

Zhen Liu

List of Publications by Year in descending order

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papers

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361413

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times ranked

1644
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrathin CsPbX ₃ Nanowire Arrays with Strong Emission Anisotropy. <i>Advanced Materials</i> , 2018, 30, e1801805.	21.0	135
2	Surface Plasmon Enhanced Strong Exciton-Photon Coupling in Hybrid Inorganic-Organic Perovskite Nanowires. <i>Nano Letters</i> , 2018, 18, 3335-3343.	9.1	133
3	Lasing from Mechanically Exfoliated 2D Homologous Ruddlesden-Popper Perovskite Engineered by Inorganic Layer Thickness. <i>Advanced Materials</i> , 2019, 31, e1903030.	21.0	128
4	Nonlinear and viscous effects on the hydrodynamic performance of a fixed OWC wave energy converter. <i>Coastal Engineering</i> , 2018, 131, 42-50.	4.0	82
5	Enhanced Optical Absorption and Slowed Light of Reduced-Dimensional CsPbBr ₃ Nanowire Crystal by Exciton-Polariton. <i>Nano Letters</i> , 2020, 20, 1023-1032.	9.1	55
6	Theoretical study on the power take-off estimation of heaving buoy wave energy converter. <i>Renewable Energy</i> , 2016, 86, 441-448.	8.9	53
7	High-Temperature Continuous-Wave Pumped Lasing from Large-Area Monolayer Semiconductors Grown by Chemical Vapor Deposition. <i>ACS Nano</i> , 2018, 12, 9390-9396.	14.6	44
8	Review of CFD studies on axial-flow self-rectifying turbines for OWC wave energy conversion. <i>Ocean Engineering</i> , 2019, 175, 80-102.	4.3	44
9	Numerical study of air chamber for oscillating water column wave energy converter. <i>China Ocean Engineering</i> , 2011, 25, 169-178.	1.6	42
10	Semiconductor nanowire plasmonic lasers. <i>Nanophotonics</i> , 2019, 8, 2091-2110.	6.0	40
11	Surface-Plasmon-Assisted Metal Halide Perovskite Small Lasers. <i>Advanced Optical Materials</i> , 2019, 7, 1900279.	7.3	35
12	Steady state performance of an axial impulse turbine for oscillating water column wave energy converters. <i>Energy</i> , 2017, 141, 1-10.	8.8	34
13	Numerical study on a modified impulse turbine for OWC wave energy conversion. <i>Ocean Engineering</i> , 2016, 111, 533-542.	4.3	33
14	Study on energy conversion and storage system for a prototype buoys-array wave energy converter. <i>Energy for Sustainable Development</i> , 2016, 34, 100-110.	4.5	31
15	Experimental and Numerical Study for Hydrodynamic Characteristics of an Oscillating Hydrofoil. <i>Journal of Hydrodynamics</i> , 2008, 20, 280-287.	3.2	29
16	Experimental study on overtopping performance of a circular ramp wave energy converter. <i>Renewable Energy</i> , 2017, 104, 163-176.	8.9	29
17	Transient simulation of OWC impulse turbine based on fully passive flow-driving model. <i>Renewable Energy</i> , 2018, 117, 459-473.	8.9	26
18	Overall performance evaluation of a model-scale OWC wave energy converter. <i>Renewable Energy</i> , 2020, 149, 1325-1338.	8.9	24

#	ARTICLE	IF	CITATIONS
19	Energy-harvesting performance of a coupled-pitching hydrofoil under the semi-passive mode. Applied Energy, 2020, 267, 114889.	10.1	23
20	Numerical study on hydrodynamic performance of a fully passive flow-driven pitching hydrofoil. Ocean Engineering, 2019, 177, 70-84.	4.3	22
21	OWC air chamber performance prediction under impulse turbine damping effects. Science China Technological Sciences, 2016, 59, 657-666.	4.0	20
22	Numerical study on overtopping performance of a multi-level breakwater for wave energy conversion. Ocean Engineering, 2018, 150, 94-101.	4.3	20
23	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
24	Practical Simulation of Oscillating Water Column Chamber for Wave Energy Conversion. International Journal of Green Energy, 2010, 7, 337-346.	3.8	18
25	Low Threshold Fabry-Pérot Mode Lasing from Lead Iodide Trapezoidal Nanoplatelets. Small, 2018, 14, e1801938.	10.0	17
26	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
27	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
28	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
29	Wave-flume tests of a model-scaled OWC chamber-turbine system under irregular wave conditions. Applied Ocean Research, 2020, 99, 102141.	4.1	15
30	Effects of Solidity Ratio on Performance of OWC Impulse Turbine. Advances in Mechanical Engineering, 2015, 7, 121373.	1.6	14
31	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
32	Performance evaluation and enhancement of a semi-activated flapping hydrofoil in shear flows. Energy, 2019, 189, 116255.	8.8	14
33	A CFD-based wave-to-wire model for the oscillating water column wave energy Converter. Ocean Engineering, 2022, 248, 110842.	4.3	14
34	Numerical Prediction for Overtopping Performance of OWEC. , 2008, , .		13
35	Pneumatic performance of staggered impulse turbine for OWC wave energy convertor. Journal of Thermal Science, 2015, 24, 403-409.	1.9	13
36	A Field Study of the Impact of Indoor Lighting on Visual Perception and Cognitive Performance in Classroom. Applied Sciences (Switzerland), 2020, 10, 7436.	2.5	12

