

Carlos Guedes Soares

List of Publications by Citations

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1,218
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23,886
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67
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g-index

1,398
ext. papers

29,470
ext. citations

3.6
avg, IF

8.14
L-index

#	Paper	IF	Citations
1218	Uncertainties in probabilistic numerical analysis of structures and solids-Stochastic finite elements. <i>Structural Safety</i> , 1997 , 19, 283-336	4.9	265
1217	A new trigonometric shear deformation theory for isotropic, laminated composite and sandwich plates. <i>International Journal of Solids and Structures</i> , 2012 , 49, 43-53	3.1	252
1216	A new higher order shear deformation theory for sandwich and composite laminated plates. <i>Composites Part B: Engineering</i> , 2012 , 43, 1489-1499	10	217
1215	Static and dynamic analysis of laminated composite and sandwich plates and shells by using a new higher-order shear deformation theory. <i>Composite Structures</i> , 2011 , 94, 37-49	5.3	202
1214	Review and application of Artificial Neural Networks models in reliability analysis of steel structures. <i>Structural Safety</i> , 2015 , 52, 78-89	4.9	197
1213	Risk assessment in maritime transportation. <i>Reliability Engineering and System Safety</i> , 2001 , 74, 299-309	6.3	187
1212	Use of AIS Data to Characterise Marine Traffic Patterns and Ship Collision Risk off the Coast of Portugal. <i>Journal of Navigation</i> , 2013 , 66, 879-898	2.3	174
1211	Wave energy assessments in the Azores islands. <i>Renewable Energy</i> , 2012 , 45, 183-196	8.1	164
1210	Reliability of pipelines with corrosion defects. <i>International Journal of Pressure Vessels and Piping</i> , 2008 , 85, 228-237	2.4	158
1209	Influence of environmental factors on corrosion of ship structures in marine atmosphere. <i>Corrosion Science</i> , 2009 , 51, 2014-2026	6.8	144
1208	Representation of double-peaked sea wave spectra. <i>Ocean Engineering</i> , 1984 , 11, 185-207	3.9	143
1207	Numerical modelling to estimate the spatial distribution of the wave energy in the Portuguese nearshore. <i>Renewable Energy</i> , 2009 , 34, 1501-1516	8.1	133
1206	Simulation modelling of repairable multi-component deteriorating systems for condition-based maintenance optimisation. <i>Reliability Engineering and System Safety</i> , 2002 , 76, 255-264	6.3	127
1205	Maritime Traffic Monitoring Based on Vessel Detection, Tracking, State Estimation, and Trajectory Prediction. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012 , 13, 1188-1200	6.1	125
1204	Evaluation of Various Technologies for Wave Energy Conversion in the Portuguese Nearshore. <i>Energies</i> , 2013 , 6, 1344-1364	3.1	123
1203	44-year wave hindcast for the North East Atlantic European coast. <i>Coastal Engineering</i> , 2008 , 55, 861-871	4.8	116
1202	Adaptive surrogate model with active refinement combining Kriging and a trust region method. <i>Reliability Engineering and System Safety</i> , 2017 , 165, 277-291	6.3	114

1201	OC5 Project Phase II: Validation of Global Loads of the DeepCwind Floating Semisubmersible Wind Turbine. <i>Energy Procedia</i> , 2017 , 137, 38-57	2.3	112
1200	Bending response of functionally graded plates by using a new higher order shear deformation theory. <i>Composite Structures</i> , 2012 , 94, 714-723	5.3	112
1199	Spectral stochastic finite element analysis for laminated composite plates. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008 , 197, 4830-4839	5.7	110
1198	Assessment of the efficiency of Kriging surrogate models for structural reliability analysis. <i>Probabilistic Engineering Mechanics</i> , 2014 , 37, 24-34	2.6	109
1197	Path following control system for a tanker ship model. <i>Ocean Engineering</i> , 2007 , 34, 2074-2085	3.9	109
1196	Tensile strength assessment of corroded small scale specimens. <i>Corrosion Science</i> , 2014 , 85, 296-303	6.8	106
1195	Fuzzy logic based decision making system for collision avoidance of ocean navigation under critical collision conditions. <i>Journal of Marine Science and Technology</i> , 2011 , 16, 84-99	1.7	104
1194	Uncertainty modelling in plate buckling. <i>Structural Safety</i> , 1988 , 5, 17-34	4.9	100
1193	An Evidential Reasoning-Based CREAM to Human Reliability Analysis in Maritime Accident Process. <i>Risk Analysis</i> , 2017 , 37, 1936-1957	3.9	99
1192	Characteristics of abnormal waves in North Sea storm sea states. <i>Applied Ocean Research</i> , 2003 , 25, 337-344	3.4	98
1191	A novel higher-order shear deformation theory with stretching effect for functionally graded plates. <i>Composites Part B: Engineering</i> , 2013 , 45, 268-281	10	94
1190	An Application of the Peaks Over Threshold Method to Predict Extremes of Significant Wave Height. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 1998 , 120, 165-176	1.5	94
1189	A distributed anti-collision decision support formulation in multi-ship encounter situations under COLREGs. <i>Ocean Engineering</i> , 2015 , 105, 336-348	3.9	93
1188	Analysis of directional wave fields using X-band navigation radar. <i>Coastal Engineering</i> , 2000 , 40, 375-391	4.8	91
1187	Application of the r largest-order statistics for long-term predictions of significant wave height. <i>Coastal Engineering</i> , 2004 , 51, 387-394	4.8	88
1186	Wave energy pattern around the Madeira Islands. <i>Energy</i> , 2012 , 45, 771-785	7.9	87
1185	Bending analysis of thick exponentially graded plates using a new trigonometric higher order shear deformation theory. <i>Composite Structures</i> , 2012 , 94, 1991-2000	5.3	87
1184	Design equation for the compressive strength of unstiffened plate elements with initial imperfections. <i>Journal of Constructional Steel Research</i> , 1988 , 9, 287-310	3.8	87

