

Fernando J MÃ©ndez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4791655/publications.pdf>

Version: 2024-02-01

114
papers

5,144
citations

87843

38
h-index

95218

68
g-index

115
all docs

115
docs citations

115
times ranked

3866
citing authors

#	ARTICLE	IF	CITATIONS
1	An empirical model to estimate the propagation of random breaking and nonbreaking waves over vegetation fields. Coastal Engineering, 2004, 51, 103-118.	1.7	425
2	A recent increase in global wave power as a consequence of oceanic warming. Nature Communications, 2019, 10, 205.	5.8	283
3	Analysis of clustering and selection algorithms for the study of multivariate wave climate. Coastal Engineering, 2011, 58, 453-462.	1.7	210
4	A Global Ocean Wave (GOW) calibrated reanalysis from 1948 onwards. Coastal Engineering, 2012, 65, 38-55.	1.7	200
5	Hydrodynamics induced by wind waves in a vegetation field. Journal of Geophysical Research, 1999, 104, 18383-18396.	3.3	175
6	A hybrid efficient method to downscale wave climate to coastal areas. Coastal Engineering, 2011, 58, 851-862.	1.7	166
7	Global extreme wave height variability based on satellite data. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	158
8	Estimation of the long-term variability of extreme significant wave height using a time-dependent Peak Over Threshold (POT) model. Journal of Geophysical Research, 2006, 111, .	3.3	146
9	Variability of extreme wave heights in the northeast Pacific Ocean based on buoy measurements. Geophysical Research Letters, 2008, 35, .	1.5	114
10	Blind testing of shoreline evolution models. Scientific Reports, 2020, 10, 2137.	1.6	112
11	Changing extreme sea levels along European coasts. Coastal Engineering, 2014, 87, 4-14.	1.7	102
12	Analyzing Monthly Extreme Sea Levels with a Time-Dependent GEV Model. Journal of Atmospheric and Oceanic Technology, 2007, 24, 894-911.	0.5	100
13	Evaluating the performance of CMIP3 and CMIP5 global climate models over the north-east Atlantic region. Climate Dynamics, 2014, 43, 2663-2680.	1.7	98
14	High resolution downscaled ocean waves (DOW) reanalysis in coastal areas. Coastal Engineering, 2013, 72, 56-68.	1.7	97
15	A weather-type statistical downscaling framework for ocean wave climate. Journal of Geophysical Research: Oceans, 2014, 119, 7389-7405.	1.0	91
16	A global classification of coastal flood hazard climates associated with large-scale oceanographic forcing. Scientific Reports, 2017, 7, 5038.	1.6	85
17	A methodology for deriving extreme nearshore sea conditions for structural design and flood risk analysis. Coastal Engineering, 2014, 88, 15-26.	1.7	84
18	An integrated coastal modeling system for analyzing beach processes and beach restoration projects, SMC. Computers and Geosciences, 2007, 33, 916-931.	2.0	83

#	ARTICLE	IF	CITATIONS
19	High-resolution sea wind hindcasts over the Mediterranean area. <i>Climate Dynamics</i> , 2014, 42, 1857-1872.	1.7	81
20	The influence of seasonality on estimating return values of significant wave height. <i>Coastal Engineering</i> , 2009, 56, 211-219.	1.7	79
21	Statistical multi-model climate projections of surface ocean waves in Europe. <i>Ocean Modelling</i> , 2015, 96, 161-170.	1.0	78
22	Calibration of a Lagrangian Transport Model Using Drifting Buoys Deployed during the Prestige Oil Spill. <i>Journal of Coastal Research</i> , 2009, 251, 80-90.	0.1	77
23	The Prestige Oil Spill in Cantabria (Bay of Biscay). Part I: Operational Forecasting System for Quick Response, Risk Assessment, and Protection of Natural Resources. <i>Journal of Coastal Research</i> , 2006, 226, 1474-1489.	0.1	76
24	Long-term changes in the frequency, intensity and duration of extreme storm surge events in southern Europe. <i>Climate Dynamics</i> , 2016, 46, 1503-1516.	1.7	76
25	Long-term changes in sea-level components in Latin America and the Caribbean. <i>Global and Planetary Change</i> , 2013, 104, 34-50.	1.6	72
26	Extreme wave climate variability in southern Europe using satellite data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	70
27	Variability of multivariate wave climate in Latin America and the Caribbean. <i>Global and Planetary Change</i> , 2013, 100, 70-84.	1.6	68
28	A perturbation method to solve dispersion equations for water waves over dissipative media. <i>Coastal Engineering</i> , 2004, 51, 81-89.	1.7	66
29	Directional Calibration of Wave Reanalysis Databases Using Instrumental Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 1466-1485.	0.5	66
30	Seasonality and duration in extreme value distributions of significant wave height. <i>Ocean Engineering</i> , 2008, 35, 131-138.	1.9	64
31	Predicting Climate-Driven Coastlines With a Simple and Efficient Multiscale Model. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 1596-1624.	1.0	64
32	An approach to assess flooding and erosion risk for open beaches in a changing climate. <i>Coastal Engineering</i> , 2014, 87, 50-76.	1.7	61
33	Morphodynamic classification of sandy beaches in low energetic marine environment. <i>Marine Geology</i> , 2007, 242, 235-246.	0.9	56
34	ESTELA: a method for evaluating the source and travel time of the wave energy reaching a local area. <i>Ocean Dynamics</i> , 2014, 64, 1181-1191.	0.9	52
35	A multiscale climate emulator for long-term morphodynamics (MUSCLE-morpho). <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 775-791.	1.0	44
36	A Climate Index Optimized for Longshore Sediment Transport Reveals Interannual and Multidecadal Littoral Cell Rotations. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 1958-1981.	1.0	42

