

Zhiqiang Hu

List of Publications by Year in descending order

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times ranked

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | Numerical prediction of scale effect on propeller bearing force of a four-screw ship. <i>Ocean Engineering</i> , 2021, 229, 108974. | 4.3 | 4 |
| 7 | A novel bidirectional clustering algorithm based on local density. <i>Scientific Reports</i> , 2021, 11, 14214. | 3.3 | 7 |
| 8 | 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 |
| 9 | 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 |
| 10 | Dynamic Response of a Conceptual Designed Articulated Offshore Wind Turbine. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2021, 143, . | 1.2 | 3 |
| 11 | 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 |
| 12 | 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 |
| 13 | Dynamic Response of Articulated Offshore Wind Turbines under Different Water Depths. <i>Energies</i> , 2020, 13, 2784. | 3.1 | 3 |
| 14 | Progressive collapse analysis of ship hull girders subjected to extreme cyclic bending. <i>Marine Structures</i> , 2020, 73, 102803. | 3.8 | 17 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | Experimental investigation of aerodynamic effectâ€“induced dynamic characteristics of an OC4 semi-submersible floating wind turbine. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2018, 232, 19-36. | 0.5 | 5 |
| 20 | Time-Domain Analysis of the Relative Motions Between Side-by-Side FLNG and LNGC Under Oblique Waves. Journal of Marine Science and Application, 2018, 17, 519-530. | 1.7 | 3 |
| 21 | Comparisons of dynamical characteristics of a 5 MW floating wind turbine supported by a spar-buoy and a semi-submersible using model testing methods. Journal of Renewable and Sustainable Energy, 2018, 10, . | 2.0 | 11 |
| 22 | Influence of Vortex-Induced Loads on the Motion of SPAR-Type Wind Turbine: A Coupled Aero-Hydro-Vortex-Mooring Investigation. Journal of Offshore Mechanics and Arctic Engineering, 2018, 140, . | 1.2 | 16 |
| 23 | Validation of a temperature-gradient-dependent elastic-plastic material model of ice with finite element simulations. Cold Regions Science and Technology, 2017, 133, 15-25. | 3.5 | 16 |
| 24 | Biofouling on mooring lines and power cables used in wave energy converter systemsâ€”Analysis of fatigue life and energy performance. Applied Ocean Research, 2017, 65, 166-177. | 4.1 | 40 |
| 25 | Bottom structural response prediction for ship-powered grounding over rock-type seabed obstructions. Marine Structures, 2017, 54, 127-143. | 3.8 | 15 |
| 26 | Experimental investigation on dynamic responses of FLNG connection system during side-by-side offloading operation. Ocean Engineering, 2017, 136, 283-293. | 4.3 | 21 |
| 27 | Experimental investigation of sloshing effect on the hydrodynamic responses of an FLNG system during side-by-side operation. Ships and Offshore Structures, 2017, 12, 804-817. | 1.9 | 4 |
| 28 | A nonlinear viscoelastic iceberg material model and its numerical validation. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2017, 231, 675-689. | 0.5 | 3 |
| 29 | Experimental study on the hydrodynamic behaviour of an FPSO in a deepwater region of the Gulf of Mexico. Ocean Engineering, 2017, 129, 549-566. | 4.3 | 18 |
| 30 | Comparison of different dynamic models for floating wind turbines. Journal of Renewable and Sustainable Energy, 2017, 9, . | 2.0 | 8 |
| 31 | Investigation of heave response of the deepwater octagonal FDPSO using various heave plate configurations. Journal of Marine Science and Application, 2017, 16, 446-457. | 1.7 | 5 |
| 32 | A higher-order coupling model of the blades of the floating offshore wind turbine. , 2017, , . | | 0 |
| 33 | Advances in Finite Element Method 2016. Mathematical Problems in Engineering, 2016, 2016, 1-2. | 1.1 | 0 |
| 34 | Numerical Simulation of Dynamics of a Spar Type Floating Wind Turbine and Comparison With Laboratory Measurements. , 2016, , . | | 1 |
| 35 | Investigation of the VIMs of a spar-type FOWT using a model test method. Journal of Renewable and Sustainable Energy, 2016, 8, . | 2.0 | 10 |
| 36 | A Temperature-Gradient-Dependent Elastic-Plastic Material Model of Iceberg and its Application on the Simulation of FPSO-Iceberg Collision. , 2016, , . | | 0 |

