

# Ian L Turner

## List of Publications by Year in descending order

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137  
papers

7,491  
citations

47006

47  
h-index

56724

83  
g-index

147  
all docs

147  
docs citations

147  
times ranked

3691  
citing authors

#	ARTICLE	IF	CITATIONS
1	Beach-face slope dataset for Australia. <i>Earth System Science Data</i> , 2022, 14, 1345-1357.	9.9	3
2	“Coastal Management Guide - Managing Coastal Erosion”: A STEM education resource for secondary school teachers. <i>Continental Shelf Research</i> , 2022, 244, 104783.	1.8	3
3	A new approach for scaling beach profile evolution and sediment transport rates in distorted laboratory models. <i>Coastal Engineering</i> , 2021, 163, 103794.	4.0	9
4	High-resolution, large-scale laboratory measurements of a sandy beach and dynamic cobble berm revetment. <i>Scientific Data</i> , 2021, 8, 22.	5.3	4
5	Wastewater effluents cause microbial community shifts and change trophic status. <i>Water Research</i> , 2021, 200, 117206.	11.3	53
6	Satellite optical imagery in Coastal Engineering. <i>Coastal Engineering</i> , 2021, 167, 103919.	4.0	52
7	Bathymetric Data Requirements for Operational Coastal Erosion Forecasting Using XBeach. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 1053.	2.6	11
8	A storm hazard matrix combining coastal flooding and beach erosion. <i>Coastal Engineering</i> , 2021, 170, 104001.	4.0	23
9	15 Priorities for Wind-Waves Research: An Australian Perspective. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E446-E461.	3.3	11
10	A novel real-world ecotoxicological dataset of pelagic microbial community responses to wastewater. <i>Scientific Data</i> , 2020, 7, 158.	5.3	3
11	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
12	Beach Slopes From Satellite-Derived Shorelines. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088365.	4.0	67
13	Beach Profile Changes under Sea Level Rise in Laboratory Flume Experiments at Different Scale. <i>Journal of Coastal Research</i> , 2020, 95, 192.	0.3	1
14	Priorities for Wind-Waves Research. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, 505-507.	3.3	1
15	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
16	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.	2.6	7
17	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
18	Environmental signal shredding on sandy coastlines. <i>Earth Surface Dynamics</i> , 2019, 7, 77-86.	2.4	9

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19	Calibration data requirements for modelling subaerial beach storm erosion. Coastal Engineering, 2019, 152, 103507.	4.0	28
20	Sub-annual to multi-decadal shoreline variability from publicly available satellite imagery. Coastal Engineering, 2019, 150, 160-174.	4.0	213
21	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.	2.8	43
22	Surface-groundwater flow numerical model for barrier beach with exfiltration incorporated bottom boundary layer model. Coastal Engineering, 2019, 146, 47-64.	4.0	7
23	TIME-SERIES OF SHORELINE CHANGE FROM PUBLICLY AVAILABLE SATELLITE IMAGERY. , 2019, , .		2
24	Physical model study of beach profile evolution by sea level rise in the presence of seawalls. Coastal Engineering, 2018, 136, 172-182.	4.0	25
25	Bayesian Networks in coastal engineering: Distinguishing descriptive and predictive applications. Coastal Engineering, 2018, 135, 16-30.	4.0	42
26	Laboratory investigation of the Bruun Rule and beach response to sea level rise. Coastal Engineering, 2018, 136, 183-202.	4.0	53
27	Drivers of alongshore variable dune erosion during a storm event: Observations and modelling. Coastal Engineering, 2018, 131, 31-41.	4.0	61
28	Remote Sensing Is Changing Our View of the Coast: Insights from 40 Years of Monitoring at Narrabeen-Collaroy, Australia. Remote Sensing, 2018, 10, 1744.	4.0	84
29	Experimental observation of increased apparent dispersion and mixing in a beach aquifer due to wave forcing. Advances in Water Resources, 2018, 119, 245-256.	3.8	5
30	Shoreline recovery on wave-dominated sandy coastlines: the role of sandbar morphodynamics and nearshore wave parameters. Marine Geology, 2017, 385, 146-159.	2.1	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.	1.3	73
32	Calibrating and assessing uncertainty in coastal numerical models. Coastal Engineering, 2017, 125, 28-41.	4.0	43
33	Rapid adjustment of shoreline behavior to changing seasonality of storms: observations and modelling at an open-coast beach. Earth Surface Processes and Landforms, 2017, 42, 1186-1194.	2.5	35
34	Annual prediction of shoreline erosion and subsequent recovery. Coastal Engineering, 2017, 130, 14-25.	4.0	64
35	Extreme coastal erosion enhanced by anomalous extratropical storm wave direction. Scientific Reports, 2017, 7, 6033.	3.3	159
36	Assessing Cross-Shore and Alongshore Variation in Beach Morphology Due to Wave Climate: Storms to Decades. Oceanography, 2017, 30, .	1.0	6

