

Ian L Turner

List of Publications by Year in descending order

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137
papers

7,491
citations

46918

47
h-index

56606

83
g-index

147
all docs

147
docs citations

147
times ranked

3691
citing authors

#	ARTICLE	IF	CITATIONS
1	Shoreline Definition and Detection: A Review. <i>Journal of Coastal Research</i> , 2005, 214, 688-703.	0.1	902
2	UAVs for coastal surveying. <i>Coastal Engineering</i> , 2016, 114, 19-24.	1.7	325
3	Coastal vulnerability across the Pacific dominated by El Niño/Southern Oscillation. <i>Nature Geoscience</i> , 2015, 8, 801-807.	5.4	279
4	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.	1.9	242
5	A video-based technique for mapping intertidal beach bathymetry. <i>Coastal Engineering</i> , 2003, 49, 275-289.	1.7	216
6	Sub-annual to multi-decadal shoreline variability from publicly available satellite imagery. <i>Coastal Engineering</i> , 2019, 150, 160-174.	1.7	213
7	Swash infiltration-exfiltration and sediment transport. <i>Journal of Geophysical Research</i> , 1998, 103, 30813-30824.	3.3	183
8	A simple equilibrium model for predicting shoreline change. <i>Coastal Engineering</i> , 2013, 73, 191-202.	1.7	179
9	Extreme coastal erosion enhanced by anomalous extratropical storm wave direction. <i>Scientific Reports</i> , 2017, 7, 6033.	1.6	159
10	Assessment and integration of conventional, RTK-GPS and image-derived beach survey methods for daily to decadal coastal monitoring. <i>Coastal Engineering</i> , 2011, 58, 194-205.	1.7	153
11	A multi-decade dataset of monthly beach profile surveys and inshore wave forcing at Narrabeen, Australia. <i>Scientific Data</i> , 2016, 3, 160024.	2.4	153
12	Observations of nearshore crescentic sandbars. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	150
13	The influence of swash infiltration/exfiltration on beach face sediment transport: onshore or offshore?. <i>Coastal Engineering</i> , 2001, 42, 35-52.	1.7	144
14	A generalized equilibrium model for predicting daily to interannual shoreline response. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 1936-1958.	1.0	142
15	Shoreline response to submerged structures: A review. <i>Coastal Engineering</i> , 2006, 53, 65-79.	1.7	129
16	A reevaluation of coastal embayment rotation: The dominance of cross-shore versus alongshore sediment transport processes, Collaroy-Narrabeen Beach, southeast Australia. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	125
17	Forecasting seasonal to multi-year shoreline change. <i>Coastal Engineering</i> , 2010, 57, 620-629.	1.7	121
18	Water table outcropping on macro-tidal beaches: A simulation model. <i>Marine Geology</i> , 1993, 115, 227-238.	0.9	109

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19	Rapid water table fluctuations within the beach face: Implications for swash zone sediment mobility?. Coastal Engineering, 1997, 32, 45-59.	1.7	109
20	The Performance of Shoreline Detection Models Applied to Video Imagery. Journal of Coastal Research, 2007, 233, 658-670.	0.1	89
21	The Interstitial Environment of Sandy Beaches. Marine Ecology, 1994, 15, 177-212.	0.4	86
22	Remote Sensing Is Changing Our View of the Coast: Insights from 40 Years of Monitoring at Narrabeen-Collaroy, Australia. Remote Sensing, 2018, 10, 1744.	1.8	84
23	New insights into embayed beach rotation: The importance of wave exposure and cross-shore processes. Journal of Geophysical Research F: Earth Surface, 2015, 120, 1470-1484.	1.0	83
24	Measurements of the time-varying free-surface profile across the swash zone obtained using an industrial LIDAR. Coastal Engineering, 2010, 57, 1059-1065.	1.7	82
25	Measurement of wave-by-wave bed-levels in the swash zone. Coastal Engineering, 2008, 55, 1237-1242.	1.7	77
26	Net sediment transport and morphological change in the swash zone of a high-energy sandy beach from swash event to tidal cycle time scales. Marine Geology, 2009, 267, 18-35.	0.9	76
27	Swash zone sediment fluxes: Field observations. Coastal Engineering, 2011, 58, 28-44.	1.7	75
28	Simulating the influence of groundwater seepage on sediment transported by the sweep of the swash zone across macro-tidal beaches. Marine Geology, 1995, 125, 153-174.	0.9	74
29	Daily to interannual cross-shore sandbar migration: Observations from a multiple sandbar system. Continental Shelf Research, 2009, 29, 1663-1677.	0.9	74
30	Shoreline recovery on wave-dominated sandy coastlines: the role of sandbar morphodynamics and nearshore wave parameters. Marine Geology, 2017, 385, 146-159.	0.9	73
31	Automatic super-resolution shoreline change monitoring using Landsat archival data: a case study at Narrabeen-Collaroy Beach, Australia. Journal of Applied Remote Sensing, 2017, 11, 016036.	0.6	73
32	Observations of rip spacing, persistence and mobility at a long, straight coastline. Marine Geology, 2007, 236, 209-221.	0.9	69
33	A behavioral template beach profile model for predicting seasonal to interannual shoreline evolution. Journal of Geophysical Research, 2009, 114, .	3.3	68
34	Swash zone sediment transport, step dynamics and morphological response on a gravel beach. Marine Geology, 2010, 274, 50-68.	0.9	67
35	Beach Slopes From Satellite-Derived Shorelines. Geophysical Research Letters, 2020, 47, e2020GL088365.	1.5	67
36	How much data is enough? The importance of morphological sampling interval and duration for calibration of empirical shoreline models. Coastal Engineering, 2013, 77, 14-27.	1.7	64