1183	Time-Domain Analysis of Large-Amplitude Vertical Ship Motions and Wave Loads. <i>Journal of Ship Research</i> , 1998 , 42, 139-153	0.9	87
1182	Modeling the fate of oil spills at sea. <i>Spill Science and Technology Bulletin</i> , 1995 , 2, 121-131		85
1181	Incorporating evidential reasoning and TOPSIS into group decision-making under uncertainty for handling ship without command. <i>Ocean Engineering</i> , 2018 , 164, 590-603	3.9	83
1180	Maritime Transportation Risk Assessment of Tianjin Port with Bayesian Belief Networks. <i>Risk Analysis</i> , 2016 , 36, 1171-87	3.9	82
1179	Review of the current status, technology and future trends of offshore wind farms. <i>Ocean Engineering</i> , 2020 , 209, 107381	3.9	81
1178	Experimental Investigation of the Nonlinear Effects on the Vertical Motions and Loads of a Containership in Regular Waves. <i>Journal of Ship Research</i> , 2004 , 48, 118-147	0.9	81
1177	Classification of human errors in grounding and collision accidents using the TRACER taxonomy. <i>Safety Science</i> , 2016 , 86, 245-257	5.8	80
1176	Development of a ship weather routing system. <i>Ocean Engineering</i> , 2016 , 123, 1-14	3.9	78
1175	Stepped sea bottom effects on the efficiency of nearshore oscillating water column device. <i>Ocean Engineering</i> , 2013 , 70, 25-38	3.9	77
1174	Approximate Assessment of the Ultimate Longitudinal Strength of the Hull Girder. <i>Journal of Ship Research</i> , 1996 , 40, 60-69	0.9	77
1173	Generalized hybrid quasi-3D shear deformation theory for the static analysis of advanced composite plates. <i>Composite Structures</i> , 2012 , 94, 2561-2575	5.3	76
1172	Wave energy conditions in the western French coast. <i>Renewable Energy</i> , 2014 , 62, 155-163	8.1	75
1171	Intelligent Ocean Navigation and Fuzzy-Bayesian Decision/Action Formulation. <i>IEEE Journal of Oceanic Engineering</i> , 2012 , 37, 204-219	3.3	75
1170	Corrosion wastage model for ship crude oil tanks. <i>Corrosion Science</i> , 2008 , 50, 3095-3106	6.8	75
1169	Cost and reliability based strategies for fatigue maintenance planning of floating structures. <i>Reliability Engineering and System Safety</i> , 2001 , 73, 293-301	6.3	74
1168	Numerical study on the water impact of 3D bodies by an explicit finite element method. <i>Ocean Engineering</i> , 2014 , 78, 73-88	3.9	73
1167	Assessment of wave energy in the Canary Islands. <i>Renewable Energy</i> , 2014 , 68, 774-784	8.1	73
1166	Dynamic model of manoeuvrability using recursive neural networks. <i>Ocean Engineering</i> , 2003 , 30, 1669-1697	3.9	73

