Francisco Taveira-Pinto

List of Publications by Year
in descending order

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136 papers	2,348 citations	201575 27 h-index	265120 42 g-index
141 all docs	141 docs citations	141 times ranked	1701 citing authors

#	Article	IF	Citations
1	Emerging triboelectric nanogenerators for ocean wave energy harvesting: state of the art and future perspectives. Energy and Environmental Science, 2020, 13, 2657-2683.	15.6	195
2	The new wave energy converter WaveCat: Concept and laboratory tests. Marine Structures, 2012, 29, 58-70.	1.6	115
3	On the potential synergies and applications of wave energy converters: A review. Renewable and Sustainable Energy Reviews, 2021, 135, 110162.	8.2	100
4	Potential effects of climate change on northwest Portuguese coastal zones. ICES Journal of Marine Science, 2009, 66, 1497-1507.	1.2	80
5	Integrated study of triboelectric nanogenerator for ocean wave energy harvesting: Performance assessment in realistic sea conditions. Nano Energy, 2021, 84, 105890.	8.2	72
6	Analysis of different criteria to size rainwater storage tanks using detailed methods. Resources, Conservation and Recycling, 2013, 71, 1-6.	5.3	70
7	Electricity supply to offshore oil and gas platforms from renewable ocean wave energy: Overview and case study analysis. Energy Conversion and Management, 2019, 186, 556-569.	4.4	63
8	Development of an experimental system for greywater reuse. Desalination, 2012, 285, 301-305.	4.0	48
9	A high resolution geospatial database for wave energy exploitation. Energy, 2014, 68, 572-583.	4.5	48
10	Asymmetric copulaâ€“based distribution models for met-ocean data in offshore wind engineering applications. Wind Engineering, 2018, 42, 304-334.	1.1	46
11	Sensitivity of OWC performance to air compressibility. Renewable Energy, 2020, 145, 1334-1347.	4.3	43
12	The CECO wave energy converter: Recent developments. Renewable Energy, 2019, 139, 368-384.	4.3	41
13	Assessment of the potential of combining wave and solar energy resources to power supply worldwide offshore oil and gas platforms. Energy Conversion and Management, 2020, 223, 113299.	4.4	40
14	Experimental evaluation of the tension mooring effect on the response of moored ships. Coastal Engineering, 2014, 85, 60-71.	1.7	36
15	Experimental investigation of mooring configurations for wave energy converters. International Journal of Marine Energy, 2016, 15, 56-67.	1.8	36
16	Influence of the power take-off characteristics on the performance of CECO wave energy converter. Energy, 2017, 120, 686-697.	4.5	36
17	Preface to Special Topic: Marine Renewable Energy. Journal of Renewable and Sustainable Energy, 2015, 7, .	0.8	33
18	Numerical modelling of the CECO wave energy converter. Renewable Energy, 2017, 113, 202-210.	4.3	32