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37	Annual prediction of shoreline erosion and subsequent recovery. Coastal Engineering, 2017, 130, 14-25.	1.7	64
38	Shoreline response to multi-functional artificial surfing reefs: A numerical and physical modelling study. Coastal Engineering, 2006, 53, 589-611.	1.7	63
39	Coupled and noncoupled behavior of three-dimensional morphological patterns in a double sandbar system. Journal of Geophysical Research, 2007, 112, .	3.3	61
40	Drivers of alongshore variable dune erosion during a storm event: Observations and modelling. Coastal Engineering, 2018, 131, 31-41.	1.7	61
41	Morphodynamics of intermittently open/closed coastal lagoon entrances: New insights and a conceptual model. Marine Geology, 2010, 271, 55-66.	0.9	54
42	The ECORS-Truc Vert™08 nearshore field experiment: presentation of a three-dimensional morphologic system in a macro-tidal environment during consecutive extreme storm conditions. Ocean Dynamics, 2011, 61, 2073-2098.	0.9	53
43	Laboratory investigation of the Bruun Rule and beach response to sea level rise. Coastal Engineering, 2018, 136, 183-202.	1.7	53
44	Wastewater effluents cause microbial community shifts and change trophic status. Water Research, 2021, 200, 117206.	5.3	53
45	Satellite optical imagery in Coastal Engineering. Coastal Engineering, 2021, 167, 103919.	1.7	52
46	Beach nourishments at Coolangatta Bay over the period 1987-2005: Impacts and lessons. Coastal Engineering, 2009, 56, 940-950.	1.7	51
47	Application of LiDAR technology for measurement of time-varying free-surface profiles in a laboratory wave flume. Coastal Engineering, 2012, 68, 1-5.	1.7	51
48	Evaluation of swimmer-based rip current escape strategies. Natural Hazards, 2014, 71, 1821-1846.	1.6	51
49	Recurrent neural network modeling of nearshore sandbar behavior. Neural Networks, 2007, 20, 509-518.	3.3	50
50	Enhanced Coastal Shoreline Modeling Using an Ensemble Kalman Filter to Include Nonstationarity in Future Wave Climates. Geophysical Research Letters, 2020, 47, e2020GL090724.	1.5	49
51	CZM Applications of Argus Coastal Imaging at the Gold Coast, Australia. Journal of Coastal Research, 2004, 203, 739-752.	0.1	44
52	Calibrating and assessing uncertainty in coastal numerical models. Coastal Engineering, 2017, 125, 28-41.	1.7	43
53	Modes of Berm and Beachface Recovery Following Storm Reset: Observations Using a Continuously Scanning Lidar. Journal of Geophysical Research F: Earth Surface, 2019, 124, 720-736.	1.0	43
54	Interannual variability and controls of the Sydney wave climate. International Journal of Climatology, 2010, 30, 1322-1335.	1.5	42

