

Zhiqiang Hu

List of Publications by Year in descending order

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times ranked

543
citing authors

#	ARTICLE	IF	CITATIONS
1	Model test investigation of a spar floating wind turbine. <i>Marine Structures</i> , 2016, 49, 76-96.	3.8	84
2	Prediction of hydrodynamic performance of an FLNG system in side-by-side offloading operation. <i>Journal of Fluids and Structures</i> , 2014, 46, 89-110.	3.4	50
3	An elastic-plastic ice material model for ship-iceberg collision simulations. <i>Ocean Engineering</i> , 2015, 102, 27-39.	4.3	47
4	Coupled analysis of nonlinear sloshing and ship motions. <i>Applied Ocean Research</i> , 2014, 47, 85-97.	4.1	41
5	Biofouling on mooring lines and power cables used in wave energy converter systems—Analysis of fatigue life and energy performance. <i>Applied Ocean Research</i> , 2017, 65, 166-177.	4.1	40
6	Review of Experimental-Numerical Methodologies and Challenges for Floating Offshore Wind Turbines. <i>Journal of Marine Science and Application</i> , 2020, 19, 339-361.	1.7	38
7	Experimental comparisons of dynamic properties of floating wind turbine systems based on two different rotor concepts. <i>Applied Ocean Research</i> , 2016, 58, 266-280.	4.1	31
8	A comparison of coupled and de-coupled simulation procedures for the fatigue analysis of wave energy converter mooring lines. <i>Ocean Engineering</i> , 2016, 117, 332-345.	4.3	31
9	Dynamic response and viscous effect analysis of a TLP-type floating wind turbine using a coupled aero-hydro-mooring dynamic code. <i>Renewable Energy</i> , 2016, 99, 800-812.	8.9	29
10	An analytical method for predicting the ship side structure response in raked bow collisions. <i>Marine Structures</i> , 2015, 41, 288-311.	3.8	27
11	Investigation on structural performance predictions of double-bottom tankers during shoal grounding accidents. <i>Marine Structures</i> , 2013, 33, 188-213.	3.8	25
12	Hydrodynamics of a 2D vessel including internal sloshing flows. <i>Ocean Engineering</i> , 2014, 84, 45-53.	4.3	21
13	Plastic mechanism analysis of structural performances for stiffeners on bottom longitudinal web girders during a shoal grounding accident. <i>Marine Structures</i> , 2015, 40, 134-158.	3.8	21
14	Experimental investigation on dynamic responses of FLNG connection system during side-by-side offloading operation. <i>Ocean Engineering</i> , 2017, 136, 283-293.	4.3	21
15	Hydrodynamics of an FLNG system in tandem offloading operation. <i>Ocean Engineering</i> , 2013, 57, 150-162.	4.3	20
16	A steady-state plate tearing model for ship grounding over a cone-shaped rock. <i>Ships and Offshore Structures</i> , 2016, 11, 245-257.	1.9	18
17	Experimental study on the hydrodynamic behaviour of an FPSO in a deepwater region of the Gulf of Mexico. <i>Ocean Engineering</i> , 2017, 129, 549-566.	4.3	18
18	Full scale measurement for FPSO on motions in six-degrees of freedom and environmental loads and deduction of mooring system loads. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 26-34.	5.1	17