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19	Probabilistic design and reliability analysis of scour protections for offshore windfarms. Engineering Failure Analysis, 2018, 91, 291-305.	1.8	32
20	Experimental Study of a Hybrid Wave Energy Converter Integrated in a Harbor Breakwater. Journal of Marine Science and Engineering, 2019, 7, 33.	1.2	31
21	Performance Assessment of a Hybrid Wave Energy Converter Integrated into a Harbor Breakwater. Energies, 2020, 13, 236.	1.6	31
22	Identification of beach hydromorphological patterns/forms through image classification techniques applied to remotely sensed data. International Journal of Remote Sensing, 2011, 32, 7399-7422.	1.3	30
23	Scour Protections for Offshore Foundations of Marine Energy Harvesting Technologies: A Review. Journal of Marine Science and Engineering, 2021, 9, 297.	1.2	30
24	Erosion risk levels at the NW Portuguese coast: The Douro mouth - Cape Mondego stretch. Journal of Coastal Conservation, 2004, 10, 43.	0.7	29
25	Hydrodynamic optimization of the geometry of a sloped-motion wave energy converter. Ocean Engineering, 2020, 199, 107046.	1.9	29
26	The practice of coastal zone management in Portugal. Journal of Coastal Conservation, 2004, 10, 147.	0.7	28
27	CECO wave energy converter: Experimental proof of concept. Journal of Renewable and Sustainable Energy, 2015, 7, .	0.8	28
28	Editorial: Advanced research on offshore structures and foundation design: part 1. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2019, 172, 118-123.	1.4	28
29	A methodology for data gap filling in wave records using Artificial Neural Networks. Applied Ocean Research, 2020, 98, 102109.	1.8	28
30	Extended characterization of damage in rubble mound scour protections. Coastal Engineering, 2020, 158, 103671.	1.7	28
31	Legal framework of marine renewable energy: A review for the Atlantic region of Europe. Renewable and Sustainable Energy Reviews, 2021, 137, 110608.	8.2	28
32	Portuguese coastal zones and the new coastal management plans. Journal of Coastal Conservation, 2003, 9, 25.	0.7	25
33	Experimental evaluation of the effect of wave focusing walls on the performance of the Sea-wave Slot-cone Generator. Energy Conversion and Management, 2016, 110, 165-175.	4.4	24
34	Large Scale Experimental Study of the Scour Protection Damage Around a Monopile Foundation Under Combined Wave and Current Conditions. Journal of Marine Science and Engineering, 2020, 8, 417.	1.2	24
35	Large-Scale Experiments to Improve Monopile Scour Protection Design Adapted to Climate Changeâ€"The PROTEUS Project. Energies, 2019, 12, 1709.	1.6	23
36	Statistical description and modelling of extreme ocean wave conditions. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2019, 172, 124-132.	1.4	23

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37	Wave Energy Converter Power Take-Off System Scaling and Physical Modelling. Journal of Marine Science and Engineering, 2020, 8, 632.	1.2	23
38	Evaluation of the annual electricity production of a hybrid breakwater-integrated wave energy converter. Energy, 2020, 213, 118845.	4.5	22
39	Performance assessment of the CECO wave energy converter: Water depth influence. Renewable Energy, 2018, 117, 341-356.	4.3	21
40	Effects of the PTO inclination on the performance of the CECO wave energy converter. Marine Structures, 2018, 61, 452-466.	1.6	21
41	Assessment of damping coefficients of power take-off systems of wave energy converters: A hybrid approach. Energy, 2019, 169, 1022-1038.	4.5	21
42	Influence of the wave climate seasonality on the performance of a wave energy converter: A case study. Energy, 2017, 135, 303-316.	4.5	20
43	Reliability assessment of offshore dynamic scour protections using copulas. Wind Engineering, 2019, 43, 506-538.	1.1	20
44	Preface: Advanced Research on Offshore Structures and Foundation Design: Part 2. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2020, 173, 96-99.	1.4	19
45	Assessing the Effectiveness of a Novel WEC Concept as a Co-Located Solution for Offshore Wind Farms. Journal of Marine Science and Engineering, 2022, 10, 267.	1.2	19
46	Assessment of the power conversion of wave energy converters based on experimental tests. Energy Conversion and Management, 2018, 173, 692-703.	4.4	18
47	Artificial Intelligence and headland-bay beaches. Coastal Engineering, 2010, 57, 176-183.	1.7	17
48	A review of reliability analysis of offshore scour protections. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2019, 172, 104-117.	1.4	16
49	Proof-of-concept study on a wave energy converter based on the roll oscillations of multipurpose offshore floating platforms. Energy Conversion and Management, 2020, 224, 113363.	4.4	16
50	On the Development of an Offshore Version of the CECO Wave Energy Converter. Energies, 2020, 13, 1036.	1.6	16
51	Influence of platform design and power take-off characteristics on the performance of the E-Motions wave energy converter. Energy Conversion and Management, 2021, 244, 114481.	4.4	16
52	Uplift and lateral buckling failure mechanisms of offshore pipes buried in normally consolidated clay. Engineering Failure Analysis, 2021, 121, 105161.	1.8	15
53	Review on layout optimization strategies of offshore parks for wave energy converters. Renewable and Sustainable Energy Reviews, 2022, 163, 112513.	8.2	15
54	RANS-VOF modelling of the hydraulic performance of the LOWREB caisson. Coastal Engineering, 2018, 140, 161-174.	1.7	14