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37	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
38	UAVs for coastal surveying. <i>Coastal Engineering</i> , 2016, 114, 19-24.	4.0	325
39	Synchronised patterns of erosion and deposition observed at two beaches. <i>Marine Geology</i> , 2016, 380, 196-204.	2.1	17
40	Bathymetric controls on very low frequency rip current motions. <i>Journal of Coastal Research</i> , 2016, 75, 418-422.	0.3	1
41	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
42	Examining rip current escape strategies in non-traditional beach morphologies. <i>Natural Hazards</i> , 2016, 81, 145-165.	3.4	22
43	Large-scale Barrier Dynamics Experiment II (BARDEX II): Experimental design, instrumentation, test program, and data set. <i>Coastal Engineering</i> , 2016, 113, 3-18.	4.0	40
44	Wave runup and overwash on a prototype-scale sand barrier. <i>Coastal Engineering</i> , 2016, 113, 88-103.	4.0	41
45	Shoreface storm morphodynamics and mega-rip evolution at an embayed beach: Bondi Beach, NSW, Australia. <i>Continental Shelf Research</i> , 2016, 116, 74-88.	1.8	38
46	Groundwater fluxes and flow paths within coastal barriers: Observations from a large-scale laboratory experiment (BARDEX II). <i>Coastal Engineering</i> , 2016, 113, 104-116.	4.0	23
47	Evaluation of Opportunistic Shoreline Monitoring Capability Utilizing Existing "Surfcams" Infrastructure. <i>Journal of Coastal Research</i> , 2016, 32, 542.	0.3	31
48	ESTIMATING SHORELINE RESPONSE IN A CHANGING WAVE CLIMATE. <i>Coastal Engineering Proceedings</i> , 2015, 1, 37.	0.1	1
49	Coastal vulnerability across the Pacific dominated by El Niño/Southern Oscillation. <i>Nature Geoscience</i> , 2015, 8, 801-807.	12.9	279
50	New insights into embayed beach rotation: The importance of wave exposure and cross-shore processes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 1470-1484.	2.8	83
51	Rip Current Survival Principles: Towards Consistency. <i>Journal of Coastal Research</i> , 2014, 72, 85-92.	0.3	14
52	Beach oscillation and rotation: local and regional response at three beaches in southeast Australia. <i>Journal of Coastal Research</i> , 2014, 70, 712-717.	0.3	28
53	Evaluation of swimmer-based rip current escape strategies. <i>Natural Hazards</i> , 2014, 71, 1821-1846.	3.4	51
54	Comprehensive Field Study of Swash-Zone Processes. I: Experimental Design with Examples of Hydrodynamic and Sediment Transport Measurements. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2014, 140, 14-28.	1.2	24

