

Alec Torres-Freyermuth

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,120
citations

331670

21
h-index

414414

32
g-index

68
all docs

68
docs citations

68
times ranked

957
citing authors

#	ARTICLE	IF	CITATIONS
1	On the runup parameterisation for reef-lined coasts. Ocean Modelling, 2022, 169, 101929.	2.4	9
2	The role of morphodynamics in predicting coastal flooding from storms on a dissipative beach with sea level rise conditions. Natural Hazards and Earth System Sciences, 2022, 22, 713-728.	3.6	5
3	A virtual laboratory for conducting “hands-on” experiments on water wave mechanics. Continental Shelf Research, 2022, 243, 104760.	1.8	1
4	Human Impact on the Spatiotemporal Evolution of Beach Resilience on the Northwestern Yucatan Coast. Frontiers in Marine Science, 2021, 8, .	2.5	5
5	Modelado físico y numérico de la interacción de ondas enfocadas con un dique vertical con banquetta baja. Tecnología Y Ciencias Del Agua, 2021, 12, 111-156.	0.3	0
6	Impact of port development on the northern Yucatan Peninsula coastline. Regional Studies in Marine Science, 2021, 45, 101835.	0.7	12
7	Foredune formation and evolution on a prograding sea-breeze dominated beach. Continental Shelf Research, 2021, 226, 104495.	1.8	5
8	Hydrodynamics and sediment transport under a dam-break-driven swash: An experimental study. Coastal Engineering, 2021, 170, 103986.	4.0	5
9	Sea-land breeze diurnal component and its interaction with a cold front on the coast of Sisal, Yucatan: A case study. Atmospheric Research, 2020, 244, 105051.	4.1	9
10	Numerical study of the flow structure at a swash tip propagating over a rough bed. Coastal Engineering, 2020, 161, 103729.	4.0	9
11	The role of alongshore flows on inner surf and swash zone hydrodynamics on a dissipative beach. Continental Shelf Research, 2020, 201, 104134.	1.8	5
12	Spatiotemporal Storm Impact on the Northern Yucatan Coast during Hurricanes and Central American Cold Surge Events. Journal of Marine Science and Engineering, 2020, 8, 2.	2.6	10
13	Design and Performance of Permeable Groins on a Low-Energy Natural Beach. Journal of Marine Science and Engineering, 2020, 8, 283.	2.6	3
14	Variability in Onshore Sediment Transport on a Natural Beach during a Central American Cold Surge Event. Journal of Coastal Research, 2020, 36, 487.	0.3	6
15	Numerical Assessment of Tsunami-Structure Interaction (Guerrero, Mexico). Journal of Coastal Research, 2020, 36, .	0.3	1
16	FOREDUNE EVOLUTION AT A PROGRADING LOW-ENERGY SEA-BREEZE DOMINATED MICRO-TIDAL BEACH. Coastal Engineering Proceedings, 2020, , 16.	0.1	0
17	MODELING RAPID BEACH CHANGE SURROUNDING A COASTAL STRUCTURE IN OBLIQUE WAVES. Coastal Engineering Proceedings, 2020, , 46.	0.1	0
18	Morphodynamic Response to Low-Crested Detached Breakwaters on a Sea Breeze-Dominated Coast. Water (Switzerland), 2019, 11, 635.	2.7	12

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19	Runup uncertainty on planar beaches. Ocean Dynamics, 2019, 69, 1359-1371.	2.2	14
20	Morphodynamics along a micro-tidal sea breeze dominated beach in the vicinity of coastal structures. Marine Geology, 2019, 417, 106013.	2.1	24
21	On the Use of Parametric Wind Models for Wind Wave Modeling under Tropical Cyclones. Water (Switzerland), 2019, 11, 2044.	2.7	24
22	Field and Numerical Study of Resistance and Resilience on a Sea Breeze Dominated Beach in Yucatan (Mexico). Water (Switzerland), 2018, 10, 1806.	2.7	24
23	Assessment of coastal flooding and associated hydrodynamic processes on the south-eastern coast of Mexico, during Central American cold surge events. Natural Hazards and Earth System Sciences, 2018, 18, 1681-1701.	3.6	11
24	MORPHODYNAMIC MODEL TO SIMULATE SHORELINE EVOLUTION AT ANY COASTAL MOUND. Coastal Engineering Proceedings, 2018, , 78.	0.1	0
25	SEASONAL BEACH VARIABILITY ON A SEA-BREEZE DOMINATED BEACH. Coastal Engineering Proceedings, 2018, , 72.	0.1	0
26	The role of the reef-dune system in coastal protection in Puerto Morelos (Mexico). Natural Hazards and Earth System Sciences, 2018, 18, 1247-1260.	3.6	13
27	Determinaci3n de la vida 3til de una protecci3n costera a trav3s de la interacci3n oleaje-estructura. Tecnologia Y Ciencias Del Agua, 2018, 09, 01-24.	0.3	0
28	ON THE ASSESMENT OF DETACHED BREAKWATERS ON A SEA-BREEZE DOMINATED BEACH. Coastal Engineering Proceedings, 2018, , 36.	0.1	0
29	Nearshore circulation on a sea breeze dominated beach during intense wind events. Continental Shelf Research, 2017, 151, 40-52.	1.8	23
30	Wave attenuation over porous seabeds: A numerical study. Ocean Modelling, 2017, 117, 28-40.	2.4	8
31	On the Role of Climate Change on Wind Waves Generated by Tropical Cyclones in the Gulf of Mexico. Coastal Engineering Journal, 2017, 59, 1740001-1-1740001-32.	1.9	23
32	Run-up parameterization and beach vulnerability assessment on a barrier island: a downscaling approach. Natural Hazards and Earth System Sciences, 2016, 16, 167-180.	3.6	26
33	Advances in numerical modelling of swash zone dynamics. Coastal Engineering, 2016, 115, 26-41.	4.0	69
34	The second international workshop on swash-zone processes. Coastal Engineering, 2016, 115, 1-7.	4.0	18
35	On the role of infiltration and exfiltration in swash zone boundary layer dynamics. Journal of Geophysical Research: Oceans, 2015, 120, 6329-6350.	2.6	21
36	On the role of uncertainty for the study of wave-structure interaction. Coastal Engineering, 2015, 106, 32-41.	4.0	8