#	ARTICLE	IF	CITATIONS
37	A method for finding the optimal predictor indices for local wave climate conditions. <i>Ocean Dynamics</i> , 2014, 64, 1025-1038.	0.9	39
38	Transformation model of wave height distribution on planar beaches. <i>Coastal Engineering</i> , 2004, 50, 97-115.	1.7	38
39	Coastal waters classification based on physical attributes along the NE Atlantic region. An approach for rocky macroalgae potential distribution. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 112, 105-114.	0.9	38
40	Comparative Coastal Risk Index (CCRI): A multidisciplinary risk index for Latin America and the Caribbean. <i>PLoS ONE</i> , 2017, 12, e0187011.	1.1	38
41	Global reconstructed daily surge levels from the 20th Century Reanalysis (1871â€“2010). <i>Global and Planetary Change</i> , 2017, 148, 9-21.	1.6	37
42	Wave-Induced Mean Magnitudes in Permeable Submerged Breakwaters. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2001, 127, 7-15.	0.5	35
43	Exploring the interannual variability of extreme wave climate in the Northeast Atlantic Ocean. <i>Ocean Modelling</i> , 2012, 59-60, 31-40.	1.0	32
44	Future regional projections of extreme temperatures in Europe: a nonstationary seasonal approach. <i>Climatic Change</i> , 2012, 113, 371-392.	1.7	32
45	A Multimodal Wave Spectrumâ€“Based Approach for Statistical Downscaling of Local Wave Climate. <i>Journal of Physical Oceanography</i> , 2017, 47, 375-386.	0.7	32
46	Wave climate projections along the French coastline: Dynamical versus statistical downscaling methods. <i>Ocean Modelling</i> , 2014, 84, 35-50.	1.0	31
47	Forecasting seasonal to interannual variability in extreme sea levels. <i>ICES Journal of Marine Science</i> , 2009, 66, 1490-1496.	1.2	30
48	Extreme wave climate changes in Central-South America. <i>Climatic Change</i> , 2013, 119, 277-290.	1.7	30
49	Autoregressive logistic regression applied to atmospheric circulation patterns. <i>Climate Dynamics</i> , 2014, 42, 537-552.	1.7	28
50	Spectral Ocean Wave Climate Variability Based on Atmospheric Circulation Patterns. <i>Journal of Physical Oceanography</i> , 2014, 44, 2139-2152.	0.7	28
51	Downscaling Changing Coastlines in a Changing Climate: The Hybrid Approach. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 229-251.	1.0	27
52	HyCReWW: A Hybrid Coral Reef Wave and Water level metamodel. <i>Computers and Geosciences</i> , 2019, 127, 85-90.	2.0	27
53	An extreme value model for maximum wave heights based on weather types. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 1262-1273.	1.0	26
54	A methodology to assess the probability of marine litter accumulation in estuaries. <i>Marine Pollution Bulletin</i> , 2019, 144, 309-324.	2.3	26