1165	Modelling uncertainty in long-term predictions of significant wave height. <i>Ocean Engineering</i> , 2001 , 28, 329-342	3.9	73
1164	Experimental Evaluations on Ship Autonomous Navigation and Collision Avoidance by Intelligent Guidance. <i>IEEE Journal of Oceanic Engineering</i> , 2015 , 40, 374-387	3.3	72
1163	Coastal impact induced by a Pelamis wave farm operating in the Portuguese nearshore. <i>Renewable Energy</i> , 2013 , 58, 34-49	8.1	72
1162	Nonlinear Time Dependent Corrosion Wastage of Deck Plates of Ballast and Cargo Tanks of Tankers. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2007 , 129, 48-55	1.5	71
1161	Analytical and numerical study of dual-chamber oscillating water columns on stepped bottom. <i>Renewable Energy</i> , 2015 , 75, 272-282	8.1	70
1160	Ultimate strength assessment of rectangular steel plates subjected to a random localised corrosion degradation. <i>Engineering Structures</i> , 2013 , 52, 295-305	4.7	70
1159	The use of quasi-static testing to obtain the low-velocity impact damage resistance of marine GRP laminates. <i>Composites Part B: Engineering</i> , 2012 , 43, 1459-1467	10	70
1158	Fatigue reliability of the ship hull girder accounting for inspection and repair. <i>Reliability Engineering and System Safety</i> , 1996 , 51, 341-351	6.3	70
1157	On the failure criterion of aluminum and steel plates subjected to low-velocity impact by a spherical indenter. <i>International Journal of Mechanical Sciences</i> , 2014 , 80, 1-15	5.5	68
1156	A new trigonometric layerwise shear deformation theory for the finite element analysis of laminated composite and sandwich plates. <i>Computers and Structures</i> , 2012 , 94-95, 45-53	4.5	68
1155	Analysis of isotropic and multilayered plates and shells by using a generalized higher-order shear deformation theory. <i>Composite Structures</i> , 2012 , 94, 2640-2656	5.3	67
1154	Modelling bivariate distributions of significant wave height and mean wave period. <i>Applied Ocean Research</i> , 2002 , 24, 31-45	3.4	67
1153	Reliability of maintained ship hulls subjected to corrosion and fatigue under combined loading. <i>Journal of Constructional Steel Research</i> , 1999 , 52, 93-115	3.8	67
1152	On the occurrence of double peaked wave spectra. <i>Ocean Engineering</i> , 1991 , 18, 167-171	3.9	67
1151	Impact characterisation of low fibre-volume glass reinforced polyester circular laminated plates. <i>International Journal of Impact Engineering</i> , 2005 , 31, 1-23	4	66
1150	Modelling distributions of significant wave height. <i>Coastal Engineering</i> , 2000 , 40, 361-374	4.8	65
1149	Experimental assessment of the ultimate strength of a box girder subjected to severe corrosion. <i>Marine Structures</i> , 2011 , 24, 338-357	3.8	64
1148	A new tangential-exponential higher order shear deformation theory for advanced composite plates. <i>Composites Part B: Engineering</i> , 2014 , 60, 319-328	10	63

1147	Numerical evaluation of the wave energy resource along the Atlantic European coast. <i>Computers and Geosciences</i> , 2014 , 71, 37-49	4.5	63
1146	Numerical and experimental study of hydrodynamic impact and elastic response of one free-drop wedge with stiffened panels. <i>Ocean Engineering</i> , 2012 , 40, 1-14	3.9	63
1145	High resolution local wave energy modelling in the Iberian Peninsula. <i>Energy</i> , 2015 , 91, 1099-1112	7.9	63
1144	Reliability and residual strength of double hull tankers designed according to the new IACS common structural rules. <i>Ocean Engineering</i> , 2009 , 36, 1446-1459	3.9	63
1143	Effect of environmental factors on steel plate corrosion under marine immersion conditions. <i>Corrosion Engineering Science and Technology</i> , 2011 , 46, 524-541	1.7	62
1142	Pre-filtered sliding mode control for nonlinear ship steering associated with disturbances. <i>Ocean Engineering</i> , 2012 , 51, 49-62	3.9	61
1141	Influence of boundary conditions on the collapse behaviour of stiffened panels under combined loads. <i>Marine Structures</i> , 2013 , 34, 205-225	3.8	61
1140	Slam induced loads on bow-flared sections with various roll angles. <i>Ocean Engineering</i> , 2013 , 67, 45-57	3.9	61
1139	An algorithm for offline identification of ship manoeuvring mathematical models from free-running tests. <i>Ocean Engineering</i> , 2014 , 79, 10-25	3.9	61
1138	Fuzzy logic based approach for ship-bridge collision alert system. <i>Ocean Engineering</i> , 2019 , 187, 106152	3.9	60
1137	Hindcast of the wave conditions along the west Iberian coast. <i>Coastal Engineering</i> , 2008 , 55, 906-919	4.8	60
1136	Identification of the components of wave spectra by the Hilbert Huang transform method. <i>Applied Ocean Research</i> , 2004 , 26, 1-12	3.4	60
1135	The effects of test parameters on the impact response of glass reinforced plastic using an experimental design approach. <i>Composites Science and Technology</i> , 2003 , 63, 1-18	8.6	60
1134	Modeling freak waves from the North Sea. <i>Applied Ocean Research</i> , 2005 , 27, 12-22	3.4	60
1133	Power take-off concept for wave energy converters based on oil-hydraulic transformer units. <i>Renewable Energy</i> , 2016 , 86, 1232-1246	8.1	59
1132	Experimental and numerical investigation of the hydrodynamic performance of an oscillating water column wave energy converter. <i>Renewable Energy</i> , 2017 , 106, 1-16	8.1	59
1131	Causal factors in accidents of high-speed craft and conventional ocean-going vessels. <i>Reliability Engineering and System Safety</i> , 2008 , 93, 1292-1304	6.3	58
1130	Ship trajectory uncertainty prediction based on a Gaussian Process model. <i>Ocean Engineering</i> , 2019 , 182, 499-511	3.9	57