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55	Performance of submerged nearshore sand-filled geosystems for coastal protection. Coastal Engineering, 2015, 95, 147-159.	1.7	13
56	Experimental study of the hydraulic efficiency of a novel perforated-wall caisson concept, the LOWREB. Coastal Engineering, 2017, 126, 69-80.	1.7	12
57	Physical modelling of dynamic scour protections: analysis of the damage number. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2018, 171, 11-24.	1.4	12
58	A vulnerability analysis approach for the Portuguese West Coast. WIT Transactions on Ecology and the Environment, 2006, , .	0.0	12
59	Efficiency analysis to reflection of a new quay wall type. Journal of Hydraulic Research/De Recherches Hydrauliques, 2011, 49, 539-546.	0.7	11
60	Artificial intelligence applied to plane wave reflection at submerged breakwaters. Journal of Hydraulic Research/De Recherches Hydrauliques, 2011, 49, 465-472.	0.7	11
61	Combined solutions to reduce scour around complex foundations: an experimental study. Marine Systems and Ocean Technology, 2020, 15, 81-93.	0.5	11
62	Experimental study of solutions to reduce downtime problems in ocean facing ports: the Port of LeixÃµes, Portugal, case study. Journal of Applied Water Engineering and Research, 2013, 1, 80-90.	1.0	10
63	Morphological and statistical analysis of the impact of breakwaters under construction on a sand spit area (Douro River estuary). Journal of Coastal Conservation, 2014, 18, 177-191.	0.7	10
64	Wave energy flux variability and trend along the United Arab Emirates coastline based on a 40-year hindcast. Renewable Energy, 2020, 160, 1194-1205.	4.3	10
65	Geometry assessment of a sloped type wave energy converter. Renewable Energy, 2021, 171, 672-686.	4.3	10
66	Damage evolution in single-layer cube armoured breakwaters with a regular placement pattern. Coastal Engineering, 2021, 169, 103943.	1.7	10
67	Single-layer cube armoured breakwaters: Critical review and technical challenges. Ocean Engineering, 2020, 216, 108042.	1.9	9
68	Dam spillways and the SPH method: two case studies in Portugal. Journal of Applied Water Engineering and Research, 2019, 7, 228-245.	1.0	8
69	Proof of Concept of a Breakwater-Integrated Hybrid Wave Energy Converter Using a Composite Modelling Approach. Journal of Marine Science and Engineering, 2021, 9, 226.	1.2	8
70	New developments in assessment of wave overtopping on single-layer cube armoured breakwaters based on laboratory experiments. Coastal Engineering, 2021, 166, 103883.	1.7	8
71	Hydraulic and Structural Assessment of a Rubble-Mound Breakwater with a Hybrid Wave Energy Converter. Journal of Marine Science and Engineering, 2021, 9, 922.	1.2	8
72	Feasibility of a Dynamically Stable Rock Armour Layer Scour Protection for Offshore Wind Farms. , 2014, , .		8