#	ARTICLE	IF	CITATIONS
55	Models for the Turbulent Diffusion Terms of Shallow Water Equations. <i>Journal of Hydraulic Engineering</i> , 2005, 131, 217-223.	0.7	23
56	A method for spatial calibration of wave hindcast data bases. <i>Continental Shelf Research</i> , 2008, 28, 391-398.	0.9	23
57	Multivariate Wave Climate Using Self-Organizing Maps. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 1554-1568.	0.5	23
58	Regression Models for Outlier Identification (Hurricanes and Typhoons) in Wave Hindcast Databases. <i>Journal of Atmospheric and Oceanic Technology</i> , 2012, 29, 267-285.	0.5	23
59	The effect of temporal dependence on the estimation of the frequency of extreme ocean climate events. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006, 462, 1683-1697.	1.0	22
60	Pseudo-optimal parameter selection of non-stationary generalized extreme value models for environmental variables. <i>Environmental Modelling and Software</i> , 2010, 25, 1592-1607.	1.9	21
61	Probabilistic relationships between wind and surface water circulation patterns in the SE Bay of Biscay. <i>Ocean Dynamics</i> , 2015, 65, 1289-1303.	0.9	21
62	An atmospheric-to-marine synoptic classification for statistical downscaling marine climate. <i>Ocean Dynamics</i> , 2016, 66, 1589-1601.	0.9	21
63	Time-varying Emulator for Short and Long-term Analysis of Coastal Flood Hazard Potential. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 9209-9234.	1.0	21
64	The Application of Ensemble Wave Forcing to Quantify Uncertainty of Shoreline Change Predictions. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2019JF005506.	1.0	21
65	A Multiscale Approach to Shoreline Prediction. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	20
66	Marine climate variability based on weather patterns for a complicated island setting: The New Zealand case. <i>International Journal of Climatology</i> , 2019, 39, 1777-1786.	1.5	19
67	Steps to Develop Early Warning Systems and Future Scenarios of Storm Wave-Driven Flooding Along Coral Reef-Lined Coasts. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	19
68	Sensitivity analysis of time-dependent generalized extreme value models for ocean climate variables. <i>Advances in Water Resources</i> , 2010, 33, 833-845.	1.7	18
69	Mixed extreme wave climate model for reanalysis databases. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013, 27, 757-768.	1.9	18
70	A nearshore long-term infragravity wave analysis for open harbours. <i>Coastal Engineering</i> , 2015, 97, 78-90.	1.7	18
71	A methodology to evaluate regional-scale offshore wind energy resources. , 2011, , .		17
72	Multiscale climate emulator of multimodal wave spectra: MUSCLE-spectra. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 1400-1415.	1.0	17

#	ARTICLE	IF	CITATIONS
73	A multivariate, stochastic, climate-based wave emulator for shoreline change modelling. <i>Ocean Modelling</i> , 2020, 154, 101695.	1.0	17
74	Surfing wave climate variability. <i>Global and Planetary Change</i> , 2014, 121, 19-25.	1.6	16
75	Controls of Multimodal Wave Conditions in a Complex Coastal Setting. <i>Geophysical Research Letters</i> , 2017, 44, 12,315.	1.5	16
76	Climate-based Monte Carlo simulation of trivariate sea states. <i>Coastal Engineering</i> , 2013, 80, 107-121.	1.7	14
77	A simplified method to downscale wave dynamics on vertical breakwaters. <i>Coastal Engineering</i> , 2013, 71, 68-77.	1.7	14
78	Identification of storm events and contiguous coastal sections for deterministic modeling of extreme coastal flood events in response to climate change. <i>Coastal Engineering</i> , 2018, 140, 316-330.	1.7	14
79	Projecting Climate Dependent Coastal Flood Risk With a Hybrid Statistical Dynamical Model. <i>Earth's Future</i> , 2021, 9, e2021EF002285.	2.4	14
80	Historical and future storm surge around New Zealand: From the 19th century to the end of the 21st century. <i>International Journal of Climatology</i> , 2020, 40, 1512-1525.	1.5	13
81	A multivariate approach to estimate design loads for offshore wind turbines. <i>Wind Energy</i> , 2013, 16, 1091-1106.	1.9	12
82	Directional correction of modeled sea and swell wave heights using satellite altimeter data. <i>Ocean Modelling</i> , 2018, 131, 103-114.	1.0	12
83	Daily synoptic conditions associated with occurrences of compound events in estuaries along North Atlantic coastlines. <i>International Journal of Climatology</i> , 2022, 42, 5694-5713.	1.5	12
84	Ecological typologies of large areas. An application in the Mediterranean Sea. <i>Journal of Environmental Management</i> , 2018, 205, 59-72.	3.8	11
85	Climate-induced variability in South Atlantic wave direction over the past three millennia. <i>Scientific Reports</i> , 2020, 10, 18553.	1.6	11
86	Influence of the NAO on the northwestern Mediterranean wave climate. <i>Scientia Marina</i> , 2010, 74, 55-64.	0.3	11
87	Long-term tidal level distribution using a wave-by-wave approach. <i>Advances in Water Resources</i> , 2007, 30, 2271-2282.	1.7	10
88	Directional calibrated wind and wave reanalysis databases using instrumental data for optimal design of off-shore wind farms. , 2011, , .		10
89	Evaluation of global wave energy resource. , 2011, , .		10
90	Seas and swells throughout New Zealand: A new partitioned hindcast. <i>Ocean Modelling</i> , 2021, 168, 101897.	1.0	10