1129	Evaluation of the wave conditions in Madeira Archipelago with spectral models. <i>Ocean Engineering</i> , 2008 , 35, 1357-1371	3.9	57
1128	A 40 Year Hindcast of Wind, Sea Level and Waves in European Waters 2002 , 669		56
1127	Reliability of Maintained Ship Hulls Subjected to Corrosion. <i>Journal of Ship Research</i> , 1996 , 40, 235-243	0.9	56
1126	Bending and free vibration analysis of isotropic and multilayered plates and shells by using a new accurate higher-order shear deformation theory. <i>Composites Part B: Engineering</i> , 2012 , 43, 3348-3360	10	55
1125	Reliability of maintained ship hull girders subjected to corrosion and fatigue. <i>Structural Safety</i> , 1998 , 20, 201-219	4.9	55
1124	Fault-tree models of accident scenarios of RoPax vessels. <i>International Journal of Automation and Computing</i> , 2006 , 3, 107-116	3.5	55
1123	Fatigue damage assessment of fixed offshore wind turbine tripod support structures. <i>Engineering Structures</i> , 2015 , 101, 518-528	4.7	54
1122	Collision risk detection and quantification in ship navigation with integrated bridge systems. <i>Ocean Engineering</i> , 2015 , 109, 344-354	3.9	54
1121	Wind resource assessment offshore the Atlantic Iberian coast with the WRF model. <i>Energy</i> , 2018 , 145, 276-287	7.9	54
1120	Static response of functionally graded plates and doubly-curved shells based on a higher order shear deformation theory. <i>European Journal of Mechanics, A/Solids</i> , 2012 , 36, 163-172	3.7	54
1119	H_{∞} and H_2 Designs for Diving and Course Control of an Autonomous Underwater Vehicle in Presence of Waves. <i>IEEE Journal of Oceanic Engineering</i> , 2008 , 33, 69-88	3.3	54
1118	Structural reliability of two bulk carrier designs. <i>Marine Structures</i> , 2000 , 13, 107-128	3.8	54
1117	Combination of primary load effects in ship structures. <i>Probabilistic Engineering Mechanics</i> , 1992 , 7, 103-116	1.6	54
1116	Reliability analysis of a floating offshore wind turbine using Bayesian Networks. <i>Ocean Engineering</i> , 2020 , 217, 107827	3.9	54
1115	Effect of corrosion severity on the ultimate strength of a steel box girder. <i>Engineering Structures</i> , 2013 , 49, 560-571	4.7	52
1114	Finite element formulation of a generalized higher order shear deformation theory for advanced composite plates. <i>Composite Structures</i> , 2013 , 96, 545-553	5.3	52
1113	Mathematical models for ship path prediction in manoeuvring simulation systems. <i>Ocean Engineering</i> , 2002 , 29, 1-19	3.9	52
1112	Approximate method to evaluate the hull girder collapse strength. <i>Marine Structures</i> , 1996 , 9, 449-470	3.8	52

