Longfei Xiao

List of Publications by Year
in descending order

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77 papers	1,057 citations	361413 20 h-index	526287 27 g-index
77 all docs	77 docs citations	77 times ranked	616 citing authors

#	Article	IF	Citations
1	Application of an adaptive bistable power capture mechanism to a point absorber wave energy converter. Applied Energy, 2018, 228, 450-467.	10.1	72
2	Comparative study on power capture performance of oscillating-body wave energy converters with three novel power take-off systems. Renewable Energy, 2017, 103, 94-105.	8.9	43
3	Freak wave forces on a vertical cylinder. Coastal Engineering, 2016, 114, 9-18.	4.0	36
4	Large-eddy simulation of the flow past both finite and infinite circular cylinders at Re = 3900. Journal of Hydrodynamics, 2015, 27, 195-203.	3.2	34
5	Second-order responses of a conceptual semi-submersible 10ÂMW wind turbine using full quadratic transfer functions. Renewable Energy, 2020, 153, 653-668.	8.9	34
6	Experimental investigation into the influences of pontoon and column configuration on vortex-induced motions of deep-draft semi-submersibles. Ocean Engineering, 2016, 123, 262-277.	4.3	32
7	Generalized analytical solution to wave interaction with submerged multi-layer horizontal porous plate breakwaters. Journal of Engineering Mathematics, 2017, 105, 117-135.	1.2	32
8	Experimental study of the wave-dissipating performance of a four-layer horizontal porous-plate breakwater. Ocean Engineering, 2018, 151, 222-233.	4.3	31
9	Experimental investigation of flow characteristics around four square-cylinder arrays at subcritical Reynolds numbers. International Journal of Naval Architecture and Ocean Engineering, 2015, 7, 906-919.	2.3	30
10	Operational and extreme responses of a new concept of 10MW semi-submersible wind turbine in intermediate water depth: An experimental study. Ocean Engineering, 2020, 217, 108003.	4.3	30
11	Numerical Simulation of Irregular Wave-Simulating Irregular Wave Train. Journal of Hydrodynamics, 2010, 22, 537-545.	3.2	28
12	An experimental study on deterministic freak waves: Generation, propagation and local energy. Ocean Engineering, 2016, 118, 83-92.	4.3	28
13	Comparative study of hydrodynamic performances of breakwaters with double-layered perforated walls attached to ring-shaped very large floating structures. Ocean Engineering, 2016, 111, 279-291.	4.3	26
14	Effects of wave excitation force prediction deviations on the discrete control performance of an oscillating wave energy converter. Ships and Offshore Structures, 2016, 11, 351-368.	1.9	25
15	Dynamic responses of a 10 MW semi-submersible wind turbine at an intermediate water depth: A comprehensive numerical and experimental comparison. Ocean Engineering, 2021, 232, 109138.	4.3	25
16	An oscillating wave energy converter with nonlinear snap-through Power-Take-Off systems in regular waves. China Ocean Engineering, 2016, 30, 565-580.	1.6	23
17	Four-level screening method for multi-variable truncation design of deepwater mooring system. Marine Structures, 2017, 51, 40-64.	3.8	23
18	Low-frequency drift forces and horizontal motions of a moored FPSO in bi-directional swell and wind-sea offshore West Africa. Ships and Offshore Structures, 2013, 8, 425-440.	1.9	21