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|----|--|-----|-----------|
| 37 | Experimental and Numerical Investigation on the Relative Motions of an FLNG System During Side-by-Side Operation. , 2016, , . | | 0 |
| 38 | Dynamic response and viscous effect analysis of a TLP-type floating wind turbine using a coupled aero-hydro-mooring dynamic code. Renewable Energy, 2016, 99, 800-812. | 8.9 | 29 |
| 39 | An elastic-plastic iceberg material model considering temperature gradient effects and its application to numerical study. Journal of Marine Science and Application, 2016, 15, 370-375. | 1.7 | 2 |
| 40 | Model test investigation of a spar floating wind turbine. Marine Structures, 2016, 49, 76-96. | 3.8 | 84 |
| 41 | Experimental comparisons of dynamic properties of floating wind turbine systems based on two different rotor concepts. Applied Ocean Research, 2016, 58, 266-280. | 4.1 | 31 |
| 42 | A comparison of coupled and de-coupled simulation procedures for the fatigue analysis of wave energy converter mooring lines. Ocean Engineering, 2016, 117, 332-345. | 4.3 | 31 |
| 43 | Rapid prediction of structural responses of double-bottom structures in shoal grounding scenario. Journal of Marine Science and Application, 2016, 15, 73-85. | 1.7 | 4 |
| 44 | A steady-state plate tearing model for ship grounding over a cone-shaped rock. Ships and Offshore Structures, 2016, 11, 245-257. | 1.9 | 18 |
| 45 | Model Tests of a Spar-Type Floating Wind Turbine Under Wind/Wave Loads. , 2015, , . | | 1 |
| 46 | Preliminary Analysis About Coupled Response of Offshore Floating Wind Turbine System in Time Domain. , 2015, , . | | 0 |
| 47 | Advances in Finite Element Method 2014. Mathematical Problems in Engineering, 2015, 2015, 1-2. | 1.1 | 0 |
| 48 | An analytical method for predicting the ship side structure response in raked bow collisions. Marine Structures, 2015, 41, 288-311. | 3.8 | 27 |
| 49 | An elastic-plastic ice material model for ship-iceberg collision simulations. Ocean Engineering, 2015, 102, 27-39. | 4.3 | 47 |
| 50 | Plastic mechanism analysis of structural performances for stiffeners on bottom longitudinal web girders during a shoal grounding accident. Marine Structures, 2015, 40, 134-158. | 3.8 | 21 |
| 51 | Plastic Mechanism Analysis of Structural Performance of Web Girders During Ship Collision and Grounding. , 2014, , . | | 0 |
| 52 | The Resistance of Ship Web Girders in Collision and Grounding. Mathematical Problems in Engineering, 2014, 2014, 1-13. | 1.1 | 6 |
| 53 | Coupling Between Roll Motions of an FLNG Vessel and Internal Sloshing. Journal of Offshore Mechanics and Arctic Engineering, 2014, 136, . | 1.2 | 9 |
| 54 | Advances in Finite Element Method. Mathematical Problems in Engineering, 2014, 2014, 1-2. | 1.1 | 4 |

