

# Zhen Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2414077/publications.pdf>

Version: 2024-02-01

71  
papers

1,468  
citations

361413

20  
h-index

345221

36  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1644  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional dynamic analysis of deep-water steel steep wave riser considering internal solitary wave. <i>Journal of Marine Science and Technology</i> , 2022, 27, 452-466.	2.9	8
2	Numerical Study on the Energy Extraction Performance of Coupled Tandem Flapping Hydrofoils. <i>China Ocean Engineering</i> , 2022, 36, 38-49.	1.6	1
3	A CFD-based wave-to-wire model for the oscillating water column wave energy Converter. <i>Ocean Engineering</i> , 2022, 248, 110842.	4.3	14
4	Effects of Floating Airbag on Cable Hydrodynamic Behaviors: An Experimental Study. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 402.	2.6	0
5	Experimental study on an OWC radial-flow impulse turbine in steady and reciprocating airflows. <i>Ocean Engineering</i> , 2022, 249, 110876.	4.3	3
6	Numerical study on a coupled-pitching flexible hydrofoil under the semi-passive mode. <i>Renewable Energy</i> , 2022, 189, 339-358.	8.9	4
7	Experimental study on the overall performance of a model OWC system under the free-spinning mode in irregular waves. <i>Energy</i> , 2022, 250, 123779.	8.8	8
8	Nonlinear Dynamic Analysis and Fatigue Study of Steep Wave Risers Under Irregular Loads. <i>Journal of Ocean University of China</i> , 2022, 21, 669-680.	1.2	1
9	Dynamic Interactions of a Cable-Laying Vessel with a Submarine Cable during Its Landing Process. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 774.	2.6	2
10	The floaters for submarine-cable landing and its engineering applications. <i>Journal of Physics: Conference Series</i> , 2021, 1865, 032082.	0.4	2
11	Overall performance of a model OWC system under the free-spinning mode: An experimental study. <i>Ocean Engineering</i> , 2021, 227, 108890.	4.3	8
12	An integrated numerical model for the chamber-turbine system of an oscillating water column wave energy converter. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111350.	16.4	12
13	Overall performance evaluation of a model-scale OWC wave energy converter. <i>Renewable Energy</i> , 2020, 149, 1325-1338.	8.9	24
14	Enhanced Optical Absorption and Slowed Light of Reduced-Dimensional CsPbBr <sub>3</sub> Nanowire Crystal by Exciton-Polariton. <i>Nano Letters</i> , 2020, 20, 1023-1032.	9.1	55
15	A Field Study of the Impact of Indoor Lighting on Visual Perception and Cognitive Performance in Classroom. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7436.	2.5	12
16	Experimental Study and Fatigue Analysis of Vortex-Induced Vibration of Umbilical Cable Considering Internal Friction. <i>China Ocean Engineering</i> , 2020, 34, 151-161.	1.6	4
17	Energy-harvesting performance of a coupled-pitching hydrofoil under the semi-passive mode. <i>Applied Energy</i> , 2020, 267, 114889.	10.1	23
18	Wave-flume tests of a model-scaled OWC chamber-turbine system under irregular wave conditions. <i>Applied Ocean Research</i> , 2020, 99, 102141.	4.1	15

