

# Ryan Mulligan

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

921  
citations

394286  
19  
h-index

526166  
27  
g-index

63  
all docs

63  
docs citations

63  
times ranked

934  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling surface waves and tide–surge interactions leading to enhanced total water levels in a macrotidal bay. <i>Coastal Engineering Journal</i> , 2022, 64, 24-41.	0.7	4
2	Tidal dynamics in palaeo–seas in response to changes in physiography, tidal forcing and bed shear stress. <i>Sedimentology</i> , 2022, 69, 1861-1890.	1.6	11
3	An automatic lake-model application using near-real-time data forcing: development of an operational forecast workflow (COASTLINES) for Lake Erie. <i>Geoscientific Model Development</i> , 2022, 15, 1331-1353.	1.3	4
4	Hurricane wind-driven surface waves on a narrow continental shelf and exposed coast. <i>Continental Shelf Research</i> , 2022, 237, 104681.	0.9	4
5	Thank You to Our 2021 Reviewers. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	0
6	Numerical simulation of impulse wave generation by idealized landslides with OpenFOAM. <i>Coastal Engineering</i> , 2021, 165, 103815.	1.7	24
7	Influence of Hurricane Wind Field Variability on Real–Time Forecast Simulations of the Coastal Environment. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, .	1.0	13
8	Three-Dimensional Hydrodynamic Behavior of an Operational Waste-Stabilization Pond. <i>Journal of Environmental Engineering, ASCE</i> , 2021, 147, .	0.7	8
9	Thank You to Our 2020 Reviewers. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017288.	1.0	0
10	An efficient two-layer landslide-tsunami numerical model: effects of momentum transfer validated with physical experiments of waves generated by granular landslides. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 1229-1245.	1.5	4
11	Temperature Stratification in an Operational Waste-Stabilization Pond. <i>Journal of Environmental Engineering, ASCE</i> , 2021, 147, .	0.7	3
12	Numerical modelling of alongshore variability in waves and wave-driven currents during the morphodynamic change of a laboratory beach. <i>Coastal Engineering</i> , 2021, 167, 103913.	1.7	4
13	Impacts of Hurricane Winds and Precipitation on Hydrodynamics in a Back–Barrier Estuary. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016483.	1.0	4
14	Simulations of Landslide Wave Generation and Propagation Using the Particle Finite Element Method. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015873.	1.0	36
15	A three-dimensional laboratory investigation of beach morphology change during a storm event. <i>Geomorphology</i> , 2020, 363, 107224.	1.1	5
16	Wave Generation Across a Continuum of Landslide Conditions From the Collapse of Partially Submerged to Fully Submerged Granular Columns. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016465.	1.0	18
17	Non-Hydrostatic Modeling of Waves Generated by Landslides with Different Mobility. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 266.	1.2	3
18	Experimental analysis of tsunamis generated by the impact of landslides with high mobility. <i>Coastal Engineering</i> , 2019, 152, 103538.	1.7	35

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19	Circulation and structure of the Mackenzie River plume in the coastal Arctic Ocean. <i>Continental Shelf Research</i> , 2019, 177, 59-68.	0.9	18
20	Non-hydrostatic numerical modelling of nearshore wave transformation over shore-oblique sandbars. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 219, 151-160.	0.9	6
21	Estuarine Responses to Long-Term Changes in Inlets, Morphology, and Sea Level Rise. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 9235-9257.	1.0	13
22	Modelling the transport of shipborne per- and polyfluoroalkyl substances (PFAS) in the coastal environment. <i>Science of the Total Environment</i> , 2019, 658, 602-613.	3.9	15
23	An Enhanced Framework to Quantify the Shape of Impulse Waves Using Asymmetry. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 652-666.	1.0	13
24	Wind-wave and Tidally Driven Sediment Resuspension in a Macrotidal Basin. <i>Estuaries and Coasts</i> , 2019, 42, 641-654.	1.0	10
25	NUMERICAL MODELLING OF STORM-DRIVEN SEDIMENT TRANSPORT IN CURRITUCK SOUND, NC., 2019, , .		1
26	A numerical model investigation of the impacts of Hurricane Sandy on water level variability in Great South Bay, New York. <i>Continental Shelf Research</i> , 2018, 161, 1-11.	0.9	15
27	Barrier Island and Estuary Co-evolution in Response to Holocene Climate and Sea-Level Change: Pamlico Sound and the Outer Banks Barrier Islands, North Carolina, USA., 2018, , 91-120.		18
28	Extended late Holocene relative sea-level histories for North Carolina, USA. <i>Quaternary Science Reviews</i> , 2017, 160, 13-30.	1.4	37
29	On the transfer of momentum from a granular landslide to a water wave. <i>Coastal Engineering</i> , 2017, 125, 16-22.	1.7	45
30	Evaluation of surface wind fields for prediction of directional ocean wave spectra during Hurricane Sandy. <i>Coastal Engineering</i> , 2017, 125, 1-15.	1.7	19
31	Evaluation of XBeach performance for the erosion of a laboratory sand dune. <i>Coastal Engineering</i> , 2017, 125, 70-80.	1.7	23
32	Modeling hydrodynamics of large lagoons: Insights from the Albemarle-Pamlico Estuarine System. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 189, 90-103.	0.9	17
33	Tsunamis generated by long and thin granular landslides in a large flume. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 653-668.	1.0	55
34	Temporal and Spatial Dynamics of Estuarine Shoreline Change in the Albemarle-Pamlico Estuarine System, North Carolina, USA. <i>Estuaries and Coasts</i> , 2017, 40, 741-757.	1.0	23
35	Application of a Spectral Wave Model to Assess Breakwater Configurations at a Small Craft Harbour on Lake Ontario. <i>Journal of Marine Science and Engineering</i> , 2016, 4, 46.	1.2	7
36	Application and validation of a three-dimensional hydrodynamic model of a macrotidal salt marsh. <i>Coastal Engineering</i> , 2016, 114, 35-46.	1.7	30

