

# Xinliang Tian

## List of Publications by Year in descending order

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69  
papers

1,454  
citations

331670

21  
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361022

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all docs

69  
docs citations

69  
times ranked

929  
citing authors

#	ARTICLE	IF	CITATIONS
1	Floating wind turbine power performance incorporating equivalent turbulence intensity induced by floater oscillations. <i>Wind Energy</i> , 2022, 25, 260-280.	4.2	6
2	On the aerodynamic loading effect of a model Spar-type floating wind turbine: An experimental study. <i>Renewable Energy</i> , 2022, 184, 306-319.	8.9	18
3	Multi-objective robust energy management for environment powered unmanned surface vehicles. <i>Ocean Engineering</i> , 2022, 247, 110624.	4.3	3
4	A gradient-descent-based method for design of performance-scaled rotor for floating wind turbine model testing in wave basins. <i>Renewable Energy</i> , 2022, 187, 144-155.	8.9	8
5	Probabilistic prediction of the heave motions of a semi-submersible by a deep learning model. <i>Ocean Engineering</i> , 2022, 247, 110578.	4.3	14
6	Vulnerability criterion of nonlinear coupled resonance for semi-submersible platform using classification algorithm. <i>Marine Structures</i> , 2022, 83, 103183.	3.8	1
7	A numerical framework for hydroelastic analysis of a flexible floating structure under unsteady external excitations: Motion and internal force/moment. <i>Ocean Engineering</i> , 2022, 253, 111288.	4.3	7
8	Direct numerical simulations on the flow past a thin square plate. <i>Physics of Fluids</i> , 2021, 33, 034128.	4.0	3
9	Performance Analysis of an Adaptive Bistable Point Absorber Wave Energy Converter Under White Noise Wave Excitation. <i>IEEE Transactions on Sustainable Energy</i> , 2021, 12, 1090-1099.	8.8	5
10	Development of the control system for a wave driven glider. <i>Ocean Engineering</i> , 2021, 229, 108813.	4.3	6
11	Aspect-Based Sentiment Analysis of User Reviews in 5G Networks. <i>IEEE Network</i> , 2021, 35, 228-233.	6.9	7
12	Predicting heave and surge motions of a semi-submersible with neural networks. <i>Applied Ocean Research</i> , 2021, 112, 102708.	4.1	33
13	Feasibility studies of a novel spar-type floating wind turbine for moderate water depths: Hydrodynamic perspective with model test. <i>Ocean Engineering</i> , 2021, 233, 109070.	4.3	11
14	Development of an experimental system for the twin-lift decommissioning operation. <i>Ocean Engineering</i> , 2021, 234, 108902.	4.3	4
15	An experimental study on the inline wave force on a truncated vertical cylinder. <i>Ships and Offshore Structures</i> , 2020, 15, 39-52.	1.9	8
16	Effects of bracings and motion coupling on resonance features of semi-submersible platform under irregular wave conditions. <i>Journal of Fluids and Structures</i> , 2020, 92, 102783.	3.4	5
17	Design approaches of performance-scaled rotor for wave basin model tests of floating wind turbines. <i>Renewable Energy</i> , 2020, 148, 573-584.	8.9	28
18	A review on fluid dynamics of flapping foils. <i>Ocean Engineering</i> , 2020, 195, 106712.	4.3	148