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19	Progressive collapse analysis of ship hull girders subjected to extreme cyclic bending. <i>Marine Structures</i> , 2020, 73, 102803.	3.8	17
20	Structural response of the U-type corrugated core sandwich panel used in ship structures under the lateral quasi-static compression load. <i>Marine Structures</i> , 2022, 84, 103198.	3.8	17
21	Validation of a temperature-gradient-dependent elastic-plastic material model of ice with finite element simulations. <i>Cold Regions Science and Technology</i> , 2017, 133, 15-25.	3.5	16
22	Influence of Vortex-Induced Loads on the Motion of SPAR-Type Wind Turbine: A Coupled Aero-Hydro-Vortex-Mooring Investigation. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2018, 140, .	1.2	16
23	Research on the characteristics and fundamental mechanism of a newly discovered phenomenon of a single moored FPSO in the South China Sea. <i>Ocean Engineering</i> , 2013, 59, 274-284.	4.3	15
24	Bottom structural response prediction for ship-powered grounding over rock-type seabed obstructions. <i>Marine Structures</i> , 2017, 54, 127-143.	3.8	15
25	Experimental and numerical investigation of a taut-moored wave energy converter: a validation of simulated mooring line forces. <i>Ships and Offshore Structures</i> , 2020, 15, S55-S69.	1.9	15
26	An analytical method of predicting the response of FPSO side structures to head-on collision. <i>Ocean Engineering</i> , 2014, 87, 121-135.	4.3	14
27	Frequency/time domain modeling of a direct drive point absorber wave energy converter. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014, 57, 311-320.	5.1	14
28	Effects of sloshing on the global motion responses of FLNG. <i>Ships and Offshore Structures</i> , 2013, 8, 111-122.	1.9	12
29	On resistance of a rectangular thin plate under lateral indentation by a wedge indenter. <i>Ships and Offshore Structures</i> , 2018, 13, 617-629.	1.9	11
30	Comparisons of dynamical characteristics of a 5 MW floating wind turbine supported by a spar-buoy and a semi-submersible using model testing methods. <i>Journal of Renewable and Sustainable Energy</i> , 2018, 10, .	2.0	11
31	Dynamic responses analysis of a 5MW spar-type floating wind turbine under accidental ship-impact scenario. <i>Marine Structures</i> , 2021, 75, 102885.	3.8	11
32	Investigation of the VIMs of a spar-type FOWT using a model test method. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, .	2.0	10
33	Coupling Between Roll Motions of an FLNG Vessel and Internal Sloshing. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2014, 136, .	1.2	9
34	Sensitivity Analysis for Iceberg Geometry Shape in Ship-Iceberg Collision in View of Different Material Models. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-11.	1.1	8
35	Comparison of different dynamic models for floating wind turbines. <i>Journal of Renewable and Sustainable Energy</i> , 2017, 9, .	2.0	8
36	Simulation annealing diagnosis algorithm method for optimized forecast of the dynamic response of floating offshore wind turbines. <i>Journal of Hydrodynamics</i> , 2021, 33, 216-225.	3.2	8

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37	Application of SADA method on full-scale measurement data for dynamic responses prediction of Hywind floating wind turbines. <i>Ocean Engineering</i> , 2021, 239, 109814.	4.3	8
38	An aero-hydro coupled method for investigating ship collision against a floating offshore wind turbine. <i>Marine Structures</i> , 2022, 83, 103177.	3.8	8
39	A novel bidirectional clustering algorithm based on local density. <i>Scientific Reports</i> , 2021, 11, 14214.	3.3	7
40	Experimental and numerical investigation of the roll motion behavior of a floating liquefied natural gas system. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 629-644.	5.1	6
41	The Resistance of Ship Web Girders in Collision and Grounding. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-13.	1.1	6
42	The effect of axial stiffness of mooring lines on the horizontal motion of FDPSO. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 10-15.	5.1	5
43	Experimental study on the hydrodynamic performance of FDPSO and SRV. <i>Ships and Offshore Structures</i> , 2012, 7, 357-369.	1.9	5
44	Broad Side Ship Collision With Jacket Legs: Examination of NORSOK N-004 Analysis Procedure. , 2012, , .		5
45	Investigation of heave response of the deepwater octagonal FDPSO using various heave plate configurations. <i>Journal of Marine Science and Application</i> , 2017, 16, 446-457.	1.7	5
46	Experimental investigation of aerodynamic effectâ€“induced dynamic characteristics of an OC4 semi-submersible floating wind turbine. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2018, 232, 19-36.	0.5	5
47	An ice material model for assessment of strain rate, temperature and confining pressure effects using finite element method. <i>Ships and Offshore Structures</i> , 2019, 14, 34-44.	1.9	5
48	The Research of Moonpool Size Effect on the Hydrodynamic Performance of FDPSO. , 2011, , .		4
49	Dynamic Analysis for a Spar-Type Wind Turbine Under Different Sea States. , 2013, , .		4
50	Advances in Finite Element Method. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-2.	1.1	4
51	Rapid prediction of structural responses of double-bottom structures in shoal grounding scenario. <i>Journal of Marine Science and Application</i> , 2016, 15, 73-85.	1.7	4
52	Experimental investigation of sloshing effect on the hydrodynamic responses of an FLNG system during side-by-side operation. <i>Ships and Offshore Structures</i> , 2017, 12, 804-817.	1.9	4
53	Numerical prediction of scale effect on propeller bearing force of a four-screw ship. <i>Ocean Engineering</i> , 2021, 229, 108974.	4.3	4
54	A nonlinear viscoelastic iceberg material model and its numerical validation. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2017, 231, 675-689.	0.5	3