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55	Comprehensive Field Study of Swash-Zone Processes. II: Sheet Flow Sediment Concentrations during Quasi-Steady Backwash. Journal of Waterway, Port, Coastal and Ocean Engineering, 2014, 140, 29-42.	1.2	41
56	Lagrangian observations of circulation on an embayed beach with headland rip currents. Marine Geology, 2014, 355, 173-188.	2.1	42
57	A generalized equilibrium model for predicting daily to interannual shoreline response. Journal of Geophysical Research F: Earth Surface, 2014, 119, 1936-1958.	2.8	142
58	Nearshore SWAN model sensitivities to measured and modelled offshore wave scenarios at an embayed beach compartment, NSW, Australia. Australian Journal of Civil Engineering, 2014, 12, .	1.6	9
59	A simple equilibrium model for predicting shoreline change. Coastal Engineering, 2013, 73, 191-202.	4.0	179
60	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.	4.0	64
61	High frequency in-situ field measurements of morphological response on a fine gravel beach during energetic wave conditions. Marine Geology, 2013, 342, 1-13.	2.1	41
62	Resolution and Accuracy of an Airborne Scanning Laser System for Beach Surveys. Journal of Atmospheric and Oceanic Technology, 2013, 30, 2452-2464.	1.3	24
63	Coastal erosion mapping through intergration of SAR and Landsat TM imagery. , 2013, , .		1
64	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.	0.3	24
65	Coastal sand barrier hydrology “ observations from the BARDEX II prototype-scale laboratory experiment. Journal of Coastal Research, 2013, 165, 1886-1891.	0.3	7
66	Overwash experiment on a sandy barrier. Journal of Coastal Research, 2013, 65, 778-783.	0.3	21
67	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.	0.3	17
68	Monitoring data requirements for shoreline prediction: How much, how long, and how often?. Journal of Coastal Research, 2013, 165, 2179-2184.	0.3	4
69	GIS-based techniques for assessing the vulnerability of buildings to tsunami: current approaches and future steps. Geological Society Special Publication, 2012, 361, 115-125.	1.3	16
70	Large-scale laboratory investigation into the effect of varying back-barrier lagoon water levels on gravel beach morphology and swash zone sediment transport. Coastal Engineering, 2012, 63, 23-38.	4.0	28
71	Coastal gravel barrier hydrology “ Observations from a prototype-scale laboratory experiment (BARDEX). Coastal Engineering, 2012, 63, 13-22.	4.0	15
72	Barrier dynamics experiment (BARDEX): Aims, design and procedures. Coastal Engineering, 2012, 63, 3-12.	4.0	40

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73	Application of LiDAR technology for measurement of time-varying free-surface profiles in a laboratory wave flume. Coastal Engineering, 2012, 68, 1-5.	4.0	51
74	MODELLING MULTI-DECADAL SHORELINE VARIABILITY AND EVOLUTION. Coastal Engineering Proceedings, 2012, 1, 98.	0.1	4
75	FIELD MEASUREMENTS OF SHEET FLOW SEDIMENT TRANSPORT IN THE SWASH ZONE. Coastal Engineering Proceedings, 2012, 1, 78.	0.1	1
76	COMPREHENSIVE STUDY OF SWASH-ZONE HYDRODYNAMICS AND SEDIMENT TRANSPORT. Coastal Engineering Proceedings, 2012, 1, 1.	0.1	1
77	A reevaluation of coastal embayment rotation: The dominance of cross-shore versus alongshore sediment transport processes, Collaroy-Narrabeen Beach, southeast Australia. Journal of Geophysical Research, 2011, 116, .	3.3	125
78	Foam patches behind spilling breakers. Journal of Marine Research, 2011, 69, 843-859.	0.3	1
79	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.	1.6	2
80	The ECORS-Truc Vert <sup>TM</sup> 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.	2.2	53
81	Swash zone sediment fluxes: Field observations. Coastal Engineering, 2011, 58, 28-44.	4.0	75
82	Assessment and integration of conventional, RTK-GPS and image-derived beach survey methods for daily to decadal coastal monitoring. Coastal Engineering, 2011, 58, 194-205.	4.0	153
83	Alongshore fluid motions in the swash zone of a sandy and gravel beach. Coastal Engineering, 2011, 58, 690-705.	4.0	8
84	The effect of temporal wave averaging on the performance of an empirical shoreline evolution model. Coastal Engineering, 2011, 58, 802-805.	4.0	17
85	Interannual variability and controls of the Sydney wave climate. International Journal of Climatology, 2010, 30, 1322-1335.	3.5	42
86	Measurements of the time-varying free-surface profile across the swash zone obtained using an industrial LIDAR. Coastal Engineering, 2010, 57, 1059-1065.	4.0	82
87	Morphodynamics of intermittently openâ€“closed coastal lagoon entrances: New insights and a conceptual model. Marine Geology, 2010, 271, 55-66.	2.1	54
88	Swash zone sediment transport, step dynamics and morphological response on a gravel beach. Marine Geology, 2010, 274, 50-68.	2.1	67
89	Validation of volume continuity method for estimation of cross-shore swash flow velocity. Coastal Engineering, 2010, 57, 953-958.	4.0	13
90	Forecasting seasonal to multi-year shoreline change. Coastal Engineering, 2010, 57, 620-629.	4.0	121