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55	Lagrangian observations of circulation on an embayed beach with headland rip currents. <i>Marine Geology</i> , 2014, 355, 173-188.	0.9	42
56	Bayesian Networks in coastal engineering: Distinguishing descriptive and predictive applications. <i>Coastal Engineering</i> , 2018, 135, 16-30.	1.7	42
57	High frequency in-situ field measurements of morphological response on a fine gravel beach during energetic wave conditions. <i>Marine Geology</i> , 2013, 342, 1-13.	0.9	41
58	Comprehensive Field Study of Swash-Zone Processes. II: Sheet Flow Sediment Concentrations during Quasi-Steady Backwash. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2014, 140, 29-42.	0.5	41
59	Wave runup and overwash on a prototype-scale sand barrier. <i>Coastal Engineering</i> , 2016, 113, 88-103.	1.7	41
60	Coastal Imaging Applications and Research in Australia. <i>Journal of Coastal Research</i> , 2006, 221, 37-48.	0.1	40
61	Barrier dynamics experiment (BARDEX): Aims, design and procedures. <i>Coastal Engineering</i> , 2012, 63, 3-12.	1.7	40
62	Large-scale Barrier Dynamics Experiment II (BARDEX II): Experimental design, instrumentation, test program, and data set. <i>Coastal Engineering</i> , 2016, 113, 3-18.	1.7	40
63	Shoreface storm morphodynamics and mega-rip evolution at an embayed beach: Bondi Beach, NSW, Australia. <i>Continental Shelf Research</i> , 2016, 116, 74-88.	0.9	38
64	The Effects Of Tides And Waves On Water-Table Elevations In Coastal Zones. <i>Hydrogeology Journal</i> , 1996, 4, 51-69.	0.9	36
65	Rapid adjustment of shoreline behavior to changing seasonality of storms: observations and modelling at an open-coast beach. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 1186-1194.	1.2	35
66	Monitoring groundwater dynamics in the littoral zone at seasonal, storm, tide and swash frequencies. <i>Coastal Engineering</i> , 1998, 35, 1-16.	1.7	33
67	Field Measurements of Beachface Salinity Structure using Cross-Borehole Resistivity Imaging. <i>Journal of Coastal Research</i> , 2004, 203, 753-760.	0.1	33
68	Web-based and "real-time" beach management system. <i>Coastal Engineering</i> , 2007, 54, 555-565.	1.7	31
69	Evaluation of Opportunistic Shoreline Monitoring Capability Utilizing Existing "Surfcam" Infrastructure. <i>Journal of Coastal Research</i> , 2016, 32, 542.	0.1	31
70	Large-scale laboratory investigation into the effect of varying back-barrier lagoon water levels on gravel beach morphology and swash zone sediment transport. <i>Coastal Engineering</i> , 2012, 63, 23-38.	1.7	28
71	Beach oscillation and rotation: local and regional response at three beaches in southeast Australia. <i>Journal of Coastal Research</i> , 2014, 70, 712-717.	0.1	28
72	Calibration data requirements for modelling subaerial beach storm erosion. <i>Coastal Engineering</i> , 2019, 152, 103507.	1.7	28

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73	Physical model study of beach profile evolution by sea level rise in the presence of seawalls. Coastal Engineering, 2018, 136, 172-182.	1.7	25
74	Controls of Variability in Berm and Dune Storm Erosion. Journal of Geophysical Research F: Earth Surface, 2019, 124, 2647-2665.	1.0	25
75	Resolution and Accuracy of an Airborne Scanning Laser System for Beach Surveys. Journal of Atmospheric and Oceanic Technology, 2013, 30, 2452-2464.	0.5	24
76	Observations of the swash zone on a gravel beach during a storm using a laser-scanner (Lidar). Journal of Coastal Research, 2013, 65, 636-641.	0.1	24
77	Comprehensive Field Study of Swash-Zone Processes. I: Experimental Design with Examples of Hydrodynamic and Sediment Transport Measurements. Journal of Waterway, Port, Coastal and Ocean Engineering, 2014, 140, 14-28.	0.5	24
78	Groundwater fluxes and flow paths within coastal barriers: Observations from a large-scale laboratory experiment (BARDEX II). Coastal Engineering, 2016, 113, 104-116.	1.7	23
79	A storm hazard matrix combining coastal flooding and beach erosion. Coastal Engineering, 2021, 170, 104001.	1.7	23
80	Examining rip current escape strategies in non-traditional beach morphologies. Natural Hazards, 2016, 81, 145-165.	1.6	22
81	Overwash experiment on a sandy barrier. Journal of Coastal Research, 2013, 65, 778-783.	0.1	21
82	Discriminating Modes of Shoreline Response to Offshore-Detached Structures. Journal of Waterway, Port, Coastal and Ocean Engineering, 2006, 132, 180-191.	0.5	20
83	The effect of temporal wave averaging on the performance of an empirical shoreline evolution model. Coastal Engineering, 2011, 58, 802-805.	1.7	17
84	Capitalizing on the surfcam phenomenon: a pilot study in regional-scale shoreline and inshore wave monitoring utilizing existing camera infrastructure. Journal of Coastal Research, 2013, 165, 1433-1438.	0.1	17
85	Synchronised patterns of erosion and deposition observed at two beaches. Marine Geology, 2016, 380, 196-204.	0.9	17
86	A simple data transformation technique for pre-processing survey data at embayed beaches. Coastal Engineering, 2008, 55, 63-68.	1.7	16
87	GIS-based techniques for assessing the vulnerability of buildings to tsunamis: current approaches and future steps. Geological Society Special Publication, 2012, 361, 115-125.	0.8	16
88	Coastal gravel barrier hydrology " Observations from a prototype-scale laboratory experiment (BARDEX). Coastal Engineering, 2012, 63, 13-22.	1.7	15
89	Beach response to Australian East Coast Lows: A comparison between the 2007 and 2015 events, Narrabeen-Collaroy Beach. Journal of Coastal Research, 2016, 75, 388-392.	0.1	15
90	Rip Current Survival Principles: Towards Consistency. Journal of Coastal Research, 2014, 72, 85-92.	0.1	14

