

Alec Torres-Freyermuth

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,120
citations

331538

21
h-index

414303

32
g-index

68
all docs

68
docs citations

68
times ranked

957
citing authors

#	ARTICLE	IF	CITATIONS
1	Wave Climate and Trends for the Gulf of Mexico: A 30-Yr Wave Hindcast. <i>Journal of Climate</i> , 2014, 27, 1619-1632.	1.2	81
2	Numerical modelling of short- and long-wave transformation on a barred beach. <i>Coastal Engineering</i> , 2010, 57, 317-330.	1.7	78
3	Advances in numerical modelling of swash zone dynamics. <i>Coastal Engineering</i> , 2016, 115, 26-41.	1.7	69
4	Wave energy potential assessment in the Caribbean Low Level Jet using wave hindcast information. <i>Applied Energy</i> , 2015, 137, 375-384.	5.1	68
5	Modeling of surf zone processes on a natural beach using Reynoldsâ€Averaged Navierâ€Stokes equations. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	62
6	Longshore Sediment Transport on the Northern Coast of the Yucatan Peninsula. <i>Journal of Coastal Research</i> , 2012, 285, 1404-1417.	0.1	54
7	Wave modeling performance in the Gulf of Mexico and Western Caribbean: Wind reanalyses assessment. <i>Applied Ocean Research</i> , 2013, 39, 20-30.	1.8	54
8	Wave-induced extreme water levels in the Puerto Morelos fringing reef lagoon. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 3765-3773.	1.5	50
9	On the dynamics of waveâ€mud interaction: A numerical study. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	39
10	Effects of reef roughness on wave setup and surf zone currents. <i>Journal of Coastal Research</i> , 2013, 165, 2005-2010.	0.1	38
11	Modeling swashâ€zone hydrodynamics and shear stresses on planar slopes using Reynoldsâ€Averaged Navierâ€Stokes equations. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1019-1033.	1.0	34
12	An experimental and numerical investigation on waveâ€mud interactions. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1126-1141.	1.0	30
13	Laboratory investigation of pressure gradients induced by plunging breakers. <i>Coastal Engineering</i> , 2011, 58, 722-738.	1.7	29
14	Storm characterization and coastal hazards in the Yucatan Peninsula. <i>Journal of Coastal Research</i> , 2013, 65, 790-795.	0.1	27
15	Run-up parameterization and beach vulnerability assessment on a barrier island: a downscaling approach. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 167-180.	1.5	26
16	Field and Numerical Study of Resistance and Resilience on a Sea Breeze Dominated Beach in Yucatan (Mexico). <i>Water (Switzerland)</i> , 2018, 10, 1806.	1.2	24
17	Morphodynamics along a micro-tidal sea breeze dominated beach in the vicinity of coastal structures. <i>Marine Geology</i> , 2019, 417, 106013.	0.9	24
18	On the Use of Parametric Wind Models for Wind Wave Modeling under Tropical Cyclones. <i>Water (Switzerland)</i> , 2019, 11, 2044.	1.2	24

#	ARTICLE	IF	CITATIONS
19	Diagnostic investigation of impulsive pressures induced by plunging breakers impinging on gravel beaches. <i>Coastal Engineering</i> , 2010, 57, 252-266.	1.7	23
20	Nearshore circulation on a sea breeze dominated beach during intense wind events. <i>Continental Shelf Research</i> , 2017, 151, 40-52.	0.9	23
21	On the Role of Climate Change on Wind Waves Generated by Tropical Cyclones in the Gulf of Mexico. <i>Coastal Engineering Journal</i> , 2017, 59, 1740001-1-1740001-32.	0.7	23
22	On the role of infiltration and exfiltration in swash zone boundary layer dynamics. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 6329-6350.	1.0	21
23	Estimation of the velocity field induced by plunging breakers in the surf and swash zones. <i>Experiments in Fluids</i> , 2012, 52, 53-68.	1.1	18
24	The second international workshop on swash-zone processes. <i>Coastal Engineering</i> , 2016, 115, 1-7.	1.7	18
25	Runup uncertainty on planar beaches. <i>Ocean Dynamics</i> , 2019, 69, 1359-1371.	0.9	14
26	The role of the reef-dune system in coastal protection in Puerto Morelos (Mexico). <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 1247-1260.	1.5	13
27	Morphodynamic Response to Low-Crested Detached Breakwaters on a Sea Breeze-Dominated Coast. <i>Water (Switzerland)</i> , 2019, 11, 635.	1.2	12
28	Impact of port development on the northern Yucatan Peninsula coastline. <i>Regional Studies in Marine Science</i> , 2021, 45, 101835.	0.4	12
29	On dam-break wave propagation and its implication to sediment erosion. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2014, 52, 205-218.	0.7	11
30	Assessment of coastal flooding and associated hydrodynamic processes on the south-eastern coast of Mexico, during Central American cold surge events. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 1681-1701.	1.5	11
31	Spatiotemporal Storm Impact on the Northern Yucatan Coast during Hurricanes and Central American Cold Surge Events. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 2.	1.2	10
32	Sea-land breeze diurnal component and its interaction with a cold front on the coast of Sisal, Yucatan: A case study. <i>Atmospheric Research</i> , 2020, 244, 105051.	1.8	9
33	Numerical study of the flow structure at a swash tip propagating over a rough bed. <i>Coastal Engineering</i> , 2020, 161, 103729.	1.7	9
34	On the runup parameterisation for reef-lined coasts. <i>Ocean Modelling</i> , 2022, 169, 101929.	1.0	9
35	On the role of uncertainty for the study of wave-structure interaction. <i>Coastal Engineering</i> , 2015, 106, 32-41.	1.7	8
36	Wave attenuation over porous seabeds: A numerical study. <i>Ocean Modelling</i> , 2017, 117, 28-40.	1.0	8

