms, 2020, 45, 3623-3638.	2.5	7
11	Wave behaviour outside the surf zone. , 2020, , 61-86.		4
12	The influence of tidal jet current â€“ Ocean wave interaction on the embayed beach processes. Marine Geology, 2020, 426, 106200.	2.1	2
13	The surf zone. , 2020, , 131-153.		1
14	Spectral differences in the underwater light regime caused by sediment types in New Zealand estuaries: implications for seagrass photosynthesis. Geo-Marine Letters, 2020, 40, 217-225.	1.1	8
15	Blind testing of shoreline evolution models. Scientific Reports, 2020, 10, 2137.	3.3	112
16	Introduction to the special issue of the INTERCOAST graduate training group on coastal and shelf seas in New Zealand and Germany. Geo-Marine Letters, 2020, 40, 115-115.	1.1	0
17	Shady business: the darkening of estuaries constrains benthic ecosystem function. Marine Ecology - Progress Series, 2020, 647, 33-48.	1.9	23
18	Regionalâ€scale ocean wave variability associated with El NiÃ±oâ€“Southern Oscillationâ€Maddenâ€Julian Oscillation combined activity. International Journal of Climatology, 2019, 39, 483-494.	3.5	8

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19	The links between entrance geometry, hypsometry and hydrodynamics in shallow tidally dominated basins. Earth Surface Processes and Landforms, 2019, 44, 1957-1972.	2.5	9
20	Influence of ambient temperature on erosion properties of exposed cohesive sediment from an intertidal mudflat. Geo-Marine Letters, 2019, 39, 337-347.	1.1	9
21	Attenuation of Storm Surges by Coastal Mangroves. Geophysical Research Letters, 2019, 46, 2680-2689.	4.0	53
22	Light penetration in a temperate meso-tidal lagoon: Implications for seagrass growth and dredging in Tauranga Harbour, New Zealand. Ocean and Coastal Management, 2019, 174, 25-37.	4.4	13
23	Turbulence Within Natural Mangrove Pneumatophore Canopies. Journal of Geophysical Research: Oceans, 2019, 124, 2263-2288.	2.6	22
24	Spatial Patterns in Groundwater Seepage and Surf Zone Morphology: Muriwai Beach, New Zealand. Journal of Coastal Research, 2019, 35, 186.	0.3	1
25	The Influence of Sand Bar Morphology on Surfing Amenity at New Zealand Beach Breaks. Journal of Coastal Research, 2019, 87, 44.	0.3	5
26	An introductory note from the new editors. Geo-Marine Letters, 2018, 38, 193-193.	1.1	0
27	The Dynamics of Expanding Mangroves in New Zealand. Coastal Research Library, 2018, , 23-51.	0.4	16
28	Storm wave clustering around New Zealand and its connection to climatic patterns. International Journal of Climatology, 2018, 38, e401.	3.5	10
29	Are flow-vegetation interactions well represented by mimics? A case study of mangrove pneumatophores. Advances in Water Resources, 2018, 111, 360-371.	3.8	35
30	Submarine Groundwater Discharge Estimates Using Radium Isotopes and Related Nutrient Inputs into Tauranga Harbour (New Zealand). Estuaries and Coasts, 2018, 41, 384-403.	2.2	23
31	Formation of coast-parallel heavy mineral enrichments investigated by exploratory numerical modelling. Bulletin of the Geological Society of America, 2018, , .	3.3	0
32	Attenuation of Tides and Surges by Mangroves: Contrasting Case Studies from New Zealand. Water (Switzerland), 2018, 10, 1119.	2.7	37
33	Field Observations of Alongshore Runup Variability Under Dissipative Conditions in the Presence of a Shoreline Sandwave. Journal of Geophysical Research: Oceans, 2018, 123, 6800-6817.	2.6	10
34	Rip current circulation and surf zone retention on a double barred beach. Marine Geology, 2018, 405, 12-22.	2.1	14
35	Steps to improve gender diversity in coastal geoscience and engineering. Palgrave Communications, 2018, 4, .	4.7	29
36	The effect of wind waves on spring-neap variations in sediment transport in two meso-tidal estuarine basins with contrasting fetch. Geomorphology, 2017, 280, 76-88.	2.6	9

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37	Magnetic mineral and sediment porosity distribution on a storm-dominated shelf investigated by benthic electromagnetic profiling (Bay of Plenty, New Zealand). Marine Geology, 2017, 383, 78-98.	2.1	6