1111	Time-dependent reliability of the primary ship structure. <i>Reliability Engineering and System Safety</i> , 1989 , 26, 59-71	6.3	52
1110	Assessment of the uncertainty in visual observations of wave height. <i>Ocean Engineering</i> , 1986 , 13, 37-56	3.9	52
1109	Optimized sinusoidal higher order shear deformation theory for the analysis of functionally graded plates and shells. <i>Composites Part B: Engineering</i> , 2014 , 56, 126-136	10	51
1108	Steepness and asymmetry of the largest waves in storm sea states. <i>Ocean Engineering</i> , 2004 , 31, 1147-1167	3.7	51
1107	Spectral Modeling of Sea States With Multiple Wave Systems. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 1992 , 114, 278-284	1.5	51
1106	Data mining approach to shipping route characterization and anomaly detection based on AIS data. <i>Ocean Engineering</i> , 2020 , 198, 106936	3.9	50
1105	Analysis of plate deflections during ultimate strength experiments of corroded box girders. <i>Thin-Walled Structures</i> , 2012 , 54, 164-176	4.7	49
1104	Bivariate autoregressive models for the time series of significant wave height and mean period. <i>Coastal Engineering</i> , 2000 , 40, 297-311	4.8	49
1103	Uncertainty of Ocean Wave Hindcasts Due to Wind Modeling. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 1995 , 117, 294-297	1.5	49
1102	A trigonometric plate theory with 5-unknowns and stretching effect for advanced composite plates. <i>Composite Structures</i> , 2014 , 107, 396-405	5.3	48
1101	Tests on ultimate strength of hull box girders made of high tensile steel. <i>Marine Structures</i> , 2009 , 22, 770-790	3.8	48
1100	Numerical modelling of the boundary conditions on beams struck transversely by a mass. <i>International Journal of Impact Engineering</i> , 2011 , 38, 384-396	4	48
1099	Abnormal waves during Hurricane Camille. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		48
1098	Impact on low fibre-volume, glass/polyester rectangular plates. <i>Composite Structures</i> , 2005 , 68, 13-22	5.3	48
1097	Experimental Investigation of the Nonlinear Effects on the Statistics of Vertical Motions and Loads of a Containership in Irregular Waves. <i>Journal of Ship Research</i> , 2004 , 48, 148-167	0.9	48
1096	Numerical and experimental studies on temperature and distortion patterns in butt-welded plates. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 72, 1121-1131	3.2	47
1095	Wave transformation due to multiple bottom-standing porous barriers. <i>Ocean Engineering</i> , 2014 , 80, 50-63	3.9	47
1094	Ultimate capacity of rectangular plates with partial depth pits under uniaxial loads. <i>Marine Structures</i> , 2012 , 26, 27-41	3.8	47

1093	Review of mooring design for floating wave energy converters. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 111, 595-621	16.2	46
1092	The wind sea and swell waves climate in the Nordic seas. <i>Ocean Dynamics</i> , 2015 , 65, 223-240	2.3	46
1091	Palmgren-Miner's rule and fracture mechanics-based inspection planning. <i>Engineering Fracture Mechanics</i> , 2011 , 78, 3166-3182	4.2	46
1090	Contact indentation of marine composites. <i>Composite Structures</i> , 2005 , 70, 287-294	5.3	46
1089	Design equation for ship plate elements under uniaxial compression. <i>Journal of Constructional Steel Research</i> , 1992 , 22, 99-114	3.8	46
1088	Wind and wave modelling in the Black Sea. <i>Journal of Operational Oceanography</i> , 2014 , 7, 5-20	2.9	45
1087	Modelling of multipeaked directional wave spectra. <i>Applied Ocean Research</i> , 2009 , 31, 132-141	3.4	45
1086	Sensitivity of wave model predictions to wind fields in the Western Mediterranean sea. <i>Coastal Engineering</i> , 2008 , 55, 920-929	4.8	45
1085	Compressive strength of rectangular plates under biaxial load and lateral pressure. <i>Thin-Walled Structures</i> , 1996 , 24, 231-259	4.7	45
1084	Fault Tree Analysis of floating offshore wind turbines. <i>Renewable Energy</i> , 2019 , 133, 1455-1467	8.1	45
1083	Experimental study on collapse of cracked stiffened plate with initial imperfections under compression. <i>Thin-Walled Structures</i> , 2017 , 114, 39-51	4.7	44
1082	Weather routing and safe ship handling in the future of shipping. <i>Ocean Engineering</i> , 2017 , 130, 684-695	3.9	44
1081	Estimation of Wind-Sea and Swell Components in a Bimodal Sea State. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2006 , 128, 265-270	1.5	44
1080	Dynamic response of rectangular plates of composite materials subjected to impact loads. <i>Composite Structures</i> , 1996 , 34, 55-63	5.3	44
1079	Modeling multivariate ocean data using asymmetric copulas. <i>Coastal Engineering</i> , 2018 , 135, 91-111	4.8	43
1078	Fatigue strength experiments of corroded small scale steel specimens. <i>International Journal of Fatigue</i> , 2014 , 59, 137-144	5	43
1077	Numerical modelling of the wave energy in Galway Bay. <i>Renewable Energy</i> , 2015 , 78, 457-466	8.1	43
1076	Nonlinear Schrödinger invariants and wave statistics. <i>Physics of Fluids</i> , 2010 , 22, 036601	4.4	43