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37	Bathymetric control on the spatial distribution of wave breaking in the surf zone of a natural beach. Coastal Engineering, 2016, 116, 180-194.	1.7	28
38	Alongshore momentum transfer to the nearshore zone from energetic ocean waves generated by passing hurricanes. Journal of Geophysical Research: Oceans, 2016, 121, 4178-4193.	1.0	9
39	Controls on the stratigraphic framework and paleoenvironmental change within a Holocene estuarine system: Pamlico Sound, North Carolina, USA. Marine Geology, 2016, 379, 109-123.	0.9	27
40	Variability in suspended sediment concentration in the Minas Basin, Bay of Fundy, and implications for changes due to tidal power extraction. Coastal Engineering, 2016, 107, 102-115.	1.7	26
41	Transport and transformation of dissolved organic matter in the Neuse River estuarine system, NC, USA, following Hurricane Irene (2011). Marine and Freshwater Research, 2016, 67, 1313.	0.7	7
42	Late Holocene Evolution of Currituck Sound, North Carolina, USA: Environmental Change Driven by Sea-Level Rise, Storms, and Barrier Island Morphology. Journal of Coastal Research, 2015, 31, 827.	0.1	15
43	Storm Surge and Surface Waves in a Shallow Lagoonal Estuary during the Crossing of a Hurricane. Journal of Waterway, Port, Coastal and Ocean Engineering, 2015, 141, .	0.5	30
44	SEDIMENT DYNAMICS AND MORPHOLOGICAL EVOLUTION OF A LARGE BACK-BARRIER ESTUARY. , 2015, , .		1
45	Characterization and Utilization of Coconut Fibers of the Caribbean. Materials Research Society Symposia Proceedings, 2014, 1611, 95-104.	0.1	2
46	Modeling the transport of freshwater and dissolved organic carbon in the Neuse River Estuary, NC, USA following Hurricane Irene (2011). Estuarine, Coastal and Shelf Science, 2014, 139, 148-158.	0.9	43
47	Modeling surface waves and wind-driven circulation in eastern Lake Ontario during winter storms. Journal of Great Lakes Research, 2014, 40, 130-142.	0.8	13
48	Seasonal variability of total suspended matter in Minas Basin, Bay of Fundy. Estuarine, Coastal and Shelf Science, 2014, 151, 169-180.	0.9	10
49	Offshore wind farm impacts on surface waves and circulation in Eastern Lake Ontario. Coastal Engineering, 2014, 93, 32-39.	1.7	22
50	Examining Material Transport in Dynamic Coastal Environments: An Integrated Approach Using Field Data, Remote Sensing and Numerical Modeling. Coastal Research Library, 2014, , 333-364.	0.2	1
51	Performance of Nowcast and Forecast Wave Models for Lunenburg Bay, Nova Scotia. Atmosphere - Ocean, 2011, 49, 1-7.	0.6	10
52	Observations of wave breaking and surf zone width from a real-time cross-shore array of wave and current sensors at Duck, NC. , 2011, , .		4
53	Sea-level rise and local tidal range changes in coastal embayments: An added complexity in developing reliable sea-level index points. Journal of Integrated Coastal Zone Management, 2011, 11, 307-314.	0.2	16
54	Dynamics of the Mackenzie River plume on the inner Beaufort shelf during an open water period in summer. Estuarine, Coastal and Shelf Science, 2010, 89, 214-220.	0.9	37

#	ARTICLE	IF	CITATIONS
55	A wave-driven jet over a rocky shoal. Journal of Geophysical Research, 2010, 115, .	3.3	18
56	Whitecapping and wave field evolution in a coastal bay. Journal of Geophysical Research, 2008, 113, .	3.3	28
57	Wave-driven circulation in a coastal bay during the landfall of a hurricane. Journal of Geophysical Research, 2008, 113, .	3.3	28
58	A NEW FIELD EXERCISE FOR EXPERIENTIAL LEARNING IN COASTAL ENGINEERING. Proceedings of the Canadian Engineering Education Association (CEEA), 0, .	0.2	0