# Ryan Mulligan

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3641128/publications.pdf

Version: 2024-02-01

| 58 | 921 | 394286 | 526166 |
|---|---|---|---|
| papers | citations | 19 | 27 |
| | | h-index | g-index |

| 63 | 63 | 63 | 934 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Tsunamis generated by long and thin granular landslides in a large flume. Journal of Geophysical Research: Oceans, 2017, 122, 653-668. | 1.0 | 55 |
| 2 | On the transfer of momentum from a granular landslide to a water wave. Coastal Engineering, 2017, 125, 16-22. | 1.7 | 45 |
| 3 | 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 |
| 4 | 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 |
| 5 | Extended late Holocene relative sea-level histories for North Carolina, USA. Quaternary Science Reviews, 2017, 160, 13-30. | 1.4 | 37 |
| 6 | Simulations of Landslide Wave Generation and Propagation Using the Particle Finite Element Method. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015873. | 1.0 | 36 |
| 7 | Experimental analysis of tsunamis generated by the impact of landslides with high mobility. Coastal Engineering, 2019, 152, 103538. | 1.7 | 35 |
| 8 | 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 |
| 9 | Application and validation of a three-dimensional hydrodynamic model of a macrotidal salt marsh. Coastal Engineering, 2016, 114, 35-46. | 1.7 | 30 |
| 10 | Whitecapping and wave field evolution in a coastal bay. Journal of Geophysical Research, 2008, 113, . | 3.3 | 28 |
| 11 | Waveâ€driven circulation in a coastal bay during the landfall of a hurricane. Journal of Geophysical Research, 2008, 113, . | 3.3 | 28 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | Numerical simulation of impulse wave generation by idealized landslides with OpenFOAM. Coastal Engineering, 2021, 165, 103815. | 1.7 | 24 |
| 16 | Evaluation of XBeach performance for the erosion of a laboratory sand dune. Coastal Engineering, 2017, 125, 70-80. | 1.7 | 23 |
| 17 | Temporal and Spatial Dynamics of Estuarine Shoreline Change in the Albemarle-Pamlico Estuarine System, North Carolina, USA. Estuaries and Coasts, 2017, 40, 741-757. | 1.0 | 23 |
| 18 | Offshore wind farm impacts on surface waves and circulation in Eastern Lake Ontario. Coastal Engineering, 2014, 93, 32-39. | 1.7 | 22 |

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|---|---|---|---|
| 19 | Evaluation of surface wind fields for prediction of directional ocean wave spectra during Hurricane Sandy. Coastal Engineering, 2017, 125, 1-15. | 1.7 | 19 |
| 20 | A waveâ€driven jet over a rocky shoal. Journal of Geophysical Research, 2010, 115, . | 3.3 | 18 |
| 21 | Circulation and structure of the Mackenzie River plume in the coastal Arctic Ocean. Continental Shelf Research, 2019, 177, 59-68. | 0.9 | 18 |
| 22 | Barrier Island and Estuary Co-evolution in Response to Holocene Climate and Sea-Level Change: Pamlico Sound and theÂOuter Banks Barrier Islands, North Carolina, USA. , 2018, , 91-120. | | 18 |
| 23 | Wave Generation Across a Continuum of Landslide Conditions From the Collapse of Partially Submerged to Fully Submerged Granular Columns. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016465. | 1.0 | 18 |
| 24 | Modeling hydrodynamics of large lagoons: Insights from the Albemarle-Pamlico Estuarine System. Estuarine, Coastal and Shelf Science, 2017, 189, 90-103. | 0.9 | 17 |
| 25 | 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 |
| 26 | 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 |
| 27 | A numerical model investigation of the impacts of Hurricane Sandy on water level variability in Great South Bay, New York. Continental Shelf Research, 2018, 161, 1-11. | 0.9 | 15 |
| 28 | Modelling the transport of shipborne per- and polyfluoroalkyl substances (PFAS) in the coastal environment. Science of the Total Environment, 2019, 658, 602-613. | 3.9 | 15 |
| 29 | 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 |
| 30 | Estuarine Responses to Longâ€Term Changes in Inlets, Morphology, and Sea Level Rise. Journal of Geophysical Research: Oceans, 2019, 124, 9235-9257. | 1.0 | 13 |
| 31 | An Enhanced Framework to Quantify the Shape of Impulse Waves Using Asymmetry. Journal of Geophysical Research: Oceans, 2019, 124, 652-666. | 1.0 | 13 |
| 32 | Influence of Hurricane Wind Field Variability on Realâ€Time Forecast Simulations of the Coastal Environment. Journal of Geophysical Research: Oceans, 2021, 126, . | 1.0 | 13 |
| 33 | Tidal dynamics in palaeoâ€seas in response to changes in physiography, tidal forcing and bed shear stress. Sedimentology, 2022, 69, 1861-1890. | 1.6 | 11 |
| 34 | Performance of Nowcast and Forecast Wave Models for Lunenburg Bay, Nova Scotia. Atmosphere - Ocean, 2011, 49, 1-7. | 0.6 | 10 |
| 35 | Seasonal variability of total suspended matter in Minas Basin, Bay of Fundy. Estuarine, Coastal and Shelf Science, 2014, 151, 169-180. | 0.9 | 10 |
| 36 | Wind-wave and Tidally Driven Sediment Resuspension in a Macrotidal Basin. Estuaries and Coasts, 2019, 42, 641-654. | 1.0 | 10 |