#	ARTICLE	IF	CITATIONS
91	A probability distribution for depth-limited extreme wave heights in a sea state. Coastal Engineering, 2007, 54, 878-882.	1.7	9
92	Climate-Based Emulator of Distant Swell Trains and Local Seas Approaching a Pacific Atoll. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016919.	1.0	8
93	Introducing marine climate variability into life cycle management of coastal and offshore structures. , 2009, , .		4
94	A Meta-Modelling Approach for Estimating Long-Term Wave Run-Up and Total Water Level on Beaches. Journal of Coastal Research, 2018, 342, 475-489.	0.1	4
95	Corrientes de retorno en medios reflejantes y disipativos. IngenierÃa Del Agua, 1998, 5, .	0.2	4
96	Wind wave footprint of tropical cyclones from satellite data. International Journal of Climatology, 2023, 43, 372-381.	1.5	4
97	A Perturbation Method for Wave and Wave-Induced Currents Computations in Beach Morphology Models. , 2001, , 393.		3
98	Is the extreme wave climate in the NE Pacific increasing?. , 2010, , .		3
99	Improving construction management of port infrastructures using an advanced computer-based system. Automation in Construction, 2017, 81, 122-133.	4.8	3
100	Characterizing storm-induced coastal change hazards along the United States West Coast. Scientific Data, 2022, 9, .	2.4	3
101	Analyzing the multidimensional wave climate with self organizing maps. , 2009, , .		2
102	A methodology to define extreme wave climate using reanalysis data bases. , 2011, , .		2
103	THE NEW COASTAL MODELLING SYSTEM SMC-BRAZIL AND ITS APPLICATION TO THE EROSIONAL PROBLEM IN THE MASSAGUAÃU BEACH (SAO PAULO, BRAZIL). Coastal Engineering Proceedings, 2015, 1, 49.	0.1	2
104	On the feasibility of the use of wind SAR to downscale waves on shallow water. Ocean Science, 2016, 12, 39-49.	1.3	2
105	A hybrid regional climate downscaling for the southern Brazil coastal region. International Journal of Climatology, 2022, 42, 6753-6770.	1.5	2
106	Spatial and temporal variability of nearshore wave energy resources along Spain: Methodology and results. , 2010, , .		1
107	An Engineering Approach for Modeling Hurricane Extreme Waves Using Analytical and Numerical Tools. , 2012, , .		1
108	Reply to "On the new wave height distribution". Coastal Engineering, 2006, 53, 709.	1.7	0

#	ARTICLE	IF	CITATIONS
109	A multivariate approach to estimate design loads for offshore wind turbines. , 2011, , .		0
110	Downscaling wave energy resources to coastal areas. , 2011, , .		0
111	Numerical Analysis and Diagnosis of the Hydrodynamic Effects Produced by Hurricane Gordon along the Coast of Spain. Weather and Forecasting, 2014, 29, 666-683.	0.5	0
112	CAN WE DISTINGUISH COASTAL IMPACTS OF THE DIFFERENT ENSO FLAVORS?. , 2015, , .		0
113	A CLIMATE-BASED MULTIVARIATE WAVE EMULATOR FOR LONG-TERM MORPHODYNAMIC SIMULATIONS. , 2015, , .		0
114	Wave climates: deep water to shoaling zone. , 2020, , 39-59.		0