

# Xiantao Zhang

## List of Publications by Year in descending order

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21  
papers

462  
citations

759233

12  
h-index

713466

21  
g-index

21  
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21  
docs citations

21  
times ranked

295  
citing authors

#	ARTICLE	IF	CITATIONS
1	Power capture performance of an oscillating-body WEC with nonlinear snap through PTO systems in irregular waves. <i>Applied Ocean Research</i> , 2015, 52, 261-273.	4.1	77
2	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
3	A method to estimate the hydroelastic behaviour of VLFS based on multi-rigid-body dynamics and beam bending. <i>Ships and Offshore Structures</i> , 2019, 14, 354-362.	1.9	39
4	The maximum wave energy conversion by two interconnected floaters: Effects of structural flexibility. <i>Applied Ocean Research</i> , 2018, 71, 34-47.	4.1	33
5	A time domain discrete-module-beam-bending-based hydroelasticity method for the transient response of very large floating structures under unsteady external loads. <i>Ocean Engineering</i> , 2018, 164, 332-349.	4.3	31
6	Effects of wave excitation force prediction deviations on the discrete control performance of an oscillating wave energy converter. <i>Ships and Offshore Structures</i> , 2016, 11, 351-368.	1.9	25
7	Recent advances in wave energy converters based on nonlinear stiffness mechanisms. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2022, 43, 1081-1108.	3.6	24
8	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
9	Eliciting features of 2D greenwater overtopping of a fixed box using modified dam break models. <i>Applied Ocean Research</i> , 2019, 84, 74-91.	4.1	21
10	A study of hydroelastic behavior of hinged VLFS. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2018, 10, 170-179.	2.3	20
11	Performance of a plate-wave energy converter integrated in a floating breakwater. <i>IET Renewable Power Generation</i> , 2021, 15, 3206-3219.	3.1	20
12	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
13	An extension of a discrete-module-beam-bending-based hydroelasticity method for a flexible structure with complex geometric features. <i>Ocean Engineering</i> , 2018, 163, 22-28.	4.3	12
14	Analysis of the Hydroelastic Performance of Very Large Floating Structures Based on Multimodules Beam Theory. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-14.	1.1	10
15	Feasibility of Very Large Floating Structure as Offshore Wind Foundation: Effects of Hinge Numbers on Wave Loads and Induced Responses. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2021, 147, .	1.2	10
16	Efficiency analysis of a 3-DOF wave energy converter (SJTU-WEC) based on modeling, simulation and experiment. <i>Energy</i> , 2021, 220, 119718.	8.8	9
17	Bottom step enlarging horizontal momentum flux of dam break flow. <i>Ocean Engineering</i> , 2020, 214, 107729.	4.3	5
18	Combined Depth Control Strategy for Low-Speed and Long-Range Autonomous Underwater Vehicles. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 181.	2.6	5

#	ARTICLE	IF	CITATIONS
19	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
20	Parametric study on power capture performance of an adaptive bistable point absorber wave energy converter in irregular waves. <i>Journal of Ocean Engineering and Science</i> , 2022, 7, 383-398.	4.3	5
21	Direct numerical simulations on the flow past a thin square plate. <i>Physics of Fluids</i> , 2021, 33, 034128.	4.0	3