1075	Bayesian inference for long-term prediction of significant wave height. <i>Coastal Engineering</i> , 2007 , 54, 393-400	4.8	43
1074	Reliability analysis of a ship hull in composite material. <i>Composite Structures</i> , 2003 , 62, 59-66	5.3	43
1073	Comparative study on the time-domain analysis of non-linear ship motions and loads. <i>Marine Structures</i> , 1999 , 12, 153-170	3.8	43
1072	Experimental and numerical study of the slamming load on the bow of a chemical tanker in irregular waves. <i>Ocean Engineering</i> , 2016 , 111, 369-383	3.9	42
1071	Bivariate maximum entropy distribution of significant wave height and peak period. <i>Ocean Engineering</i> , 2013 , 59, 86-99	3.9	42
1070	Longitudinal strength reliability of a tanker hull accidentally grounded. <i>Structural Safety</i> , 2009 , 31, 224-233	4.3	42
1069	Compressive tests on short continuous panels. <i>Marine Structures</i> , 2008 , 21, 113-137	3.8	42
1068	Behavior of composite laminates with embedded delaminations. <i>Composite Structures</i> , 2016 , 150, 226-239	3.9	42
1067	Cost assessment methodology for combined wind and wave floating offshore renewable energy systems. <i>Renewable Energy</i> , 2016 , 97, 866-880	8.1	41
1066	Vector field path following for surface marine vessel and parameter identification based on LS-SVM. <i>Ocean Engineering</i> , 2016 , 113, 151-161	3.9	41
1065	Kalman filtering of vessel motions for ocean wave directional spectrum estimation. <i>Ocean Engineering</i> , 2009 , 36, 477-488	3.9	41
1064	Comparison of numerical and experimental results of nonlinear wave-induced vertical ship motions and loads. <i>Journal of Marine Science and Technology</i> , 2002 , 6, 193-204	1.7	41
1063	Degradation of the compressive strength of rectangular plates due to initial deflection. <i>Thin-Walled Structures</i> , 2005 , 43, 65-82	4.7	41
1062	Impact behaviour of typical marine composite laminates. <i>Composites Part B: Engineering</i> , 2005 , 37, 89-100	4.0	41
1061	On the choice of data transformation for modelling time series of significant wave height. <i>Ocean Engineering</i> , 1999 , 26, 489-506	3.9	41
1060	Impact tests on woven-rovings E-glass/polyester laminates. <i>Composites Science and Technology</i> , 1999 , 59, 1553-1567	8.6	41
1059	Abnormal Wave-Induced Load Effects in Ship Structures. <i>Journal of Ship Research</i> , 2008 , 52, 30-44	0.9	41
1058	Generalized layerwise HSDT and finite element formulation for symmetric laminated and sandwich composite plates. <i>Composite Structures</i> , 2013 , 105, 319-331	5.3	40

