Xinliang Tian

List of Publications by Year
in descending order

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Version: 2024-02-01

69 papers	1,454 citations	331670 21 h-index	361022 35 g-index
69 all docs	69 docs citations	69 times ranked	929 citing authors

#	Article	IF	Citations
1	A review on fluid dynamics of flapping foils. Ocean Engineering, 2020, 195, 106712.	4.3	148
2	Influences of surge motion on the power and thrust characteristics of an offshore floating wind turbine. Energy, 2017, 141, 2054-2068.	8.8	77
3	A review of the state-of-the-art developments in the field monitoring of offshore structures. Ocean Engineering, 2018, 147, 148-164.	4.3	74
4	Application of an adaptive bistable power capture mechanism to a point absorber wave energy converter. Applied Energy, 2018, 228, 450-467.	10.1	72
5	The power performance of an offshore floating wind turbine in platform pitching motion. Energy, 2018, 154, 508-521.	8.8	71
6	Numerical and experimental study on the maneuverability of an active propeller control based wave glider. Applied Ocean Research, 2020, 104, 102369.	4.1	57
7	Unsteady RANS simulations of flow around rectangular cylinders with different aspect ratios. Ocean Engineering, 2013, 58, 208-216.	4.3	49
8	Dynamic modeling and simulations of the wave glider. Applied Mathematical Modelling, 2019, 66, 77-96.	4.2	48
9	An obstacle avoidance strategy for the wave glider based on the improved artificial potential field and collision prediction model. Ocean Engineering, 2020, 206, 107356.	4.3	40
10	A numerical study on the angle of attack to the blade of a horizontal-axis offshore floating wind turbine under static andÂdynamic yawed conditions. Energy, 2019, 168, 1138-1156.	8.8	36
11	On the power coefficient overshoot of an offshore floating wind turbine in surge oscillations. Wind Energy, 2018, 21, 1076-1091.	4.2	34
12	Predicting heave and surge motions of a semi-submersible with neural networks. Applied Ocean Research, 2021, 112, 102708.	4.1	33
13	Large-eddy simulation of the flow normal to a flat plate including corner effects at a high Reynolds number. Journal of Fluids and Structures, 2014, 49, 149-169.	3.4	32
14	Flow around an inclined circular disk. Journal of Fluid Mechanics, 2018, 851, 687-714.	3.4	29
15	An experimental study on deterministic freak waves: Generation, propagation and local energy. Ocean Engineering, 2016, 118, 83-92.	4.3	28
16	Hydrodynamic coefficients of oscillating flat plates at $$0.15 leqslant KC leqslant 3.15$$ 0.15 â©½ K C â©½ 3.15. Journal of Marine Science and Technology, 2017, 22, 101-113.	2.9	28
17	Design approaches of performance-scaled rotor for wave basin model tests of floating wind turbines. Renewable Energy, 2020, 148, 573-584.	8.9	28
18	Hydrodynamic characteristics of an oscillating circular disk under steady in-plane current conditions. Ocean Engineering, 2014, 75, 53-63.	4.3	27

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19	Monitoring blade loads for a floating wind turbine in wave basin model tests using Fiber Bragg Grating sensors: A feasibility study. Marine Structures, 2020, 71, 102729.	3.8	27
20	Design and application of a monitoring system for the floatover installation. Ocean Engineering, 2018, 150, 194-208.	4.3	25
21	Four-level screening method for multi-variable truncation design of deepwater mooring system. Marine Structures, 2017, 51, 40-64.	3.8	23
22	Numerical investigation of the dynamic response and power capture performance of a VLFS with a wave energy conversion unit. Engineering Structures, 2019, 195, 62-83.	5.3	22
23	Direct numerical simulations on the flow past an inclined circular disk. Journal of Fluids and Structures, 2017, 72, 152-168.	3.4	21
24	Path following control of the wave glider in waves and currents. Ocean Engineering, 2019, 193, 106578.	4.3	21
25	Mechanism and sensitivity for broadband energy harvesting of an adaptive bistable point absorber wave energy converter. Energy, 2019, 188, 115984.	8.8	21
26	Experimental Research for Stabilizing Offshore Floating Wind Turbines. Energies, 2019, 12, 1947.	3.1	20
27	Numerical simulations on the motion of a heavy sphere in upward Poiseuille flow. Ocean Engineering, 2019, 172, 245-256.	4.3	20
28	Flow around an oscillating circular disk at low to moderate Reynolds numbers. Journal of Fluid Mechanics, 2017, 812, 1119-1145.	3.4	19
29	Large-eddy simulations of flow normal to a circular disk at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si28.gif" overflow="scroll"><mml:mrow><mml:mi mathvariant="italic">Re</mml:mi><mml:mo>=</mml:mo><mml:mn>1.5</mml:mn><mml:mo>Ã—</mml:mo><mml:msup><mml:mn>10 Computers and Fluids, 2016, 140, 422-434.	2.5	18
30	On the aerodynamic loading effect of a model Spar-type floating wind turbine: An experimental study. Renewable Energy, 2022, 184, 306-319.	8.9	18
31	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
32	A restricted circle based position keeping strategy for the wave glider. Applied Ocean Research, 2020, 97, 102081.	4.1	17
33	Blade loading performance of a floating wind turbine in wave basin model tests. Ocean Engineering, 2020, 199, 107061.	4.3	16
34	Combined effects of raft length ratio and structural flexibility on power capture performance of an interconnected-two-raft wave energy converter. Ocean Engineering, 2019, 177, 12-28.	4.3	15
35	Wind shear effect induced by the platform pitch motion of a spar-type floating wind turbine. Renewable Energy, 2019, 135, 1186-1199.	8.9	15
36	The hydrodynamic performance of a tension leg platform with one-tendon failure. Ships and Offshore Structures, 2019, 14, 523-533.	1.9	14