38	Observations of morphological change at an ebb-tidal delta. Marine Geology, 2017, 385, 131-145.	2.1	19
39	Sediment dynamics of an artificially deepened mesotidal coastal lagoon: An environmental magnetic investigation of Tauranga Harbour, New Zealand. Estuarine, Coastal and Shelf Science, 2017, 194, 240-251.	2.1	7
40	The effect of pneumatophore density on turbulence: A field study in a Sonneratia-dominated mangrove forest, Vietnam. Continental Shelf Research, 2017, 147, 114-127.	1.8	69
41	The role of cross-shore tidal dynamics in controlling intertidal sediment exchange in mangroves in CÃ¹ Lao Dung, Vietnam. Continental Shelf Research, 2017, 147, 128-143.	1.8	35
42	Wave-frequency flows within a near-bed vegetation canopy. Continental Shelf Research, 2017, 147, 91-101.	1.8	24
43	Shore and bar crossâ€shore migration, rotation, and breathing processes at an embayed beach. Journal of Geophysical Research F: Earth Surface, 2017, 122, 1745-1770.	2.8	30
44	Extreme waves in New Zealand waters. Ocean Modelling, 2017, 117, 97-110.	2.4	19
45	A computational investigation of the interstitial flow induced by a variably thick blanket of very fine sand covering a coarse sand bed. Geo-Marine Letters, 2017, 37, 457-474.	1.1	3
46	Spatially varying drag within a wave-exposed mangrove forest and on the adjacent tidal flat. Continental Shelf Research, 2017, 147, 102-113.	1.8	46
47	Spatial and temporal scales of shoreline morphodynamics derived from video camera observations for the island of Sylt, German Wadden Sea. Geo-Marine Letters, 2017, 37, 111-123.	1.1	18
48	Impacts of a bivalve mass mortality event on an estuarine food web and bivalve grazing pressure. New Zealand Journal of Marine and Freshwater Research, 2017, 51, 370-392.	2.0	26
49	Buried Alive or Washed Away: The Challenging Life of Mangroves in the Mekong Delta. Oceanography, 2017, 30, 48-59.	1.0	36
50	A Question of Scale: How Turbulence Around Aerial Roots Shapes the Seabed Morphology in Mangrove Forests of the Mekong Delta. Oceanography, 2017, 30, 34-47.	1.0	25
51	MODEL VERSUS NATURE: HYDRODYNAMICS IN MANGROVE PNEUMATOPHORES. Coastal Engineering Proceedings, 2017, , 19.	0.1	2
52	Nearshore sandbar rotation at singleâ€barred embayed beaches. Journal of Geophysical Research: Oceans, 2016, 121, 2286-2313.	2.6	24
53	Observations of asymmetry in contrasting waveâ€and tidallyâ€dominated environments within a mesotidal basin: implications for estuarine morphological evolution. Earth Surface Processes and Landforms, 2016, 41, 2207-2222.	2.5	21
54	Regional influence of climate patterns on the wave climate of the southwestern Pacific: The New Zealand region. Journal of Geophysical Research: Oceans, 2016, 121, 4056-4076.	2.6	23

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55	Pulsations in Surf Zone Currents on a High Energy Mesotidal Beach in New Zealand. Journal of Coastal Research, 2016, 75, 378-382.	0.3	0
56	Seasonal Variations in Recovery Timescales of Shorelines on an Embayed Beach. Journal of Coastal Research, 2016, 75, 353-357.	0.3	5
57	Oil dispersal modelling: reanalysis of theRenaoil spill using open-source modelling tools. New Zealand Journal of Marine and Freshwater Research, 2016, 50, 10-27.	2.0	8
58	Lithofacies distribution and sediment dynamics on a storm-dominated shelf from combined photographic, acoustic and sedimentological profiling methods (Bay of Plenty, New Zealand). Marine Geology, 2016, 376, 158-174.	2.1	6
59	On the ecogeomorphological feedbacks that control tidal channel network evolution in aÂsandy mangrove setting. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150115.	2.1	51
60	Algebraic equilibrium solution of tissue nitrogen quota in algae and the discrepancy between calibrated parameters and physiological properties. Ecological Modelling, 2015, 312, 281-291.	2.5	9
61	On the morphological development of embayed beaches. Geomorphology, 2015, 248, 252-263.	2.6	18