#	ARTICLE	IF	CITATIONS
19	Reply to: Discussion on "Review of CFD studies on axial-flow self-rectifying turbines for OWC wave energy conversion" by Cui, Y., Liu, Z., Zhang, X. and Xu, C. Ocean Engineering, 2020, 197, 106872.	4.3	0
20	Experimental and numerical investigations of a coupled-pitching hydrofoil under the fully-activated mode. Renewable Energy, 2020, 155, 432-446.	8.9	9
21	Lasing from Mechanically Exfoliated 2D Homologous Ruddlesden-Popper Perovskite Engineered by Inorganic Layer Thickness. Advanced Materials, 2019, 31, e1903030.	21.0	128
22	Experimental and numerical studies on an OWC axial-flow impulse turbine in reciprocating air flows. Renewable and Sustainable Energy Reviews, 2019, 113, 109272.	16.4	17
23	Hydrodynamic Performance of Rectangular Heaving Buoys for an Integrated Floating Breakwater. Journal of Marine Science and Engineering, 2019, 7, 239.	2.6	8
24	Performance evaluation and enhancement of a semi-activated flapping hydrofoil in shear flows. Energy, 2019, 189, 116255.	8.8	14
25	Semiconductor nanowire plasmonic lasers. Nanophotonics, 2019, 8, 2091-2110.	6.0	40
26	Dynamic Response Study of Steel Catenary Riser Based on Slender Rod Model. China Ocean Engineering, 2019, 33, 57-64.	1.6	8
27	Experimental and numerical investigations on dynamic response performance of a cable laying vessel in complex operating conditions. Advances in Mechanical Engineering, 2019, 11, 168781401984785.	1.6	0
28	Surface Plasmon-Assisted Metal Halide Perovskite Small Lasers. Advanced Optical Materials, 2019, 7, 1900279.	7.3	35
29	Numerical study on hydrodynamic performance of a fully passive flow-driven pitching hydrofoil. Ocean Engineering, 2019, 177, 70-84.	4.3	22
30	Review of CFD studies on axial-flow self-rectifying turbines for OWC wave energy conversion. Ocean Engineering, 2019, 175, 80-102.	4.3	44
31	Self-Starting Analysis of an OWC Axial Impulse Turbine in Constant Flows: Experimental and Numerical Studies. Applied Ocean Research, 2019, 82, 458-469.	4.1	16
32	Numerical study of a guide-vane-augmented vertical darrieus tidal-current-turbine. Journal of Hydrodynamics, 2019, 31, 522-530.	3.2	9
33	Numerical study on overtopping performance of a multi-level breakwater for wave energy conversion. Ocean Engineering, 2018, 150, 94-101.	4.3	20
34	Surface Plasmon Enhanced Strong Exciton-Photon Coupling in Hybrid Inorganic-Organic Perovskite Nanowires. Nano Letters, 2018, 18, 3335-3343.	9.1	133
35	Experimental study on multi-level overtopping wave energy convertor under regular wave conditions. International Journal of Naval Architecture and Ocean Engineering, 2018, 10, 651-659.	2.3	20
36	Transient simulation of OWC impulse turbine based on fully passive flow-driving model. Renewable Energy, 2018, 117, 459-473.	8.9	26