1057	Scattering of gravity waves by multiple surface-piercing floating membrane. <i>Applied Ocean Research</i> , 2013 , 39, 40-52	3.4	40
1056	Time domain modelling of the transient asymmetric flooding of Ro-Ro ships. <i>Ocean Engineering</i> , 2002 , 29, 667-688	3.9	40
1055	Modelling the long-term distribution of significant wave height with the Beta and Gamma models. <i>Ocean Engineering</i> , 1999 , 26, 713-725	3.9	40
1054	Wind loads on marine structures. <i>Marine Structures</i> , 1999 , 12, 199-209	3.8	40
1053	Assessments of wave energy in the Bohai Sea, China. <i>Renewable Energy</i> , 2016 , 90, 145-156	8.1	39
1052	Experimental study on the collapse strength of wide stiffened panels. <i>Marine Structures</i> , 2013 , 30, 33-62	3.8	39
1051	Evaluation of the wave energy resources in the Cape Verde Islands. <i>Renewable Energy</i> , 2017 , 101, 316-326	8.1	39
1050	Plastic Analysis of Laterally Loaded Circular Tubes. <i>Journal of Structural Engineering</i> , 1983 , 109, 451-467	3	39
1049	Wave energy assessment in the China adjacent seas on the basis of a 20-year SWAN simulation with unstructured grids. <i>Renewable Energy</i> , 2019 , 136, 275-295	8.1	39
1048	Reliability prediction of an offshore wind turbine gearbox. <i>Renewable Energy</i> , 2019 , 141, 693-706	8.1	38
1047	Crashworthiness analysis of polymer composites under axial and oblique impact loading. <i>International Journal of Mechanical Sciences</i> , 2019 , 156, 221-234	5.5	38
1046	Selection of maritime safety control options for NUC ships using a hybrid group decision-making approach. <i>Safety Science</i> , 2016 , 88, 108-122	5.8	38
1045	Experimental and numerical analysis of a tanker side panel laterally punched by a knife edge indenter. <i>Marine Structures</i> , 2014 , 37, 173-202	3.8	38
1044	Oblique wave interaction with a floating structure near a wall with stepped bottom. <i>Ocean Engineering</i> , 2011 , 38, 1528-1544	3.9	38
1043	Review of probabilistic models of the strength of composite materials. <i>Reliability Engineering and System Safety</i> , 1997 , 56, 183-196	6.3	38
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290	Partial Safety Factors Assessment for Double Hull Tankers Following the New Common Structural Rules 2008 ,		3
289	Non-Linear Time Domain Simulation of Dynamic Instabilities in Longitudinal Waves 2008 ,		3
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286	Collision avoidance, guidance and control system for autonomous surface vehicles in complex navigation conditions 2018 , 121-131		3
285	Influence of main engine control strategies on fuel consumption and emissions 2018 , 157-163		3
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235	Validation of a Regional Atmospheric Model for Assessing the Offshore Wind Resources Along the Portuguese Coast 2013 ,		2
234	On the Response of a Spar Floating Wind Turbine Under the Occurrence of Extreme Events 2013 ,		2
233	Reconstruction of Extreme Events Through Numerical Simulations 2011 ,		2
232	Experimental Investigation of the First and Second Order Wave Exciting Forces on a Restrained Body in Long Crested Irregular Waves 2011 ,		2
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222	Nondestructive Corrosion Inspection Modeling of Tanker Structures 2008 ,		2
221	The Effect of Third-Order Nonlinearities on the Statistical Distributions of Wave Heights, Crests and Troughs in Bimodal Crossing Seas 2011 ,		2
220	Hydrodynamic Interaction Forces on Ship Hulls Equipped With Propulsors 2012 ,		2
219	Analysis of Experimental Results on the Space-Time Evolution of Wave Groups in Crossing Seas 2013 ,		2
218	Corrosion wastage statistics and maintenance planning of corroded hull structures of bulk carriers 2009 , 215-222		2
217	Optimization scheme for the selection of the propeller in ship concept design 2018 , 233-239		2
216	Uncertainty propagation and sensitivity analysis of a laminated composite beam 2018 , 395-401		2
215	The potential offshore energy cluster in Portugal 2016 ,		2
214	Preliminary cost assessment of an offshore floating wind farm installation on the Galician coast 2016 ,		2
213	Experimental and numerical hydrodynamic coefficients of a containership in large amplitude heaving and pitching 2006 , 147-155		2
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209	Numerical and experimental study of ship-generated waves 2018 , 569-576		2
208	Causal Analysis of Accidents at Work in a Shipyard Complemented with Bayesian Nets Modelling 2018 , 421-430		2
207	Modelling dynamic maritime traffic complexity with radial distribution functions. <i>Ocean Engineering</i> , 2021 , 241, 109990	3.9	2
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204	Experimental and numerical buckling analysis of cylindrical pressure hulls with multi-circular openings. <i>Ocean Engineering</i> , 2020 , 214, 107689	3.9	2
203	A Fast Algorithm for the Prediction of Ship-Bank Interaction in Shallow Water. <i>Journal of Marine Science and Engineering</i> , 2020 , 8, 927	2.4	2
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189	Wave-Induced Vertical Motions and Bending Moments in Damaged Ships. <i>Journal of Marine Science and Application</i> , 2018 , 17, 389-405	1.2	2
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187	Parameters Estimation of Nonlinear Manoeuvring Model for Marine Surface Ship Based on PMM Tests 2018 ,		2
186	Numerical and Experimental Analysis of a Hybrid Wind-Wave Offshore Floating Platform Hull 2018 ,		2
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179	Convergence analysis of hydrodynamic coefficients estimation using regularization filter functions on free-running ship model tests with noise. <i>Ocean Engineering</i> , 2022 , 250, 111012	3.9	2
178	Uncertainties in long-term wave modelling. <i>Marine Structures</i> , 2022 , 84, 103217	3.8	2
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176	Risk-Based Multi-Objective Optimisation of a Monopile Offshore Wind Turbine Support Structure 2017 ,		1