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|----|--|-----|-----------|
| 55 | 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 |
| 56 | Dynamic Responses of a Semi-Type Offshore Floating Wind Turbine. , 2014, , . | | 0 |
| 57 | Hydrodynamics of a 2D vessel including internal sloshing flows. <i>Ocean Engineering</i> , 2014, 84, 45-53. | 4.3 | 21 |
| 58 | 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 |
| 59 | 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 |
| 60 | 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 |
| 61 | Coupled analysis of nonlinear sloshing and ship motions. <i>Applied Ocean Research</i> , 2014, 47, 85-97. | 4.1 | 41 |
| 62 | 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 |
| 63 | Investigation on structural performance predictions of double-bottom tankers during shoal grounding accidents. <i>Marine Structures</i> , 2013, 33, 188-213. | 3.8 | 25 |
| 64 | 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 |
| 65 | Hydrodynamics of an FLNG system in tandem offloading operation. <i>Ocean Engineering</i> , 2013, 57, 150-162. | 4.3 | 20 |
| 66 | 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 |
| 67 | Effects of sloshing on the global motion responses of FLNG. <i>Ships and Offshore Structures</i> , 2013, 8, 111-122. | 1.9 | 12 |
| 68 | Dynamic Analysis for a Spar-Type Wind Turbine Under Different Sea States. , 2013, , . | | 4 |
| 69 | An Analysis of Structural Performances for Bottom Longitudinal Girder and Attached Stiffeners During Shoal Grounding Accident. , 2013, , . | | 0 |
| 70 | The predictive control for nonlinear systems based on dynamic approximate Hammerstein model. , 2012, , . | | 0 |
| 71 | Experimental study on the hydrodynamic performance of FDPSO and SRV. <i>Ships and Offshore Structures</i> , 2012, 7, 357-369. | 1.9 | 5 |
| 72 | Broad Side Ship Collision With Jacket Legs: Examination of NORSOK N-004 Analysis Procedure. , 2012, , . | | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Investigation on Smearred Thickness Method for Plating Stiffeners on Prediction of Grounding Character of Double Bottom Tanker Over Obstacles With Large Contact Surface. , 2012, , . | | 0 |
| 74 | Fundamental Analysis for the SWING Motion of Single Moored FPSO in South China Sea. , 2012, , . | | 0 |
| 75 | Full scale measurement for FPSO on motions in six-degrees of freedom and environmental loads and deduction of mooring system loads. Science China: Physics, Mechanics and Astronomy, 2011, 54, 26-34. | 5.1 | 17 |
| 76 | The effect of axial stiffness of mooring lines on the horizontal motion of FDPSO. Science China: Physics, Mechanics and Astronomy, 2011, 54, 10-15. | 5.1 | 5 |
| 77 | A Study on the Effect of Plate Stiffeners of Double Bottom During Ship Grounding With Large Contact Surface. , 2011, , . | | 0 |
| 78 | Numerical and Experimental Investigation on Hydrodynamic Characteristics of FLNG With an Account of the Inner-Tank Sloshing. , 2011, , . | | 0 |
| 79 | The Research of Moonpool Size Effect on the Hydrodynamic Performance of FDPSO. , 2011, , . | | 4 |
| 80 | Experimental Study on Wet Tow and Upending of a Truss Spar. , 2011, , . | | 0 |
| 81 | Strength Analysis for a Spar in the Load-Out Operation Process. , 2011, , . | | 0 |
| 82 | Numerical and Model Test Investigation on the Motion Characteristic of FDPSO and the Sheltered Riser Vessel. , 2010, , . | | 0 |
| 83 | Hydrodynamic Verification on the Motion Characteristics of FPSO Based on the Full Scale Measurement Data Features of Current and Wind. , 2010, , . | | 1 |
| 84 | Collision Character Research for Semi-Submersible Through Model Test, Simplified Analytical and Numerical Simulation Method. , 2010, , . | | 0 |
| 85 | Global Strength Assessment for Semi-Submersible Column After Supply Vessel Collision Accident. , 2009, , . | | 0 |
| 86 | Multidisciplinary Design Optimization: A New Way to Bring Softer Bows. , 2008, , . | | 0 |
| 87 | Low Frequency Wave Forces and Wave Induced Motions of a FPSO in Shallow Water. , 2007, , 37. | | 1 |
| 88 | Research on Collision Mechanism for a Ship Colliding With a Spar Platform. , 2007, , . | | 3 |