#	ARTICLE	IF	CITATIONS
37	Nonlinear and viscous effects on the hydrodynamic performance of a fixed OWC wave energy converter. Coastal Engineering, 2018, 131, 42-50.	4.0	82
38	Numerical Study of Operating Stability of an Innovative Cable Laying Vessel Under Extreme Conditions. , 2018, , .		0
39	Study on Hydraulic System Efficiency of Heaving-Buoy Wave Energy Converter. Journal of Ocean University of China, 2018, 17, 1044-1052.	1.2	7
40	Low Threshold Fabry-Pérot Mode Lasing from Lead Iodide Trapezoidal Nanoplatelets. Small, 2018, 14, e1801938.	10.0	17
41	High-Temperature Continuous-Wave Pumped Lasing from Large-Area Monolayer Semiconductors Grown by Chemical Vapor Deposition. ACS Nano, 2018, 12, 9390-9396.	14.6	44
42	Ultrathin CsPbX <sub>3</sub> Nanowire Arrays with Strong Emission Anisotropy. Advanced Materials, 2018, 30, e1801805.	21.0	135
43	Experimental study on hydrodynamic performance of a wave energy converter within multi-heaving-buoys. International Journal of Energy Research, 2017, 41, 1351-1366.	4.5	14
44	Neural network approach to a colorimetric value transform based on a large-scale spectral dataset. Coloration Technology, 2017, 133, 73-80.	1.5	3
45	Design of sliding-mode observer for a class of uncertain neutral stochastic systems. International Journal of Systems Science, 2017, 48, 1380-1394.	5.5	11
46	Cover Image, Volume 41, Issue 9. International Journal of Energy Research, 2017, 41, i-i.	4.5	0
47	Experimental study on overtopping performance of a circular ramp wave energy converter. Renewable Energy, 2017, 104, 163-176.	8.9	29
48	Steady state performance of an axial impulse turbine for oscillating water column wave energy converters. Energy, 2017, 141, 1-10.	8.8	34
49	Numerical study to estimate the wave energy under Wave-Current Interaction in the Qingdao coast, China. Renewable Energy, 2017, 101, 845-855.	8.9	16
50	Numerical Study on Self-Starting Performance of Darrieus Vertical Axis Turbine for Tidal Stream Energy Conversion. Energies, 2016, 9, 789.	3.1	11
51	Application of 2D numerical model to unsteady performance evaluation of vertical-axis tidal current turbine. Journal of Ocean University of China, 2016, 15, 977-986.	1.2	3
52	Study on energy conversion and storage system for a prototype buoys-array wave energy converter. Energy for Sustainable Development, 2016, 34, 100-110.	4.5	31
53	Numerical study on a modified impulse turbine for OWC wave energy conversion. Ocean Engineering, 2016, 111, 533-542.	4.3	33
54	OWC air chamber performance prediction under impulse turbine damping effects. Science China Technological Sciences, 2016, 59, 657-666.	4.0	20

#	ARTICLE	IF	CITATIONS
55	Theoretical study on the power take-off estimation of heaving buoy wave energy converter. Renewable Energy, 2016, 86, 441-448.	8.9	53
56	Effects of rotor solidity on the performance of impulse turbine for OWC wave energy converter. China Ocean Engineering, 2015, 29, 663-672.	1.6	8
57	Effects of Damping Plate and Taut Line System on Mooring Stability of Small Wave Energy Converter. Mathematical Problems in Engineering, 2015, 2015, 1-10.	1.1	3
58	Effects of Solidity Ratio on Performance of OWC Impulse Turbine. Advances in Mechanical Engineering, 2015, 7, 121373.	1.6	14
59	Pneumatic performance of staggered impulse turbine for OWC wave energy converter. Journal of Thermal Science, 2015, 24, 403-409.	1.9	13
60	Numerical Analysis of Impulse Turbine for Isolated Pilot OWC System. Advances in Mechanical Engineering, 2013, 5, 416109.	1.6	3
61	Numerical investigation on combined Oscillating Body Wave Energy Converter. , 2012, , .		2
62	3D Numerical Investigation on Reservoir System for an Overtopping Wave Energy Converter. Journal of Navigation and Port Research, 2012, 36, 97-103.	0.1	12
63	Experiment Study on a New Designed OWC Caisson Breakwater. , 2011, , .		6
64	Experimental Study on a New Offshore Wave Energy Converter. , 2011, , .		1
65	Numerical study of air chamber for oscillating water column wave energy converter. China Ocean Engineering, 2011, 25, 169-178.	1.6	42
66	Numerical Analysis on Impulse Turbine for OWC Wave Energy Conversion. , 2011, , .		6
67	Study on the breakwater caisson as oscillating water column facility. Journal of Ocean University of China, 2010, 9, 244-250.	1.2	7
68	Practical Simulation of Oscillating Water Column Chamber for Wave Energy Conversion. International Journal of Green Energy, 2010, 7, 337-346.	3.8	18
69	A wave focusing device for OWC wave energy converter. , 2010, , .		3
70	Experimental and Numerical Study for Hydrodynamic Characteristics of an Oscillating Hydrofoil. Journal of Hydrodynamics, 2008, 20, 280-287.	3.2	29
71	Numerical Prediction for Overtopping Performance of OWEC. , 2008, , .		13