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37	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
38	3D Numerical Investigation on Reservoir System for an Overtopping Wave Energy Converter. <i>Journal of Navigation and Port Research</i> , 2012, 36, 97-103.	0.1	12
39	Numerical Study on Self-Starting Performance of Darrieus Vertical Axis Turbine for Tidal Stream Energy Conversion. <i>Energies</i> , 2016, 9, 789.	3.1	11
40	Design of sliding-mode observer for a class of uncertain neutral stochastic systems. <i>International Journal of Systems Science</i> , 2017, 48, 1380-1394.	5.5	11
41	Numerical study of a guide-vane-augmented vertical darrieus tidal-current-turbine. <i>Journal of Hydrodynamics</i> , 2019, 31, 522-530.	3.2	9
42	Experimental and numerical investigations of a coupled-pitching hydrofoil under the fully-activated mode. <i>Renewable Energy</i> , 2020, 155, 432-446.	8.9	9
43	Effects of rotor solidity on the performance of impulse turbine for OWC wave energy converter. <i>China Ocean Engineering</i> , 2015, 29, 663-672.	1.6	8
44	Hydrodynamic Performance of Rectangular Heaving Buoys for an Integrated Floating Breakwater. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 239.	2.6	8
45	Dynamic Response Study of Steel Catenary Riser Based on Slender Rod Model. <i>China Ocean Engineering</i> , 2019, 33, 57-64.	1.6	8
46	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
47	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
48	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
49	Study on the breakwater caisson as oscillating water column facility. <i>Journal of Ocean University of China</i> , 2010, 9, 244-250.	1.2	7
50	Study on Hydraulic System Efficiency of Heaving-Buoy Wave Energy Converter. <i>Journal of Ocean University of China</i> , 2018, 17, 1044-1052.	1.2	7
51	Experiment Study on a New Designed OWC Caisson Breakwater. , 2011, , .		6
52	Numerical Analysis on Impulse Turbine for OWC Wave Energy Conversion. , 2011, , .		6
53	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
54	Numerical study on a coupled-pitching flexible hydrofoil under the semi-passive mode. <i>Renewable Energy</i> , 2022, 189, 339-358.	8.9	4

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55	A wave focusing device for OWC wave energy convertor. , 2010, , .		3
56	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
57	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
58	Neural network approach to a colorimetric value transform based on a large-scale spectral dataset. Coloration Technology, 2017, 133, 73-80.	1.5	3
59	Numerical Analysis of Impulse Turbine for Isolated Pilot OWC System. Advances in Mechanical Engineering, 2013, 5, 416109.	1.6	3
60	Experimental study on an OWC radial-flow impulse turbine in steady and reciprocating airflows. Ocean Engineering, 2022, 249, 110876.	4.3	3
61	Numerical investigation on combined Oscillating Body Wave Energy Convertor. , 2012, , .		2
62	The floaters for submarine-cable landing and its engineering applications. Journal of Physics: Conference Series, 2021, 1865, 032082.	0.4	2
63	Dynamic Interactions of a Cable-Laying Vessel with a Submarine Cable during Its Landing Process. Journal of Marine Science and Engineering, 2022, 10, 774.	2.6	2
64	Experimental Study on a New Offshore Wave Energy Convertor. , 2011, , .		1
65	Numerical Study on the Energy Extraction Performance of Coupled Tandem Flapping Hydrofoils. China Ocean Engineering, 2022, 36, 38-49.	1.6	1
66	Nonlinear Dynamic Analysis and Fatigue Study of Steep Wave Risers Under Irregular Loads. Journal of Ocean University of China, 2022, 21, 669-680.	1.2	1
67	Cover Image, Volume 41, Issue 9. International Journal of Energy Research, 2017, 41, i-i.	4.5	0
68	Numerical Study of Operating Stability of an Innovative Cable Laying Vessel Under Extreme Conditions. , 2018, , .		0
69	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
70	Reply to: Discussion on "œreview 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
71	Effects of Floating Airbag on Cable Hydrodynamic Behaviors: An Experimental Study. Journal of Marine Science and Engineering, 2022, 10, 402.	2.6	0