#	Article	IF	Citations
19	Hydrodynamics of a 2D vessel including internal sloshing flows. Ocean Engineering, 2014, 84, 45-53.	4.3	21
20	Mechanism and sensitivity for broadband energy harvesting of an adaptive bistable point absorber wave energy converter. Energy, 2019, 188, 115984.	8.8	21
21	Experimental study on mooring, towing and installing of immersed tunnel caissons. Journal of Shanghai Jiaotong University (Science), 2010, 15, 103-107.	0.9	19
22	Flow around an oscillating circular disk at low to moderate Reynolds numbers. Journal of Fluid Mechanics, 2017, 812, 1119-1145.	3.4	19
23	An experimental investigation on wave runup along the broadside of a single point moored FPSO exposed to oblique waves. Ocean Engineering, 2014, 88, 81-90.	4.3	18
24	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
25	Parametric study on the vortex-induced motions of semi-submersibles: Effect of rounded ratios of the column and pontoon. Physics of Fluids, 2017, 29, .	4.0	17
26	Experimental and numerical studies of the pontoon effect on vortex-induced motions of deep-draft semi-submersibles. Journal of Fluids and Structures, 2017, 72, 59-79.	3.4	16
27	Experimental and numerical study on vortex-induced motions of a deep-draft semi-submersible. Applied Ocean Research, 2017, 67, 169-187.	4.1	16
28	Hydrodynamic interactions of three barges in close proximity in a floatover installation. China Ocean Engineering, 2016, 30, 343-358.	1.6	15
29	A free surface interpolation approach for rapid simulation of short waves in meshless numerical wave tank based on the radial basis function. Journal of Computational Physics, 2016, 307, 203-224.	3.8	15
30	Experimental Research on Hydraulic Collecting Spherical Particles in Deep Sea Mining. Energies, 2018, 11, 1938.	3.1	15
31	Performance characteristics of nodule pick-up device based on spiral flow principle for deep-sea hydraulic collection. Ocean Engineering, 2021, 226, 108818.	4.3	15
32	A meshless numerical wave tank for simulation of nonlinear irregular waves in shallow water. International Journal for Numerical Methods in Fluids, 2009, 61, 165-184.	1.6	14
33	Experimental Investigation of Effects of Inner-Tank Sloshing on Hydrodynamics of an FLNG System. Journal of Hydrodynamics, 2012, 24, 107-115.	3.2	14
34	Frequency/time domain modeling of a direct drive point absorber wave energy converter. Science China: Physics, Mechanics and Astronomy, 2014, 57, 311-320.	5.1	14
35	Evaluation of long-term power capture performance of a bistable point absorber wave energy converter in South China Sea. Ocean Engineering, 2021, 237, 109338.	4.3	13
36	Full time-domain nonlinear coupled dynamic analysis of a truss spar and its mooring/riser system in irregular wave. Science China: Physics, Mechanics and Astronomy, 2014, 57, 152-165.	5.1	12

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37	Nonlinear coupling and instability of heave, roll and pitch motions of semi-submersibles with bracings. Journal of Fluids and Structures, 2018, 83, 171-193.	3.4	11
38	Severe wave run-ups on fixed surface-piercing square column under focused waves. Physics of Fluids, 2020, 32, .	4.0	11
39	Data-driven model and key features based on supervised learning for truncation design of mooring and riser system. Ocean Engineering, 2021, 224, 108743.	4.3	11
40	Feasibility studies of a novel spar-type floating wind turbine for moderate water depths: Hydrodynamic perspective with model test. Ocean Engineering, 2021, 233, 109070.	4.3	11
41	Experimental and numerical studies on the excitation loads and vortex structures of four circular section cylinders in a square configuration. Ships and Offshore Structures, 2016, 11, 734-746.	1.9	10
42	Experimental study on vortex-induced motions of a semi-submersible with square columns and pontoons at different draft conditions and current incidences. International Journal of Naval Architecture and Ocean Engineering, 2017, 9, 326-338.	2.3	10
43	Theoretical Research on Hydrodynamics of a Geometric Spar in Frequency-and Time-Domains. Journal of Hydrodynamics, 2008, 20, 30-38.	3.2	9
44	Probability Analysis of Wave Run-Ups and Air Gap Response of a Deepwater Semisubmersible Platform Using LH-Moments Estimation Method. Journal of Waterway, Port, Coastal and Ocean Engineering, 2016, 142, .	1.2	9
45	Experimental study on flow-induced motions of TLP focusing on effects of appendages and mass ratio. Ocean Engineering, 2020, 196, 106749.	4.3	9
46	Damping ratio identification using a continuous wavelet transform to vortex-induced motion ofÂaÃTruss Spar. Ships and Offshore Structures, 2014, 9, 596-604.	1.9	8
47	Performance characteristics of a conceptual ring-shaped spar-type VLFS with double-layered perforated-wall breakwater. Applied Ocean Research, 2019, 86, 28-39.	4.1	8
48	Processing method and governing parameters for horizontal wave impact loads on a semi-submersible. Marine Structures, 2020, 69, 102673.	3.8	7
49	Experimental and numerical investigation of the roll motion behavior of a floating liquefied natural gas system. Science China: Physics, Mechanics and Astronomy, 2013, 56, 629-644.	5.1	6
50	Wave run-up on a fixed surface-piercing square column using multi-layer barrier. Applied Ocean Research, 2018, 71, 105-118.	4.1	6
51	Energy transformation on flow-induced motions of multiple cylindrical structures with various corner shapes. Physics of Fluids, 2020, 32, 027105.	4.0	6
52	Surge motion of a semi-submersible in freak waves. Ships and Offshore Structures, 2017, 12, 443-451.	1.9	5
53	Parametric study on power capture performance of an adaptive bistable point absorber wave energy converter in irregular waves. Journal of Ocean Engineering and Science, 2022, 7, 383-398.	4.3	5
54	Model Test Verification of a Cell Truss Spar Using Hybrid Model Testing Technique. , 2007, , 141.		4