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37	On the mechanisms of low-frequency wave attenuation by muddy seabeds. Geophysical Research Letters, 2014, 41, 2870-2875.	1.5	7
38	Variability in Onshore Sediment Transport on a Natural Beach during a Central American Cold Surge Event. Journal of Coastal Research, 2020, 36, 487.	0.1	6
39	CHRONIC BEACH EROSION INDUCED BY COASTAL STRUCTURES IN CHELEM, YUCATÁN. Coastal Engineering Proceedings, 2012, , 125.	0.1	6
40	Experimental and Lagrangian modeling of nonlinear water waves propagation on a sloping bottom. Ocean Engineering, 2013, 64, 36-48.	1.9	5
41	The role of alongshore flows on inner surf and swash zone hydrodynamics on a dissipative beach. Continental Shelf Research, 2020, 201, 104134.	0.9	5
42	Human Impact on the Spatiotemporal Evolution of Beach Resilience on the Northwestern Yucatan Coast. Frontiers in Marine Science, 2021, 8, .	1.2	5
43	Foredune formation and evolution on a prograding sea-breeze dominated beach. Continental Shelf Research, 2021, 226, 104495.	0.9	5
44	Hydrodynamics and sediment transport under a dam-break-driven swash: An experimental study. Coastal Engineering, 2021, 170, 103986.	1.7	5
45	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.	1.5	5
46	Design and Performance of Permeable Groins on a Low-Energy Natural Beach. Journal of Marine Science and Engineering, 2020, 8, 283.	1.2	3
47	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.	1.7	1
48	An Engineering Approach for Modeling Hurricane Extreme Waves Using Analytical and Numerical Tools. , 2012, , .		1
49	Numerical Assessment of Tsunami-Structure Interaction (Guerrero, Mexico). Journal of Coastal Research, 2020, 36, .	0.1	1
50	A virtual laboratory for conducting "hands-on" experiments on water wave mechanics. Continental Shelf Research, 2022, 243, 104760.	0.9	1
51	MORPHODYNAMIC MODEL TO SIMULATE SHORELINE EVOLUTION AT ANY COASTAL MOUND. Coastal Engineering Proceedings, 2018, , 78.	0.1	0
52	SEASONAL BEACH VARIABILITY ON A SEA-BREEZE DOMINATED BEACH. Coastal Engineering Proceedings, 2018, , 72.	0.1	0
53	Modelado f3sico y num3rico de la interacci3n de ondas enfocadas con un dique vertical con banqueta baja. Tecnologia Y Ciencias Del Agua, 2021, 12, 111-156.	0.1	0
54	A Depth Estimation System for Laboratory Studies using Video Imagery. American Journal of Environmental Sciences, 2008, 4, 229-237.	0.3	0

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55	MODELLING LOW-FREQUENCY WAVE TRANSFORMATION USING COBRAS-UC. , 2009, , .		0
56	ON THE ROLE OF IMPULSIVE PRESSURES INDUCED BY PLUNGING BREAKERS ACTING ON GRAVEL BEACHES. , 2009, , .		0
57	MOMENTUM BALANCE UNDER PLUNGING BREAKERS: THE ROLE OF ADVECTION ON SEDIMENT MOBILIZATION AND TRANSPORT. Coastal Engineering Proceedings, 2011, , 12.	0.1	0
58	NUMERICAL AND EXPERIMENTAL STUDY OF DAM-BREAK FLOOD PROPAGATION AND ITS IMPLICATION TO SEDIMENT EROSION. Coastal Engineering Proceedings, 2012, 1, 7.	0.1	0
59	INTEGRATED STUDY ON THE VELOCITY FIELD INDUCED BY PLUNGING BREAKERS. Coastal Engineering Proceedings, 2012, 1, 27.	0.1	0
60	RUNUP ON A MICRO-TIDAL SEA-BREEZE DOMINATED BEACH. , 2015, , .		0
61	Determinación de la vida útil de una protección costera a través de la interacción oleaje-estructura. Tecnología Y Ciencias Del Agua, 2018, 09, 01-24.	0.1	0
62	ON THE ASSESMENT OF DETACHED BREAKWATERS ON A SEA-BREEZE DOMINATED BEACH. Coastal Engineering Proceedings, 2018, , 36.	0.1	0
63	FOREDUNE EVOLUTION AT A PROGRADING LOW-ENERGY SEA-BREEZE DOMINATED MICRO-TIDAL BEACH. Coastal Engineering Proceedings, 2020, , 16.	0.1	0
64	MODELING RAPID BEACH CHANGE SURROUNDING A COASTAL STRUCTURE IN OBLIQUE WAVES. Coastal Engineering Proceedings, 2020, , 46.	0.1	0