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91	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.	2.1	76
92	Measuring performance: environmental management systems. International Zoo Yearbook, 2009, 43, 82-90.	0.9	8
93	Beach nourishments at Coolangatta Bay over the period 1987â€”2005: Impacts and lessons. Coastal Engineering, 2009, 56, 940-950.	4.0	51
94	In-situ estimates of net sediment flux per swash: Reply to discussion by TE Baldock of â€œMeasurement of wave-by-wave bed-levels in the swash zoneâ€• Coastal Engineering, 2009, 56, 1009-1012.	4.0	13
95	A simple numerical model for inlet sedimentation at intermittently openâ€”closed coastal lagoons. Continental Shelf Research, 2009, 29, 1975-1982.	1.8	8
96	Daily to interannual cross-shore sandbar migration: Observations from a multiple sandbar system. Continental Shelf Research, 2009, 29, 1663-1677.	1.8	74
97	A behavioral template beach profile model for predicting seasonal to interannual shoreline evolution. Journal of Geophysical Research, 2009, 114, .	3.3	68
98	<b>27.</b> FIELD MEASUREMENTS OF NET SEDIMENT FLUX FROM INDIVIDUAL SWASHES ON A SANDY BEACH. , 2009, , .		2
99	MONITORING AND MODELLING OF ENTRANCE SEDIMENTATION AT AN INTERMITTENTLY OPEN-CLOSED LAGOON. , 2009, , .		0
100	ROTATION AND OSCILLATION OF AN EMBAYED BEACH. , 2009, , .		0
101	GROUNDWATER SEEPAGE BETWEEN A GRAVEL BARRIER BEACH AND A FRESHWATER LAGOON. , 2009, , .		2
102	Measurement of wave-by-wave bed-levels in the swash zone. Coastal Engineering, 2008, 55, 1237-1242.	4.0	77
103	A simple data transformation technique for pre-processing survey data at embayed beaches. Coastal Engineering, 2008, 55, 63-68.	4.0	16
104	The Performance of Shoreline Detection Models Applied to Video Imagery. Journal of Coastal Research, 2007, 233, 658-670.	0.3	89
105	Connecting Users with Their Data: An Environment to Explore the Morphodynamics of Rip Channels. Cartographica, 2007, 42, 139-151.	0.4	3
106	Coupled and noncoupled behavior of threeâ€”dimensional morphological patterns in a double sandbar system. Journal of Geophysical Research, 2007, 112, .	3.3	61
107	Web-based and â€œreal-timeâ€™ beach management system. Coastal Engineering, 2007, 54, 555-565.	4.0	31
108	Recurrent neural network modeling of nearshore sandbar behavior. Neural Networks, 2007, 20, 509-518.	5.9	50