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55	Study on added mass coefficient and oscillation frequency for a Truss Spar subjected to Vortex-Induced Motions. Ships and Offshore Structures, 2014, 9, 54-63.	1.9	4
56	An efficient focusing model of freak wave generation considering wave reflection effects. Ocean Engineering, 2015, 105, 125-135.	4.3	4
57	Shallow water effects on high order statistics and probability distributions of wave run-ups along FPSO broadside. Marine Structures, 2015, 41, 1-19.	3.8	4
58	Study on the effects of mooring system stiffness on air gap response. Ocean Engineering, 2021, 239, 109798.	4.3	4
59	Probability analysis and parameter estimation for nonlinear relative wave motions on a semi-submersible using the method of LH-moments. Ships and Offshore Structures, 2016, 11, 720-733.	1.9	3
60	LH-moment estimation for statistical analysis on the wave crest distributions of a deepwater spar platform model test. Marine Structures, 2017, 52, 15-33.	3.8	3
61	Spatial distribution and interference of wave impact loads among structural components of a semi-submersible. Ocean Engineering, 2020, 212, 107671.	4.3	3
62	Effects of the position of pipe-type appendages on the flow induced motions, energy transformation, and drag force of a TLP. Applied Ocean Research, 2021, 106, 102464.	4.1	3
63	Research on Collision Mechanism for a Ship Colliding With a Spar Platform. , 2007, , .		3
64	Experimental and Numerical Study on Large Truncation of Deepwater Mooring Line. , 2009, , .		2
65	Hybrid model testing using pre-offset and asymmetric truncation design for deepwater semi-submersible with highly compliant mooring system. Journal of Marine Science and Technology, 2018, 23, 536-556.	2.9	2
66	Effects of column shape and configuration on the vortex-induced motions of semi-submersibles. Marine Structures, 2020, 72, 102773.	3.8	2
67	Numerical studies on flow-induced motions of a semi-submersible with three circular columns. International Journal of Naval Architecture and Ocean Engineering, 2021, 13, 599-616.	2.3	2
68	Low Frequency Wave Forces and Wave Induced Motions of a FPSO in Shallow Water. , 2007, , 37.		1
69	Analysis on Low Frequency Heave, Roll and Pitch Motions of a Deepwater Semisubmersible. , 2009, , .		1
70	Numerical Study of Air Gap Response and Wave Impact Load on a Moored Semi-Submersible Platform in Predetermined Irregular Wave Train. , 2010, , .		1
71	Experimental and Numerical Study on Flow Past Four Rectangular Columns in Diamond Configuration. , 2016, , .		1
72	Influence of the Draft Condition on Vortex-Induced Motions of a Semi-Submersible Platform With Four Square Columns. , 2016, , .		1

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73	Influence of Wave Group Characteristics on the Motion of a Semisubmersible in Freak Waves. , 2014, , .		1
74	Parametric study of wave impact pressure impulse and characteristic pressure on a square column with overhanging deck. Ocean Engineering, 2022, 258, 111722.	4.3	1
75	Global Strength Assessment for Semi-Submersible Column After Supply Vessel Collision Accident. , 2009, , .		0
76	Numerical Study on Vortex-Induced Motions of Semi-Submersibles With Various Types of Columns. , 2017, , .		0
77	Experimental Study on Wet Tow and Upending of a Truss Spar. , 2011, , .		0