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19	Numerical and experimental study on the maneuverability of an active propeller control based wave glider. <i>Applied Ocean Research</i> , 2020, 104, 102369.	4.1	57
20	Experimental study on the tower loading characteristics of a floating wind turbine based on wave basin model tests. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 207, 104390.	3.9	10
21	Shape Deformation and Drag Variation of a Coupled Rigid-Flexible System in a Flowing Soap Film. <i>Physical Review Letters</i> , 2020, 125, 034502.	7.8	11
22	Bottom step enlarging horizontal momentum flux of dam break flow. <i>Ocean Engineering</i> , 2020, 214, 107729.	4.3	5
23	Experimental study on the wave run-up and air-gap response of a three-column semi-submersible platform. <i>Ocean Engineering</i> , 2020, 203, 107253.	4.3	12
24	An obstacle avoidance strategy for the wave glider based on the improved artificial potential field and collision prediction model. <i>Ocean Engineering</i> , 2020, 206, 107356.	4.3	40
25	A restricted circle based position keeping strategy for the wave glider. <i>Applied Ocean Research</i> , 2020, 97, 102081.	4.1	17
26	Monitoring blade loads for a floating wind turbine in wave basin model tests using Fiber Bragg Grating sensors: A feasibility study. <i>Marine Structures</i> , 2020, 71, 102729.	3.8	27
27	Blade loading performance of a floating wind turbine in wave basin model tests. <i>Ocean Engineering</i> , 2020, 199, 107061.	4.3	16
28	Experimental investigation on the statistics of rogue waves under a random wave background. <i>Ocean Engineering</i> , 2019, 186, 106075.	4.3	4
29	Study on Nonlinear Characteristics of Freak-Wave Forces with Different Wave Steepness. <i>China Ocean Engineering</i> , 2019, 33, 608-617.	1.6	4
30	Path following control of the wave glider in waves and currents. <i>Ocean Engineering</i> , 2019, 193, 106578.	4.3	21
31	Mechanism and sensitivity for broadband energy harvesting of an adaptive bistable point absorber wave energy converter. <i>Energy</i> , 2019, 188, 115984.	8.8	21
32	Experimental Research for Stabilizing Offshore Floating Wind Turbines. <i>Energies</i> , 2019, 12, 1947.	3.1	20
33	Numerical investigation of the dynamic response and power capture performance of a VLFS with a wave energy conversion unit. <i>Engineering Structures</i> , 2019, 195, 62-83.	5.3	22
34	Combined effects of raft length ratio and structural flexibility on power capture performance of an interconnected-two-raft wave energy converter. <i>Ocean Engineering</i> , 2019, 177, 12-28.	4.3	15
35	The hydrodynamic performance of a tension leg platform with one-tendon failure. <i>Ships and Offshore Structures</i> , 2019, 14, 523-533.	1.9	14
36	Dynamic modeling and simulations of the wave glider. <i>Applied Mathematical Modelling</i> , 2019, 66, 77-96.	4.2	48

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37	Wind shear effect induced by the platform pitch motion of a spar-type floating wind turbine. <i>Renewable Energy</i> , 2019, 135, 1186-1199.	8.9	15
38	A numerical study on the angle of attack to the blade of a horizontal-axis offshore floating wind turbine under static and dynamic yawed conditions. <i>Energy</i> , 2019, 168, 1138-1156.	8.8	36
39	Numerical simulations on the motion of a heavy sphere in upward Poiseuille flow. <i>Ocean Engineering</i> , 2019, 172, 245-256.	4.3	20
40	Hybrid model testing using pre-offset and asymmetric truncation design for deepwater semi-submersible with highly compliant mooring system. <i>Journal of Marine Science and Technology</i> , 2018, 23, 536-556.	2.9	2
41	Design and application of a monitoring system for the floatover installation. <i>Ocean Engineering</i> , 2018, 150, 194-208.	4.3	25
42	The power performance of an offshore floating wind turbine in platform pitching motion. <i>Energy</i> , 2018, 154, 508-521.	8.8	71
43	A review of the state-of-the-art developments in the field monitoring of offshore structures. <i>Ocean Engineering</i> , 2018, 147, 148-164.	4.3	74
44	Comparisons Between the Typical Wind Shear and the Wind Shear Induced by Platform Pitch Motion for an Offshore Floating Wind Turbine. , 2018, , .		3
45	Nonlinear coupling and instability of heave, roll and pitch motions of semi-submersibles with bracings. <i>Journal of Fluids and Structures</i> , 2018, 83, 171-193.	3.4	11
46	Application of an adaptive bistable power capture mechanism to a point absorber wave energy converter. <i>Applied Energy</i> , 2018, 228, 450-467.	10.1	72
47	Flow around an inclined circular disk. <i>Journal of Fluid Mechanics</i> , 2018, 851, 687-714.	3.4	29
48	On the power coefficient overshoot of an offshore floating wind turbine in surge oscillations. <i>Wind Energy</i> , 2018, 21, 1076-1091.	4.2	34
49	Fourth-order split-step pseudo-spectral method for the modified nonlinear Schrödinger equation. <i>Ships and Offshore Structures</i> , 2017, 12, 424-432.	1.9	1
50	A numerical study on the nonlinear effects in focused wave modelling and forces on a semi-submerged horizontal cylinder. <i>Ships and Offshore Structures</i> , 2017, 12, 474-485.	1.9	12
51	Flow around an oscillating circular disk at low to moderate Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2017, 812, 1119-1145.	3.4	19
52	Direct numerical simulations on the flow past an inclined circular disk. <i>Journal of Fluids and Structures</i> , 2017, 72, 152-168.	3.4	21
53	Parametric study on the vortex-induced motions of semi-submersibles: Effect of rounded ratios of the column and pontoon. <i>Physics of Fluids</i> , 2017, 29, .	4.0	17
54	Influence of a Seabed Trench on a Taut Mooring Line. , 2017, , .		0