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91	Modelling the time-varying extent of groundwater seepage on tidal beaches. <i>Earth Surface Processes and Landforms</i> , 1995, 20, 833-843.	1.2	13
92	In-situ estimates of net sediment flux per swash: Reply to discussion by TE Baldock of "Measurement of wave-by-wave bed-levels in the swash zone". <i>Coastal Engineering</i> , 2009, 56, 1009-1012.	1.7	13
93	Validation of volume continuity method for estimation of cross-shore swash flow velocity. <i>Coastal Engineering</i> , 2010, 57, 953-958.	1.7	13
94	15 Priorities for Wind-Waves Research: An Australian Perspective. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E446-E461.	1.7	11
95	Bathymetric Data Requirements for Operational Coastal Erosion Forecasting Using XBeach. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 1053.	1.2	11
96	Beach Oscillation, Rotation and the Southern Oscillation, Narrabeen Beach, Australia. , 2001, , 2439.		10
97	A radioisotope tracer investigation to determine the direction of groundwater movement adjacent to a tidal creek during spring and neap tides. <i>Hydrogeology Journal</i> , 2007, 15, 281-296.	0.9	10
98	Environmental signal shredding on sandy coastlines. <i>Earth Surface Dynamics</i> , 2019, 7, 77-86.	1.0	9
99	A new approach for scaling beach profile evolution and sediment transport rates in distorted laboratory models. <i>Coastal Engineering</i> , 2021, 163, 103794.	1.7	9
100	Nearshore SWAN model sensitivities to measured and modelled offshore wave scenarios at an embayed beach compartment, NSW, Australia. <i>Australian Journal of Civil Engineering</i> , 2014, 12, .	0.6	9
101	Predicted and Observed Coastline Changes at the Gold Coast Artificial Reef. , 2001, , 1836.		8
102	Measuring performance: environmental management systems. <i>International Zoo Yearbook</i> , 2009, 43, 82-90.	1.0	8
103	A simple numerical model for inlet sedimentation at intermittently open "closed coastal lagoons. <i>Continental Shelf Research</i> , 2009, 29, 1975-1982.	0.9	8
104	Alongshore fluid motions in the swash zone of a sandy and gravel beach. <i>Coastal Engineering</i> , 2011, 58, 690-705.	1.7	8
105	Coastal sand barrier hydrology " observations from the BARDEX II prototype-scale laboratory experiment. <i>Journal of Coastal Research</i> , 2013, 165, 1886-1891.	0.1	7
106	Direct Measurements of Bed Shear Stress under Swash Flows on Steep Laboratory Slopes at Medium to Prototype Scales. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 358.	1.2	7
107	Surface-groundwater flow numerical model for barrier beach with exfiltration incorporated bottom boundary layer model. <i>Coastal Engineering</i> , 2019, 146, 47-64.	1.7	7
108	Assessing Cross-Shore and Alongshore Variation in Beach Morphology Due to Wave Climate: Storms to Decades. <i>Oceanography</i> , 2017, 30, .	0.5	6