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109	A radioisotope tracer investigation to determine the direction of groundwater movement adjacent to a tidal creek during spring and neap tides. Hydrogeology Journal, 2007, 15, 281-296.	2.1	10
110	Observations of rip spacing, persistence and mobility at a long, straight coastline. Marine Geology, 2007, 236, 209-221.	2.1	69
111	ACCESSING THE ACCURACY AND APPLICABILITY OF A MULTI-DECADAL BEACH SURVEY DATASET. , 2007, , .		2
112	Coastal Imaging Applications and Research in Australia. Journal of Coastal Research, 2006, 221, 37-48.	0.3	40
113	Shoreline response to multi-functional artificial surfing reefs: A numerical and physical modelling study. Coastal Engineering, 2006, 53, 589-611.	4.0	63
114	Shoreline response to submerged structures: A review. Coastal Engineering, 2006, 53, 65-79.	4.0	129
115	Discriminating Modes of Shoreline Response to Offshore-Detached Structures. Journal of Waterway, Port, Coastal and Ocean Engineering, 2006, 132, 180-191.	1.2	20
116	Shoreline Definition and Detection: A Review. Journal of Coastal Research, 2005, 214, 688-703.	0.3	902
117	PROCESSES GOVERNING SHORELINE RESPONSE TO SUBMERGED BREAKWATERS: MULTI-FUNCTION STRUCTURES “ A SPECIAL CASE. , 2005, , .		0
118	CZM Applications of Argus Coastal Imaging at the Gold Coast, Australia. Journal of Coastal Research, 2004, 203, 739-752.	0.3	44
119	Field Measurements of Beachface Salinity Structure using Cross-Borehole Resistivity Imaging. Journal of Coastal Research, 2004, 203, 753-760.	0.3	33
120	Observations of nearshore crescentic sandbars. Journal of Geophysical Research, 2004, 109, .	3.3	150
121	A video-based technique for mapping intertidal beach bathymetry. Coastal Engineering, 2003, 49, 275-289.	4.0	216
122	MONITORING OF A MULTI FUNCTIONAL SUBMERGED GEOTEXTILE REEF BREAKWATER. , 2003, , .		5
123	Experiences with Physical Scale Basin Modelling Using Mobile Sediments. , 2001, , 2928.		0
124	The influence of swash infiltration“exfiltration on beach face sediment transport: onshore or offshore?. Coastal Engineering, 2001, 42, 35-52.	4.0	144
125	Groundwater Waves and Water Exchange in Beaches. , 2001, , 2356.		1
126	Beach Oscillation, Rotation and the Southern Oscillation, Narrabeen Beach, Australia. , 2001, , 2439.		10



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127	Predicted and Observed Coastline Changes at the Gold Coast Artificial Reef. , 2001, , 1836.		8
128	Monitoring groundwater dynamics in the littoral zone at seasonal, storm, tide and swash frequencies. Coastal Engineering, 1998, 35, 1-16.	4.0	33
129	Swash infiltration-exfiltration and sediment transport. Journal of Geophysical Research, 1998, 103, 30813-30824.	3.3	183
130	Evaluation of a Beach Dewatering System: Nantucket, USA. , 1997, , 2677.		1
131	Rapid water table fluctuations within the beach face: Implications for swash zone sediment mobility?. Coastal Engineering, 1997, 32, 45-59.	4.0	109
132	The Effects Of Tides And Waves On Water-Table Elevations In Coastal Zones. Hydrogeology Journal, 1996, 4, 51-69.	2.1	36
133	Modelling the time-varying extent of groundwater seepage on tidal beaches. Earth Surface Processes and Landforms, 1995, 20, 833-843.	2.5	13
134	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.	2.1	74
135	The Interstitial Environment of Sandy Beaches. Marine Ecology, 1994, 15, 177-212.	1.1	86
136	Water table outcropping on macro-tidal beaches: A simulation model. Marine Geology, 1993, 115, 227-238.	2.1	109
137	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