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|---|---|---|---|
| 37 | 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 |
| 38 | Three-Dimensional Hydrodynamic Behavior of an Operational Waste-Stabilization Pond. Journal of Environmental Engineering, ASCE, 2021, 147, . | 0.7 | 8 |
| 39 | Application of a Spectral Wave Model to Assess Breakwater Configurations at a Small Craft Harbour on Lake Ontario. Journal of Marine Science and Engineering, 2016, 4, 46. | 1.2 | 7 |
| 40 | 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 |
| 41 | Non-hydrostatic numerical modelling of nearshore wave transformation over shore-oblique sandbars. Estuarine, Coastal and Shelf Science, 2019, 219, 151-160. | 0.9 | 6 |
| 42 | A three-dimensional laboratory investigation of beach morphology change during a storm event. Geomorphology, 2020, 363, 107224. | 1.1 | 5 |
| 43 | 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 |
| 44 | Impacts of Hurricane Winds and Precipitation on Hydrodynamics in a Backâ€Barrier Estuary. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016483. | 1.0 | 4 |
| 45 | An efficient two-layer landslide-tsunami numerical model: effects of momentum transfer validated with physical experiments of waves generated by granular landslides. Natural Hazards and Earth System Sciences, 2021, 21, 1229-1245. | 1.5 | 4 |
| 46 | Modeling surface waves and tideâ€“surge interactions leading to enhanced total water levels in a macrotidal bay. Coastal Engineering Journal, 2022, 64, 24-41. | 0.7 | 4 |
| 47 | Numerical modelling of alongshore variability in waves and wave-driven currents during the morphodynamic change of a laboratory beach. Coastal Engineering, 2021, 167, 103913. | 1.7 | 4 |
| 48 | An automatic lake-model application using near-real-time data forcing: development of an operational forecast workflow (COASTLINES) for Lake Erie. Geoscientific Model Development, 2022, 15, 1331-1353. | 1.3 | 4 |
| 49 | Hurricane wind-driven surface waves on a narrow continental shelf and exposed coast. Continental Shelf Research, 2022, 237, 104681. | 0.9 | 4 |
| 50 | Non-Hydrostatic Modeling of Waves Generated by Landslides with Different Mobility. Journal of Marine Science and Engineering, 2019, 7, 266. | 1.2 | 3 |
| 51 | Temperature Stratification in an Operational Waste-Stabilization Pond. Journal of Environmental Engineering, ASCE, 2021, 147, . | 0.7 | 3 |
| 52 | Characterization and Utilization of Coconut Fibers of the Caribbean. Materials Research Society Symposia Proceedings, 2014, 1611, 95-104. | 0.1 | 2 |
| 53 | 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 |
| 54 | NUMERICAL MODELLING OF STORM-DRIVEN SEDIMENT TRANSPORT IN CURRITUCK SOUND, NC. , 2019, , . | | 1 |

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|---|---|---|---|
| 55 | SEDIMENT DYNAMICS AND MORPHOLOGICAL EVOLUTION OF A LARGE BACK-BARRIER ESTUARY. , 2015, , . | | 1 |
| 56 | A NEW FIELD EXERCISE FOR EXPERIENTIAL LEARNING IN COASTAL ENGINEERING. Proceedings of the Canadian Engineering Education Association (CEEA), 0, , . | 0.2 | 0 |
| 57 | Thank You to Our 2020 Reviewers. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017288. | 1.0 | 0 |
| 58 | Thank You to Our 2021 Reviewers. Journal of Geophysical Research: Oceans, 2022, 127, . | 1.0 | 0 |