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73	Probabilistic Comparison of Static and Dynamic Failure Criteria of Scour Protections. Journal of Marine Science and Engineering, 2019, 7, 400.	1.2	7
74	Overview of Large-Scale Smoothed Particle Hydrodynamics Modeling of Dam Hydraulics. Journal of Hydraulic Engineering, 2020, 146, .	0.7	7
75	Bottom supported tension leg tower with inclined tethers for offshore wind turbines. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 0, , 1-32.	1.4	7
76	Coastal Erosion Along the Portuguese Northwest Coast Due to Changing Sediment Discharges from Rivers and Climate Change. Coastal Research Library, 2011, , 135-151.	0.2	7
77	OPTIMIZATION OF THE WAVECAT WAVE ENERGY CONVERTER. Coastal Engineering Proceedings, 2012, 1, 5.	0.1	7
78	Hybrid Systems for Marine Energy Harvesting. Journal of Marine Science and Engineering, 2022, 10, 633.	1.2	7
79	A comparative study of greywater from domestic and public buildings. Water Science and Technology: Water Supply, 2014, 14, 135-141.	1.0	6
80	Development of a numerical model of the CECO wave energy converter using computational fluid dynamics. Ocean Engineering, 2021, 219, 108416.	1.9	6
81	Offshore pipeline buried in Indian coastal clay: buckling behaviour analysis. Ships and Offshore Structures, 2022, 17, 1565-1580.	0.9	6
82	Novel time-efficient approach to calibrate VARANS-VOF models for simulation of wave interaction with porous structures using Artificial Neural Networks. Ocean Engineering, 2021, 235, 109375.	1.9	6
83	Wave energy converters design combining hydrodynamic performance and structural assessment. Energy, 2022, 249, 123641.	4.5	6
84	Analysis of the Waterâ€“Energy Nexus of Treated Wastewater Reuse at a Municipal Scale. Water (Switzerland), 2021, 13, 1911.	1.2	5
85	COASTAL EVOLUTION AND COASTAL WORKS IN THE SOUTHERN PART OF AVEIRO LAGOON INLET, PORTUGAL. , 2005, , .		4
86	Coastal management: Issues and tools. Introduction. Journal of Coastal Conservation, 2004, 10, 3.	0.7	3
87	Specific kinetic energy concept for regular waves. Ocean Engineering, 2006, 33, 1283-1298.	1.9	3
88	GIS Tool for Coastal Morphodynamics Analysis. Coastal Systems and Continental Margins, 2010, , 275-283.	0.0	3
89	Coastal morphodynamic features/patterns analisys through a video-based system and image processing. , 2012, , .		3
90	REHABILITATION STUDY OF COASTAL DEFENSE WORKS AND ARTIFICIAL SAND NOURISHMENT AT COSTA DA CAPARICA, PORTUGAL. , 2005, , .		3

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91	Analysis of the wave-flow interaction with submerged breakwaters. WIT Transactions on Modelling and Simulation, 2007, , .	0.0	3
92	Spatial Regular Wave Velocity Field Measurements Near Submerged Breakwaters. , 2002, , 1136.		2
93	Environmental aspects of using detached breakwaters for coastal protection purposes. Management of Environmental Quality, 2004, 15, 62-71.	2.2	2
94	Regular water wave measurements near submerged breakwaters. Measurement Science and Technology, 2005, 16, 1883-1888.	1.4	2
95	Beach Hydromorphological Analysis Through Remote Sensing. Journal of Coastal Research, 2011, 61, 44-51.	0.1	2
96	DGPS based methods to obtain beach cusp dimensions.. Journal of Coastal Research, 2013, 65, 541-546.	0.1	2
97	An experimental technique to track mooring cables in small scale models using image processing. Ocean Engineering, 2016, 111, 439-448.	1.9	2
98	Measuring damage in physical model tests of rubble mounds. , 2018, , .		2
99	Experimental Assessment of the Performance of CECO Wave Energy Converter in Irregular Waves. Journal of Offshore Mechanics and Arctic Engineering, 2019, 141, .	0.6	2
100	Harnessing the kinetic and potential wave energy: Design and development of a new wave energy converter. , 2015, , 367-374.		2
101	Design of scour protections and structural reliability techniques. , 2016, , 527-532.		2
102	Application of GIS tools for LeÃ§a River Basin soil erosion (Northern Portugal) evaluation. , 2009, , .		2
103	Nota Editorial - GestÃ£o e planeamento integrado das zonas costeiras da CPLP - Parte 1. Journal of Integrated Coastal Zone Management, 2020, 20, 85-87.	0.2	2
104	Anthropogenic influences on Integrated Coastal Zone Management. Journal of Integrated Coastal Zone Management, 2020, 20, 215-217.	0.2	2
105	Detailed laser Doppler measurements of two-dimensional regular waves over submerged breakwaters. Journal of Hydraulic Research/De Recherches Hydrauliques, 2003, 41, 579-587.	0.7	1
106	Two-Dimensional Physical Modeling of the Northern Breakwater of LeixÃµes Harbor, Portugal: Case Study. Journal of Waterway, Port, Coastal and Ocean Engineering, 2009, 135, 288-295.	0.5	1
107	Beach hydromorphological classification through image classification techniques applied to remotely sensed data. , 2009, , .		1
108	Coastal features analysis using GIS toolsâ€“stretch Esmoriz-Furadouro. Journal of Coastal Conservation, 2012, 16, 269-279.	0.7	1