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37	Wave energy potential assessment in the Caribbean Low Level Jet using wave hindcast information. Applied Energy, 2015, 137, 375-384.	10.1	68
38	RUNUP ON A MICRO-TIDAL SEA-BREEZE DOMINATED BEACH. , 2015, , .		0
39	Wave Climate and Trends for the Gulf of Mexico: A 30-Yr Wave Hindcast. Journal of Climate, 2014, 27, 1619-1632.	3.2	81
40	On dam-break wave propagation and its implication to sediment erosion. Journal of Hydraulic Research/De Recherches Hydrauliques, 2014, 52, 205-218.	1.7	11
41	On the mechanisms of low-frequency wave attenuation by muddy seabeds. Geophysical Research Letters, 2014, 41, 2870-2875.	4.0	7
42	Experimental and Lagrangian modeling of nonlinear water waves propagation on a sloping bottom. Ocean Engineering, 2013, 64, 36-48.	4.3	5
43	Wave modeling performance in the Gulf of Mexico and Western Caribbean: Wind reanalyses assessment. Applied Ocean Research, 2013, 39, 20-30.	4.1	54
44	An experimental and numerical investigation on wave-mud interactions. Journal of Geophysical Research: Oceans, 2013, 118, 1126-1141.	2.6	30
45	Modeling swash-zone hydrodynamics and shear stresses on planar slopes using Reynolds-Averaged Navier-Stokes equations. Journal of Geophysical Research: Oceans, 2013, 118, 1019-1033.	2.6	34
46	Storm characterization and coastal hazards in the Yucatan Peninsula. Journal of Coastal Research, 2013, 65, 790-795.	0.3	27
47	Effects of reef roughness on wave setup and surf zone currents. Journal of Coastal Research, 2013, 165, 2005-2010.	0.3	38
48	Longshore Sediment Transport on the Northern Coast of the Yucatan Peninsula. Journal of Coastal Research, 2012, 285, 1404-1417.	0.3	54
49	Momentum balance under breaking waves: Closure to discussion by T.E. Baldock of "Laboratory investigation of pressure gradients induced by plunging breakers". Coastal Engineering, 2012, 68, 96-102.	4.0	1
50	Wave-induced extreme water levels in the Puerto Morelos fringing reef lagoon. Natural Hazards and Earth System Sciences, 2012, 12, 3765-3773.	3.6	50
51	An Engineering Approach for Modeling Hurricane Extreme Waves Using Analytical and Numerical Tools. , 2012, , .		1
52	Estimation of the velocity field induced by plunging breakers in the surf and swash zones. Experiments in Fluids, 2012, 52, 53-68.	2.4	18
53	CHRONIC BEACH EROSION INDUCED BY COASTAL STRUCTURES IN CHELEM, YUCATÁN. Coastal Engineering Proceedings, 2012, , 125.	0.1	6
54	NUMERICAL AND EXPERIMENTAL STUDY OF DAM-BREAK FLOOD PROPAGATION AND ITS IMPLICATION TO SEDIMENT EROSION. Coastal Engineering Proceedings, 2012, 1, 7.	0.1	0

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55	INTEGRATED STUDY ON THE VELOCITY FIELD INDUCED BY PLUNGING BREAKERS. Coastal Engineering Proceedings, 2012, 1, 27.	0.1	0
56	Laboratory investigation of pressure gradients induced by plunging breakers. Coastal Engineering, 2011, 58, 722-738.	4.0	29
57	MOMENTUM BALANCE UNDER PLUNGING BREAKERS: THE ROLE OF ADVECTION ON SEDIMENT MOBILIZATION AND TRANSPORT. Coastal Engineering Proceedings, 2011, , 12.	0.1	0
58	Diagnostic investigation of impulsive pressures induced by plunging breakers impinging on gravel beaches. Coastal Engineering, 2010, 57, 252-266.	4.0	23
59	Numerical modelling of short- and long-wave transformation on a barred beach. Coastal Engineering, 2010, 57, 317-330.	4.0	78
60	On the dynamics of wave-mud interaction: A numerical study. Journal of Geophysical Research, 2010, 115, .	3.3	39
61	MODELLING LOW-FREQUENCY WAVE TRANSFORMATION USING COBRAS-UC. , 2009, , .		0
62	ON THE ROLE OF IMPULSIVE PRESSURES INDUCED BY PLUNGING BREAKERS ACTING ON GRAVEL BEACHES. , 2009, , .		0
63	A Depth Estimation System for Laboratory Studies using Video Imagery. American Journal of Environmental Sciences, 2008, 4, 229-237.	0.5	0
64	Modeling of surf zone processes on a natural beach using Reynolds-Averaged Navier-Stokes equations. Journal of Geophysical Research, 2007, 112, .	3.3	62