Maitane Olabarrieta

List of Publications by Year
in descending order

42 papers	1,801 citations	257450 24 h-index	276875 41 g-index
43 all docs	43 docs citations	43 times ranked	1939 citing authors

#	Article	IF	Citations
1	Implementation of the vortex force formalism in the coupled ocean-atmosphere-wave-sediment transport (COAWST) modeling system for inner shelf and surf zone applications. Ocean Modelling, 2012, 47, 65-95.	2.4	212
2	Infragravity waves: From driving mechanisms to impacts. Earth-Science Reviews, 2018, 177, 774-799.	9.1	165
3	Wave-current interaction in Willapa Bay. Journal of Geophysical Research, 2011, 116, .	3.3	140
4	Morphodynamics of tidal networks: Advances and challenges. Marine Geology, 2013, 346, 1-16.	2.1	133
5	Oceanâ€“atmosphere dynamics during Hurricane Ida and Norâ€™Ida: An application of the coupled oceanâ€“atmosphereâ€“waveâ€“sediment transport (COAWST) modeling system. Ocean Modelling, 2012, 43-44, 112-137.	2.4	125
6	Is â€œMorphodynamic Equilibriumâ€•an oxymoron?. Earth-Science Reviews, 2017, 165, 257-267.	9.1	112
7	Effects of waveâ€“current interaction on the current profile. Coastal Engineering, 2010, 57, 643-655.	4.0	83
8	The role of morphology and waveâ€•current interaction at tidal inlets: An idealized modeling analysis. Journal of Geophysical Research: Oceans, 2014, 119, 8818-8837.	2.6	59
9	Compound flooding in Houston-Galveston Bay during Hurricane Harvey. Science of the Total Environment, 2020, 747, 141272.	8.0	53
10	A comparative study of physical and numerical modeling of tidal network ontogeny. Journal of Geophysical Research F: Earth Surface, 2014, 119, 892-912.	2.8	51
11	Sea-level rise and the emergence of a keystone grazer alter the geomorphic evolution and ecology of southeast US salt marshes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17891-17902.	7.1	45
12	Modeling the Morphodynamics of Coastal Responses to Extreme Events: What Shape Are We In?. Annual Review of Marine Science, 2022, 14, 457-492.	11.6	38
13	External forcing of meteorological tsunamis at the coast of the Balearic Islands. Physics and Chemistry of the Earth, 2009, 34, 938-947.	2.9	36
14	Impact of a 1755-like tsunami in Huelva, Spain. Natural Hazards and Earth System Sciences, 2010, 10, 139-148.	3.6	36
15	Effects of Densityâ€Driven Flows on the Longâ€Term Morphodynamic Evolution of Funnelâ€Shaped Estuaries. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2901-2924.	2.8	33
16	Waveâ€“Current Interaction between Hurricane Matthew Wave Fields and the Gulf Stream. Journal of Physical Oceanography, 2019, 49, 2883-2900.	1.7	32
17	Meteotsunamis in the northeastern Gulf of Mexico and their possible link to El NiÃ±o Southern Oscillation. Natural Hazards, 2017, 88, 1325-1346.	3.4	31
18	Observations and modeling of a tidal inlet dye tracer plume. Journal of Geophysical Research: Oceans, 2016, 121, 7819-7844.	2.6	29

#	Article	IF	Citations
19	Tropical cyclone rainbands can trigger meteotsunamis. Nature Communications, 2020, 11, 678.	12.8	29
20	Relevance of infragravity waves in a waveâ€dominated inlet. Journal of Geophysical Research: Oceans, 2016, 121, 5418-5435.	2.6	28
21	Mediterranean Overflow Water (MOW) simulation using a coupled multipleâ€grid Mediterranean Sea/North Atlantic Ocean model. Journal of Geophysical Research, 2008, 113, .	3.3	27
22	The BIGâ€™95 Submarine Landslideâ€“Generated Tsunami: A Numerical Simulation. Journal of Geology, 2012, 120, 31-48.	1.4	27
23	The unperceived risk to Europe's coasts: tsunamis and the vulnerability of Cadiz, Spain. Natural Hazards and Earth System Sciences, 2010, 10, 2659-2675.	3.6	26
24	Scenarios for earthquake-generated tsunamis on a complex tectonic area of diffuse deformation and low velocity: The Alboran Sea, Western Mediterranean. Marine Geology, 2011, 284, 55-73.	2.1	26
25	Morphodynamic responses of Caofeidian channel-shoal system to sequential large-scale land reclamation. Continental Shelf Research, 2018, 165, 12-25.	1.8	25
26	Observed and modeled drifters at a tidal inlet. Journal of Geophysical Research: Oceans, 2015, 120, 4825-4844.	2.6	24
27	Freshwater Detention by Oyster Reefs: Quantifying a Keystone Ecosystem Service. PLoS ONE, 2016, 11, e0167694.	2.5	24
28	A Nearshore Wave and Current Operational Forecasting System. Journal of Coastal Research, 2010, 263, 503-509.	0.3	19
29	C3: A finite volume-finite difference hybrid model for tsunami propagation and runup. Computers and Geosciences, 2011, 37, 1003-1014.	4.2	19
30	Semidiurnal perturbations to the surge of Hurricane Sandy. Geophysical Research Letters, 2013, 40, 2211-2217.	4.0	18
31	Storm-induced semidiurnal perturbations to surges on the US Eastern Seaboard. Continental Shelf Research, 2016, 114, 54-71.	1.8	18
32	Tsunami Resonance in Palma Bay and Harbor, Majorca Island, as Induced by the 2003 Western Mediterranean Earthquake. Journal of Geology, 2014, 122, 165-182.	1.4	17
33	Relevance of wind stress and wave-dependent ocean surface roughness on the generation of winter meteotsunamis in the Northern Gulf of Mexico. Ocean Modelling, 2019, 140, 101408.	2.4	14
34	An Alert System for Beach Hazard Management in the Balearic Islands. Coastal Management, 2009, 37, 569-584.	2.0	11
35	Beach Morphodynamics influenced by an ebbâ€tidal delta on the north Florida Atlantic coast. Earth Surface Processes and Landforms, 2016, 41, 936-950.	2.5	10
36	Effect of Mississippi River discharge and local hydrological variables on salinity of nearby estuaries using a machine learning algorithm. Estuarine, Coastal and Shelf Science, 2021, 263, 107628.	2.1	5

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37	Hydrodynamics and Sediment Mobility Processes Over a Degraded Senile Coral Reef. Journal of Geophysical Research: Oceans, 2018, 123, 7053-7066.	2.6	4
38	Estimating the Influence of Oyster Reef Chains on Freshwater Detention at the Estuary Scale Using Landsat-8 Imagery. Estuaries and Coasts, 2022, 45, 1-16.	2.2	4
39	A HIGH RESOLUTION OPERATIONAL OIL SPILL MODEL AT SANTANDER BAY (SPAIN): IMPLEMENTATION AND VALIDATION. International Oil Spill Conference Proceedings, 2014, 2014, 516-530.	0.1	4
40	Modeling of Barrier Breaching During Hurricanes Sandy and Matthew. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	2.8	4
41	Coastal morphodynamic responses of a mixed-energy and fine-sediment coast to different sea level rise trends. Coastal Engineering, 2020, 161, 103767.	4.0	1
42	Tsunami Response in Semienclosed Tidal Basins Using an Aggregated Model. Journal of Hydraulic Engineering, 2012, 138, 744-751.	1.5	0