62	On the use of variance images for runup and shoreline detection. Coastal Engineering, 2015, 99, 136-147.	4.0	34
63	Coastal vulnerability across the Pacific dominated by El NiÃ±o/Southern Oscillation. Nature Geoscience, 2015, 8, 801-807.	12.9	279
64	The influence of wind and waves on the existence of stable intertidal morphology in meso-tidal estuaries. Geomorphology, 2015, 228, 158-174.	2.6	61
65	SIMPLE POCKET BEACH ROTATION MODEL DERIVED FROM LINEAR ANALYSIS. , 2015, , .		5
66	Effect of selection and sequencing of representative wave conditions on process-based predictions of equilibrium embayed beach morphology. Ocean Dynamics, 2014, 64, 863-877.	2.2	16
67	Beach response to a sequence of extreme storms. Geomorphology, 2014, 204, 493-501.	2.6	158
68	Wave energy distribution and morphological development in and around the shadow zone of an embayed beach. Coastal Engineering, 2014, 93, 40-54.	4.0	30
69	Influence of porewater exchange on nutrient dynamics in two New Zealand estuarine intertidal flats. Marine Chemistry, 2014, 167, 57-70.	2.3	76
70	Observations of shorelineâ€“sandbar coupling on an embayed beach. Marine Geology, 2013, 344, 101-114.	2.1	71
71	On the Stabilizing Influence of Silt On Sand Beds. Journal of Sedimentary Research, 2013, 83, 691-703.	1.6	30
72	Modelling the effects of tidal range and initial bathymetry on the morphological evolution of tidal embayments. Geomorphology, 2013, 191, 23-34.	2.6	69

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73	Modeling the morphodynamic response of tidal embayments to sea-level rise. Ocean Dynamics, 2013, 63, 1249-1262.	2.2	51
74	Observations of wave energy fluxes and swash motions on a low-sloping, dissipative beach. Journal of Geophysical Research: Oceans, 2013, 118, 3651-3669.	2.6	56
75	The hydrodynamics of the southern basin of Tauranga Harbour. New Zealand Journal of Marine and Freshwater Research, 2013, 47, 249-274.	2.0	23
76	Beach Rotation at Two Adjacent Headland-Enclosed Beaches. Journal of Coastal Research, 2013, 165, 2095-2100.	0.3	19
77	Dissolved inorganic nitrogen concentrations in an estuarine tidal flat. Journal of Coastal Research, 2013, 65, 135-140.	0.3	7
78	Video-Based Detection of Shorelines at Complex Mesoâ€“Macro Tidal Beaches. Journal of Coastal Research, 2012, 28, 1040.	0.3	36
79	In-Situ Geotechnical Characterization of Mixed-Grain-Size Bedforms Using A Dynamic Penetrometer. Journal of Sedimentary Research, 2012, 82, 540-544.	1.6	18
80	Formation of magnetiteâ€enriched zones in and offshore of a mesotidal estuarine lagoon: An environmental magnetic study of Tauranga Harbour and Bay of Plenty, New Zealand. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	15
81	A data-driven approach to predict suspended-sediment reference concentration under non-breaking waves. Continental Shelf Research, 2012, 46, 96-106.	1.8	30
82	Observations of alongshore variability of swash motions on an intermediate beach. Continental Shelf Research, 2012, 48, 61-74.	1.8	23
83	Variations in nutrient concentrations at different time scales in two shallow tidally dominated estuaries. Marine and Freshwater Research, 2012, 63, 95.	1.3	19
84	The effects of tides on swash statistics on an intermediate beach. Journal of Geophysical Research, 2011, 116, .	3.3	52
85	Wave runup during extreme storm conditions. Journal of Geophysical Research, 2011, 116, .	3.3	129
86	The use of video imagery to analyse groundwater and shoreline dynamics on a dissipative beach. Continental Shelf Research, 2011, 31, 1728-1738.	1.8	28
87	Storm-driven changes in rip channel patterns on an embayed beach. Geomorphology, 2011, 127, 179-188.	2.6	52
88	A numerical model to simulate the formation and subsequent evolution of tidal channel networks. Australian Journal of Civil Engineering, 2011, 9, 61-72.	1.6	17
89	Effects of infaunal bivalve density and flow speed on clearance rates and near-bed hydrodynamics. Journal of Experimental Marine Biology and Ecology, 2011, 401, 20-28.	1.5	27
