Sonia Ponce de LeÃ³n

List of Publications by Year
in descending order

29 papers	732 citations	623734 14 h-index	713466 21 g-index
31 all docs	31 docs citations	31 times ranked	769 citing authors

#	Article	IF	Citations
1	Real world ocean rogue waves explained without the modulational instability. Scientific Reports, 2016, 6, 27715.	3.3	189
2	Altimetry for the future: Building on 25 years of progress. Advances in Space Research, 2021, 68, 319-363.	2.6	119
3	Sensitivity of wave model predictions to wind fields in the Western Mediterranean sea. Coastal Engineering, 2008, 55, 920-929.	4.0	58
4	Extreme wave parameters under North Atlantic extratropical cyclones. Ocean Modelling, 2014, 81, 78-88.	2.4	44
5	An assessment of the wind re-analyses in the modelling of an extreme sea state in the Black Sea. Dynamics of Atmospheres and Oceans, 2016, 73, 61-75.	1.8	43
6	Simulation of irregular waves in an offshore wind farm with a spectral wave model. Continental Shelf Research, 2011, 31, 1541-1557.	1.8	30
7	Wave energy in the Balearic Sea. Evolution from a 29 year spectral wave hindcast. Renewable Energy, 2016, 85, 1192-1200.	8.9	29
8	On the sheltering effect of islands in ocean wave models. Journal of Geophysical Research, 2005, 110, .	3.3	23
9	Assessment of wind models around the Balearic Islands for operational wave forecast. Applied Ocean Research, 2012, 34, 1-9.	4.1	23
10	Highly nonlinear wind waves in Currituck Sound: dense breather turbulence in random ocean waves. Ocean Dynamics, 2019, 69, 187-219.	2.2	22
11	Composite analysis of North Atlantic extra-tropical cyclone waves from satellite altimetry observations. Advances in Space Research, 2021, 68, 762-772.	2.6	22
12	Numerical study of the marine breeze around Mallorca Island. Applied Ocean Research, 2013, 40, 26-34.	4.1	20
13	Hindcast of extreme sea states in North Atlantic extratropical storms. Ocean Dynamics, 2015, 65, 241-254.	2.2	20
14	Hindcast of the HÃ©rcules winter storm in the North Atlantic. Natural Hazards, 2015, 78, 1883-1897.	3.4	15
15	The sheltering effect of the Balearic Islands in the hindcast wave field. Ocean Engineering, 2010, 37, 603-610.	4.3	13
16	Comparison of numerical hindcasted severe waves with Doppler radar measurements in the North Sea. Ocean Dynamics, 2017, 67, 103-115.	2.2	11
17	Role of Nonlinear Four-Wave Interactions Source Term on the Spectral Shape. Journal of Marine Science and Engineering, 2020, 8, 251.	2.6	10
18	Extreme Waves in the Agulhas Current Region Inferred from SAR Wave Spectra and the SWAN Model. Journal of Marine Science and Engineering, 2021, 9, 153.	2.6	10

#	Article	IF	Citations
19	Numerical Modelling of the Effects of the Gulf Stream on the Wave Characteristics. Journal of Marine Science and Engineering, 2021, 9, 42.	2.6	8
20	Properties of Rogue Waves and the Shape of the Ocean Wave Power Spectrum. , 2017, , .		6
21	Local Analysis of Wave Fields Produced From Hindcasted Rogue Wave Sea States. , 2015, , .		4
22	Distribution of winter wave spectral peaks in the seas around Norway. Ocean Engineering, 2012, 50, 63-71.	4.3	3
23	On the Importance of the Exact Nonlinear Interactions in the Spectral Characterization of Rogue Waves. , 2018, , .		3
24	Distribution of average extreme wave parameters in the North Atlantic from numerical simulations. Ocean Engineering, 2022, 253, 110901.	4.3	3
25	Performance of WAVEWATCH-III and SWAN Models in the North Sea. , 2018, , .		2
26	Wave and current forecasting along the Spanish Catalan coast. Elsevier Oceanography Series, 2003, 69, 379-385.	0.1	1
27	Evolution of the Extreme Wave Region in the North Atlantic Using a 23 Year Hindcast. , 2015, , .		1
28	ON THE ACCURACY OF WAVE MODELS IN A COASTAL ZONE. , 2005, , .		0
29	Extreme Waves. Journal of Marine Science and Engineering, 2022, 10, 697.	2.6	0