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109	A COMPARISON OF SUB-PIXEL MAPPING METHODS FOR COASTAL AREAS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, III-7, 67-74.	0.0	6
110	MONITORING OF A MULTI FUNCTIONAL SUBMERGED GEOTEXTILE REEF BREAKWATER. , 2003, , .		5
111	Experimental observation of increased apparent dispersion and mixing in a beach aquifer due to wave forcing. Advances in Water Resources, 2018, 119, 245-256.	1.7	5
112	Monitoring data requirements for shoreline prediction: How much, how long, and how often?. Journal of Coastal Research, 2013, 165, 2179-2184.	0.1	4
113	High-resolution, large-scale laboratory measurements of a sandy beach and dynamic cobble berm revetment. Scientific Data, 2021, 8, 22.	2.4	4
114	MODELLING MULTI-DECADAL SHORELINE VARIABILITY AND EVOLUTION. Coastal Engineering Proceedings, 2012, 1, 98.	0.1	4
115	Connecting Users with Their Data: An Environment to Explore the Morphodynamics of Rip Channels. Cartographica, 2007, 42, 139-151.	0.2	3
116	A novel real-world ecotoxicological dataset of pelagic microbial community responses to wastewater. Scientific Data, 2020, 7, 158.	2.4	3
117	Beach-face slope dataset for Australia. Earth System Science Data, 2022, 14, 1345-1357.	3.7	3
118	Coastal Management Guide - Managing Coastal Erosion™: A STEM education resource for secondary school teachers. Continental Shelf Research, 2022, 244, 104783.	0.9	3
119	FIELD MEASUREMENTS OF NET SEDIMENT FLUX FROM INDIVIDUAL SWASHES ON A SANDY BEACH. , 2009, , .		2
120	Can standard energetics models be used to predict net cross-shore sediment flux at the beach face?. Australian Journal of Civil Engineering, 2011, 9, 19-34.	0.6	2
121	ACCESSING THE ACCURACY AND APPLICABILITY OF A MULTI-DECADAL BEACH SURVEY DATASET. , 2007, , .		2
122	GROUNDWATER SEEPAGE BETWEEN A GRAVEL BARRIER BEACH AND A FRESHWATER LAGOON. , 2009, , .		2
123	TIME-SERIES OF SHORELINE CHANGE FROM PUBLICLY AVAILABLE SATELLITE IMAGERY. , 2019, , .		2
124	Evaluation of a Beach Dewatering System: Nantucket, USA. , 1997, , 2677.		1
125	Groundwater Waves and Water Exchange in Beaches. , 2001, , 2356.		1
126	Foam patches behind spilling breakers. Journal of Marine Research, 2011, 69, 843-859.	0.3	1

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127	Coastal erosion mapping through intergration of SAR and Landsat TM imagery. , 2013, , .		1
128	ESTIMATING SHORELINE RESPONSE IN A CHANGING WAVE CLIMATE. Coastal Engineering Proceedings, 2015, 1, 37.	0.1	1
129	Bathymetric controls on very low frequency rip current motions. Journal of Coastal Research, 2016, 75, 418-422.	0.1	1
130	Beach Profile Changes under Sea Level Rise in Laboratory Flume Experiments at Different Scale. Journal of Coastal Research, 2020, 95, 192.	0.1	1
131	FIELD MEASUREMENTS OF SHEET FLOW SEDIMENT TRANSPORT IN THE SWASH ZONE. Coastal Engineering Proceedings, 2012, 1, 78.	0.1	1
132	COMPREHENSIVE STUDY OF SWASH-ZONE HYDRODYNAMICS AND SEDIMENT TRANSPORT. Coastal Engineering Proceedings, 2012, 1, 1.	0.1	1
133	Priorities for Wind-Waves Research. Bulletin of the American Meteorological Society, 2020, 101, 505-507.	1.7	1
134	Experiences with Physical Scale Basin Modelling Using Mobile Sediments. , 2001, , 2928.		0
135	PROCESSES GOVERNING SHORELINE RESPONSE TO SUBMERGED BREAKWATERS: MULTI-FUNCTION STRUCTURES “ A SPECIAL CASE. , 2005, , .		0
136	MONITORING AND MODELLING OF ENTRANCE SEDIMENTATION AT AN INTERMITTENTLY OPEN-CLOSED LAGOON. , 2009, , .		0
137	ROTATION AND OSCILLATION OF AN EMBAYED BEACH. , 2009, , .		0