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55	Time-Domain Analysis of the Relative Motions Between Side-by-Side FLNG and LNGC Under Oblique Waves. <i>Journal of Marine Science and Application</i> , 2018, 17, 519-530.	1.7	3
56	Dynamic Response of Articulated Offshore Wind Turbines under Different Water Depths. <i>Energies</i> , 2020, 13, 2784.	3.1	3
57	Research on Collision Mechanism for a Ship Colliding With a Spar Platform. , 2007, , .		3
58	Dynamic Response of a Conceptual Designed Articulated Offshore Wind Turbine. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2021, 143, .	1.2	3
59	An elastic-plastic iceberg material model considering temperature gradient effects and its application to numerical study. <i>Journal of Marine Science and Application</i> , 2016, 15, 370-375.	1.7	2
60	Critical Void Volume Fraction Identification Based on Mesoscopic Damage Model for NVA Shipbuilding Steel. <i>Journal of Marine Science and Application</i> , 2019, 18, 444-456.	1.7	2
61	Analytical Method for Evaluating the Impact Response of Stiffeners in a Ship Side Shell Subjected to Bulbous Bow Collision. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-11.	1.1	2
62	A CEL study of dynamic slamming response and failure mechanism on corrugated core composite-metal sandwich structures. <i>Ships and Offshore Structures</i> , 2022, 17, 1252-1275.	1.9	2
63	Low Frequency Wave Forces and Wave Induced Motions of a FPSO in Shallow Water. , 2007, , 37.		1
64	Hydrodynamic Verification on the Motion Characteristics of FPSO Based on the Full Scale Measurement Data Features of Current and Wind. , 2010, , .		1
65	Plastic and Elastic Responses of a Jacket Platform Subjected to Ship Impacts. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-15.	1.1	1
66	Model Tests of a Spar-Type Floating Wind Turbine Under Wind/Wave Loads. , 2015, , .		1
67	Numerical Simulation of Dynamics of a Spar Type Floating Wind Turbine and Comparison With Laboratory Measurements. , 2016, , .		1
68	An analytical method to assess the structural responses of ship side structures by raked bow under oblique collision scenarios. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2021, 235, 773-791.	0.5	1
69	Multidisciplinary Design Optimization: A New Way to Bring Softer Bows. , 2008, , .		0
70	Global Strength Assessment for Semi-Submersible Column After Supply Vessel Collision Accident. , 2009, , .		0
71	Numerical and Model Test Investigation on the Motion Characteristic of FDP SO and the Sheltered Riser Vessel. , 2010, , .		0
72	Collision Character Research for Semi-Submersible Through Model Test, Simplified Analytical and Numerical Simulation Method. , 2010, , .		0

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73	A Study on the Effect of Plate Stiffeners of Double Bottom During Ship Grounding With Large Contact Surface. , 2011, , .		0
74	Numerical and Experimental Investigation on Hydrodynamic Characteristics of FLNG With an Account of the Inner-Tank Sloshing. , 2011, , .		0
75	The predictive control for nonlinear systems based on dynamic approximate Hammerstein model. , 2012, , .		0
76	Investigation on Smeared Thickness Method for Plating Stiffeners on Prediction of Grounding Character of Double Bottom Tanker Over Obstacles With Large Contact Surface. , 2012, , .		0
77	Fundamental Analysis for the SWING Motion of Single Moored FPSO in South China Sea. , 2012, , .		0
78	Plastic Mechanism Analysis of Structural Performance of Web Girders During Ship Collision and Grounding. , 2014, , .		0
79	Dynamic Responses of a Semi-Type Offshore Floating Wind Turbine. , 2014, , .		0
80	Preliminary Analysis About Coupled Response of Offshore Floating Wind Turbine System in Time Domain. , 2015, , .		0
81	Advances in Finite Element Method 2014. Mathematical Problems in Engineering, 2015, 2015, 1-2.	1.1	0
82	Advances in Finite Element Method 2016. Mathematical Problems in Engineering, 2016, 2016, 1-2.	1.1	0
83	A Temperature-Gradient-Dependent Elastic-Plastic Material Model of Iceberg and its Application on the Simulation of FPSO-Iceberg Collision. , 2016, , .		0
84	Experimental and Numerical Investigation on the Relative Motions of an FLNG System During Side-by-Side Operation. , 2016, , .		0
85	Experimental Study on Wet Tow and Upending of a Truss Spar. , 2011, , .		0
86	Strength Analysis for a Spar in the Load-Out Operation Process. , 2011, , .		0
87	An Analysis of Structural Performances for Bottom Longitudinal Girder and Attached Stiffeners During Shoal Grounding Accident. , 2013, , .		0
88	A higher-order coupling model of the blades of the floating offshore wind turbine. , 2017, , .		0