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55	Influences of surge motion on the power and thrust characteristics of an offshore floating wind turbine. <i>Energy</i> , 2017, 141, 2054-2068.	8.8	77
56	Research on the effects of in-line oscillatory flow on the vortex-induced motions of a deep draft semi-submersible in currents. <i>China Ocean Engineering</i> , 2017, 31, 272-283.	1.6	3
57	Four-level screening method for multi-variable truncation design of deepwater mooring system. <i>Marine Structures</i> , 2017, 51, 40-64.	3.8	23
58	Hydrodynamic coefficients of oscillating flat plates at $0.15 \leq KC \leq 3.15$ and $0.15 \leq KC \leq 3.15$ . <i>Journal of Marine Science and Technology</i> , 2017, 22, 101-113.	2.9	28
59	Experimental investigation on the hydrodynamic performance of a quay moored jackup. <i>Ships and Offshore Structures</i> , 2017, 12, 679-689.	1.9	3
60	An experimental study on deterministic freak waves: Generation, propagation and local energy. <i>Ocean Engineering</i> , 2016, 118, 83-92.	4.3	28
61	A study on the heave performance and loads of the critical connections of a novel dry tree semisubmersible concept using numerical and experimental methods. <i>Ocean Engineering</i> , 2016, 124, 42-53.	4.3	5
62	Large-eddy simulations of flow normal to a circular disk at $Re = 1.5 \times 10^5$ . <i>Computers and Fluids</i> , 2016, 140, 422-434.	2.5	18
63	Experimental investigation on rogue waves and their impacts on a vertical cylinder using the Peregrine breather model. <i>Ships and Offshore Structures</i> , 2016, 11, 757-765.	1.9	13
64	Large-eddy simulation of the flow normal to a flat plate including corner effects at a high Reynolds number. <i>Journal of Fluids and Structures</i> , 2014, 49, 149-169.	3.4	32
65	Hydrodynamic characteristics of an oscillating circular disk under steady in-plane current conditions. <i>Ocean Engineering</i> , 2014, 75, 53-63.	4.3	27
66	Unsteady RANS simulations of flow around rectangular cylinders with different aspect ratios. <i>Ocean Engineering</i> , 2013, 58, 208-216.	4.3	49
67	Experimental Investigations on the Hydrodynamic Characteristics of Heave Plate. , 2013, , .		4
68	Three-Dimensional Effects of the Flow Normal to a Flat Plate at a High Reynolds Number. , 2012, , .		1
69	Two-Dimensional Numerical Simulation of Flow Around Rectangular Structures With Different Aspect Ratios. , 2011, , .		2