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37	Probabilistic prediction of the heave motions of a semi-submersible by a deep learning model. Ocean Engineering, 2022, 247, 110578.	4.3	14
38	Experimental investigation on rogue waves and their impacts on a vertical cylinder using the Peregrine breather model. Ships and Offshore Structures, 2016, 11, 757-765.	1.9	13
39	A numerical study on the nonlinear effects in focused wave modelling and forces on a semi-submerged horizontal cylinder. Ships and Offshore Structures, 2017, 12, 474-485.	1.9	12
40	Experimental study on the wave run-up and air-gap response of a three-column semi-submersible platform. Ocean Engineering, 2020, 203, 107253.	4.3	12
41	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
42	Shape Deformation and Drag Variation of a Coupled Rigid-Flexible System in a Flowing Soap Film. Physical Review Letters, 2020, 125, 034502.	7.8	11
43	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
44	Experimental study on the tower loading characteristics of a floating wind turbine based on wave basin model tests. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 207, 104390.	3.9	10
45	An experimental study on the inline wave force on a truncated vertical cylinder. Ships and Offshore Structures, 2020, 15, 39-52.	1.9	8
46	A gradient-descent-based method for design of performance-scaled rotor for floating wind turbine model testing in wave basins. Renewable Energy, 2022, 187, 144-155.	8.9	8
47	Aspect-Based Sentiment Analysis of User Reviews in 5G Networks. IEEE Network, 2021, 35, 228-233.	6.9	7
48	A numerical framework for hydroelastic analysis of a flexible floating structure under unsteady external excitations: Motion and internal force/moment. Ocean Engineering, 2022, 253, 111288.	4.3	7
49	Development of the control system for a wave driven glider. Ocean Engineering, 2021, 229, 108813.	4.3	6
50	Floating wind turbine power performance incorporating equivalent turbulence intensity induced by floater oscillations. Wind Energy, 2022, 25, 260-280.	4.2	6
51	A study on the heave performance and loads of the critical connections of a novel dry tree semisubmersible concept using numerical and experimental methods. Ocean Engineering, 2016, 124, 42-53.	4.3	5
52	Effects of bracings and motion coupling on resonance features of semi-submersible platform under irregular wave conditions. Journal of Fluids and Structures, 2020, 92, 102783.	3.4	5
53	Bottom step enlarging horizontal momentum flux of dam break flow. Ocean Engineering, 2020, 214, 107729.	4.3	5
54	Performance Analysis of an Adaptive Bistable Point Absorber Wave Energy Converter Under White Noise Wave Excitation. IEEE Transactions on Sustainable Energy, 2021, 12, 1090-1099.	8.8	5

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55	Experimental Investigations on the Hydrodynamic Characteristics of Heave Plate. , 2013, , .		4
56	Experimental investigation on the statistics of rogue waves under a random wave background. Ocean Engineering, 2019, 186, 106075.	4.3	4
57	Study on Nonlinear Characteristics of Freak-Wave Forces with Different Wave Steepness. China Ocean Engineering, 2019, 33, 608-617.	1.6	4
58	Development of an experimental system for the twin-lift decommissioning operation. Ocean Engineering, 2021, 234, 108902.	4.3	4
59	Research on the effects of in-line oscillatory flow on the vortex-induced motions of a deep draft semi-submersible in currents. China Ocean Engineering, 2017, 31, 272-283.	1.6	3
60	Experimental investigation on the hydrodynamic performance of a quay moored jackup. Ships and Offshore Structures, 2017, 12, 679-689.	1.9	3
61	Comparisons Between the Typical Wind Shear and the Wind Shear Induced by Platform Pitch Motion for an Offshore Floating Wind Turbine. , 2018, , .		3
62	Direct numerical simulations on the flow past a thin square plate. Physics of Fluids, 2021, 33, 034128.	4.0	3
63	Multi-objective robust energy management for environment powered unmanned surface vehicles. Ocean Engineering, 2022, 247, 110624.	4.3	3
64	Two-Dimensional Numerical Simulation of Flow Around Rectangular Structures With Different Aspect Ratios. , 2011, , .		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	Three-Dimensional Effects of the Flow Normal to a Flat Plate at a High Reynolds Number. , 2012, , .		1
67	Fourth-order split-step pseudo-spectral method for the modified nonlinear SchrÃ¶dinger equation. Ships and Offshore Structures, 2017, 12, 424-432.	1.9	1
68	Vulnerability criterion of nonlinear coupled resonance for semi-submersible platform using classification algorithm. Marine Structures, 2022, 83, 103183.	3.8	1
69	Influence of a Seabed Trench on a Taut Mooring Line. , 2017, , .		0