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109	Experimental Assessment of the Performance of CECO Wave Energy Converter in Irregular Waves. , 2018, , .		1
110	Brief review on the limit state function of dynamic scour protections. IOP Conference Series: Materials Science and Engineering, 2019, 700, 012027.	0.3	1
111	Integrated Coastal Zone Management: preservation, adaptation and monitoring. Journal of Integrated Coastal Zone Management, 2021, 21, 5-9.	0.2	1
112	Single-phase SPH modelling of plunge pool dynamic pressures at a near-prototype scale. Journal of Hydraulic Research/De Recherches Hydrauliques, 0, , 1-15.	0.7	1
113	Real-Time Tracking System for a Moored Oil Tanker: A Kalman Filter Approach. Lecture Notes in Mechanical Engineering, 2013, , 749-760.	0.3	1
114	Advanced Experimenting on Wave Interaction with Low-Crested Breakwaters. International Journal of Multiphysics, 2010, 4, 187-199.	0.3	1
115	Dynamic pressure evaluation near submerged breakwaters. WIT Transactions on Engineering Sciences, 2006, , .	0.0	1
116	Vulnerability, sensibility or coastal indicators? A preliminary analysis for a methodology of risk analysis. WIT Transactions on Information and Communication Technologies, 2008, , .	0.0	1
117	Galgamento de uma estrutura portuÃ¡ria protegida por um quebra-mar submerso: o caso do porto de LeixÃµes, Portugal. Journal of Integrated Coastal Zone Management, 2016, 16, 121-131.	0.2	1
118	NUMERICAL MODELLING AND POWER TAKE OFF CHARACTERIZATION OF A WAVE ENERGY CONVERTER WITH BOUNDARY ELEMENT METHOD. Coastal Engineering Proceedings, 2017, , 27.	0.1	1
119	How can remote sensing data/techniques help us to understand beach hydromorphological behavior?. , 2011, , .		1
120	A Novel 2-D Point Absorber Numerical Modelling Method. Inventions, 2021, 6, 75.	1.3	1
121	Nota Editorial - GestÃ£o e planeamento integrado das zonas costeiras da CPLP - Parte 2. Journal of Integrated Coastal Zone Management, 2020, 20, 157-160.	0.2	1
122	Hydrokinetic Power Resource Assessment in a Combined Estuarine and River Region. Sustainability, 2022, 14, 2606.	1.6	1
123	Analysis of the Behavior of Moored Tankers. , 2008, , .		0
124	GIS and web-based information as innovative tools for coastal zone management. Journal of Coastal Conservation, 2012, 16, 429-429.	0.7	0
125	People, Communities, and Education at the Coast. Journal of Coastal Conservation, 2012, 16, 521-521.	0.7	0
126	Modelling of the coastal defence scheme of Espinho, Portugal. Journal of Coastal Conservation, 2012, 16, 211-221.	0.7	0

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127	The Wave Energy Converter CECO: Current Status and Future Perspectives. Proceedings (mdpi), 2018, 2, .	0.2	0
128	Environmental implications of the EUrosion project recommendations. WIT Transactions on Ecology and the Environment, 2006, , .	0.0	0
129	MONITORING OF THE COASTAL DEFENCE WORKS OF COSTA DA CAPARICA, PORTUGAL. , 2007, , .		0
130	VELOCITY AT THE SURFACE AND DYNAMIC PRESSURE MEASUREMENTS ON SUBMERGED BREAKWATERS. , 2009, , .		0
131	Experimental study of a new low reflection breakwater. , 2016, , 1159-1166.		0
132	Numerical simulation and validation of CECO wave energy converter. , 2016, , 254-260.		0
133	Optimization of wave energy converters in the OPWEC project. , 2018, , 657-665.		0
134	Experimental study of two mooring systems for wave energy converters. , 2018, , 667-676.		0
135	Modelling of the coastal defence scheme of Espinho, Portugal. Journal of Coastal Conservation, 0, , .	0.7	0
136	Recent work and prospective analysis on offshore structures and marine energy harvesting at the Faculty of Engineering of the University of Porto. IOP Conference Series: Materials Science and Engineering, 2021, 1201, 012043.	0.3	0