175	Structural Reliability Assessment of an Oil Tanker Accidentally Grounded in the Adriatic Sea 2017 ,		1
174	Effect of Slamming and Green Water on Short-Term Distribution of Vertical Bending Moment of a Containership in Abnormal Waves. <i>Lecture Notes in Civil Engineering</i> , 2019 , 333-345	0.3	1
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168	Comparison study between the Fourier and the Hartley transforms for the real-time simulation of the sea surface elevation. <i>Applied Ocean Research</i> , 2018 , 74, 227-236	3.4	1
167	Hydrodynamic performance of concentric arrays of point absorbers. <i>The International Journal of Ocean and Climate Systems</i> , 2016 , 7, 88-94		1
166	Fast approach for ultimate strength assessment of steel box girders subjected to non-uniform corrosion degradation. <i>Corrosion Engineering Science and Technology</i> , 2016 , 51, 60-76	1.7	1
165	Shallow water effects on wave energy converters with hydraulic power take-off system. <i>The International Journal of Ocean and Climate Systems</i> , 2016 , 7, 108-117		1
164	Estimating Extreme Waves in Brazil Using Regional Frequency Analysis 2016 ,		1
163	Space-time evolution of wave groups in crossing seas with the Quasi-determinism theory. <i>Ocean Engineering</i> , 2014 , 91, 350-362	3.9	1
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159	Analytical and Numerical Study of Nearshore Multiple Oscillating Water Columns 2013 ,		1
158	Experimental and Numerical Extreme Motions and Vertical Bending Moments Induced by Abnormal Waves on a Bulk Carrier 2013 ,		1

157	Effects of the Mooring Line Configuration on the Dynamics of a Point Absorber 2013 ,		1
156	Comparison of Numerical Results With Experiments on the Ultimate Strength of Long Stiffened Panels 2011 ,		1
155	Assessment of the Uncertainties Introduced by Different Fatigue Damage Models for Ship Structural Details 2010 ,		1
154	On the limitations of two- and three-dimensional linear hydroelasticity analyses applied to a fast patrol boat. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2009 , 223, 457-478	0.4	1
153	Drift Forces on a Floating Body of Simple Geometry Due to Second Order Interactions Between Pairs of Harmonics With Different Frequencies 2009 ,		1
152	Structural Reliability of a Suezmax Oil Tanker Designed According to New Common Structural Rules. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2008 , 130,	1.5	1
151	Reliability of aged ship structures 2008 , 253-286		1
150	Autonomous Underwater Vehicle Control in Presence of Waves 2008 ,		1
149	Nonlinear Peak to Trough Distributions in Sea States With Double-Peaked Spectra 2007 ,		1
148	Modelling Strength Degradation Phenomena and Inspections Used for Reliability Assessment Based on Maintenance Planning 2006 , 69		1
147	Pre-operational system for oil spill simulation. <i>Elsevier Oceanography Series</i> , 2003 , 69, 523-526		1
146			1
145	Assessment of metocean forecasts for Hurricane Lorenzo in the Azores Archipelago. <i>Ocean Engineering</i> , 2022 , 243, 110292	3.9	1
144	Experimental and numerical analysis of the ultimate compressive strength of double-deck structures with a large opening. <i>Ships and Offshore Structures</i> , 1-14	1.4	1
143	Experimental study of wave energy converter arrays adapted to a semi-submersible wind platform. <i>Renewable Energy</i> , 2022 , 188, 145-145	8.1	1
142	Integrating Short Sea Shipping with Trans-European Transport Networks. <i>Journal of Marine Science and Engineering</i> , 2022 , 10, 218	2.4	1
141	Ultimate strength of stiffened plates with local damage on the stiffener 2009 , 145-154		1
140	Digital prototyping of hull structures in basic design 2009 , 457-465		1

139	Sensitivity analysis of the ultimate limit state variables for a tanker and a bulk carrier 2009 , 513-522		1
138	Residual strength assessment of a grounded container ship subjected to asymmetrical bending loads 2018 , 337-344		1
137	Experimental study of the residual strength of damaged hybrid steel-FRP balcony overhangs of ships 2018 , 403-410		1
136	Motions and mooring loads of a tanker moored at open jetty in long crested irregular waves including second order effects 2018 , 557-567		1
135	Analysis of Extreme Storms in the Black Sea 2018 , 699-704		1
134	FE model calibration and validation of a tested plate with an opening under compressive load 2017 , 305-312		1
133	Experimental study of nonlinear behavior of a nylon mooring rope at different scales 2020 , 690-697		1
132	Uncertainty analyses on the CFD/SEA co-simulations of ship wave loads and whipping responses. <i>Marine Structures</i> , 2022 , 82, 103129	3.8	1
131	Selection of countermeasure portfolio for shipping safety with consideration of investment risk aversion. <i>Reliability Engineering and System Safety</i> , 2021 , 108189	6.3	1
130	Implementation of a multi-grid operational wave forecast in the South Atlantic Ocean. <i>Ocean Engineering</i> , 2021 , 110173	3.9	1
129	Hybrid-laser welding-induced distortions and residual stresses analysis of large-scale stiffener panel. <i>Ocean Engineering</i> , 2022 , 245, 110411	3.9	1
128	Effect of initial condition uncertainty on the profile of maximum wave. <i>Marine Structures</i> , 2022 , 82, 103133	3.8	1
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