90	Numerical Simulations of Wave Setup over Barred Beach Profiles: Implications for Predictability. Journal of Waterway, Port, Coastal and Ocean Engineering, 2011, 137, 175-181.	1.2	25

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91	The use of artificial neural networks to analyze and predict alongshore sediment transport. Nonlinear Processes in Geophysics, 2010, 17, 395-404.	1.3	37
92	Observations of nonlinear runup patterns on plane and rhythmic beach morphology. Journal of Geophysical Research, 2010, 115, .	3.3	12
93	Modelling the dispersal of biodeposits from mussel farms: The importance of simulating biodeposit erosion and decay. Aquaculture, 2009, 291, 168-178.	3.5	63
94	MEASURING STORM RUN-UP ON INTERMEDIATE BEACHES USING VIDEO. , 2009, , .		1
95	Video observations of beach cusp morphodynamics. Marine Geology, 2008, 254, 216-223.	2.1	65
96	Completeness, conservation and error in SPH for fluids. International Journal for Numerical Methods in Fluids, 2008, 56, 37-62.	1.6	56
97	Onshore sandbar migration at Tairua Beach (New Zealand): Numerical simulations and field measurements. Marine Geology, 2008, 253, 99-106.	2.1	30
98	New Zealand coastal system boundaries, connections and management. New Zealand Geographer, 2008, 64, 129-143.	0.9	20
99	A commentary on coastal research in New Zealand universities. New Zealand Geographer, 2008, 64, 93-104.	0.9	4
100	Multiâ€•decadal coastal change in New Zealand: Evidence, mechanisms and implications. New Zealand Geographer, 2008, 64, 117-128.	0.9	19
101	The role of biomorphodynamics in estuarine evolution in New Zealand. New Zealand Geographer, 2008, 64, 162-164.	0.9	0
102	Influence of â€œdefectsâ€•on sorted bedform dynamics. Geophysical Research Letters, 2008, 35, .	4.0	25
103	Monitoring Beach Face Volume with a Combination of Intermittent Profiling and Video Imagery. Journal of Coastal Research, 2007, 234, 892-898.	0.3	49
104	Detecting nonlinearity in run-up on a natural beach. Nonlinear Processes in Geophysics, 2007, 14, 385-393.	1.3	5
105	Spatial and temporal variability of titanomagnetite placer deposits on a predominantly black sand beach. Marine Geology, 2007, 236, 45-59.	2.1	27
106	Field observations of swash zone infragravity motions and beach cusp evolution. Journal of Geophysical Research, 2005, 110, .	3.3	24
107	Observations of infragravity wave frequency selection. Continental Shelf Research, 2003, 23, 1019-1034.	1.8	12
108	Wave hindcast for the New Zealand region: Deepâ€•water wave climate. New Zealand Journal of Marine and Freshwater Research, 2003, 37, 589-612.	2.0	53

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109	Wave hindcast for the New Zealand region: Nearshore validation and coastal wave climate. New Zealand Journal of Marine and Freshwater Research, 2003, 37, 567-588.	2.0	88
110	Spectral Estimates of Dissipation Rate within and near the Surf Zone. Journal of Physical Oceanography, 2003, 33, 979-993.	1.7	36
111	Bars formed by horizontal diffusion of suspended sediment. Coastal Engineering, 2002, 47, 53-75.	4.0	19
112	Seston supply to sea scallops (Placopecten magellanicus) in suspended culture. Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 241-253.	1.4	62
113	Seston supply to sea scallops (<i>Placopecten magellanicus</i>) in suspended culture. Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 241-253.	1.4	7
114	The Effect of a Modulating Breakpoint on Bar-Trapped Waves. , 2001, , .		0
115	Field observations of bar-trapped edge waves. Journal of Geophysical Research, 1998, 103, 1285-1305.	3.3	21
116	Bar-trapped edge waves and longshore currents. Journal of Geophysical Research, 1998, 103, 27867-27884.	3.3	14
117	Edge wave trapping and amplification on barred beaches. Journal of Geophysical Research, 1996, 101, 6543-6552.	3.3	32
118	The effects of windâ€generated currents on velocity asymmetry in tidal basins with varying geometries. Earth Surface Processes and Landforms, 0, , .	2.5	1