YI-Hsiang Yu

List of Publications by Year in descending order

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39 papers	414 citations	840776 11 h-index	940533 16 g-index
42 all docs	42 docs citations	42 times ranked	313 citing authors

#	Article	IF	Citations
1	A Survey of WEC Reliability, Survival and Design Practices. Energies, 2018, 11, 4.	3.1	39
2	Preliminary Verification and Validation of WEC-Sim, an Open-Source Wave Energy Converter Design Tool. , 2014, , .		34
3	Ocean Energy Systems Wave Energy Modelling Task: Modelling, Verification and Validation of Wave Energy Converters. Journal of Marine Science and Engineering, 2019, 7, 379.	2.6	30
4	Design and Analysis for a Floating Oscillating Surge Wave Energy Converter. , 2014, , .		24
5	OC6 phase I: Improvements to the OpenFAST predictions of nonlinear, low-frequency responses of a floating offshore wind turbine platform. Renewable Energy, 2022, 187, 282-301.	8.9	21
6	Implementing Nonlinear Buoyancy and Excitation Forces in the WEC-Sim Wave Energy Converter Modeling Tool. , 2014, , .		20
7	OC6 Phase Ib: Validation of the CFD predictions of difference-frequency wave excitation on a FOWT semisubmersible. Ocean Engineering, 2021, 241, 110026.	4.3	20
8	Review of Marine Hydrokinetic Power Generation and Power Plant. Electric Power Components and Systems, 2015, 43, 1422-1433.	1.8	18
9	Ocean power technology design optimization. International Journal of Marine Energy, 2017, 20, 97-108.	1.8	17
10	CFD design-load analysis of a two-body wave energy converter. Journal of Ocean Engineering and Marine Energy, 2019, 5, 99-117.	1.7	17
11	Focused wave interactions with floating structures: a blind comparative study. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2021, 174, 46-61.	0.4	16
12	Numerical Modeling and Dynamic Analysis of a Wave-Powered Reverse-Osmosis System. Journal of Marine Science and Engineering, 2018, 6, 132.	2.6	15
13	Uncertainty Assessment of CFD Investigation of the Nonlinear Difference-Frequency Wave Loads on a Semisubmersible FOWT Platform. Sustainability, 2021, 13, 64.	3.2	15
14	Numerical Analysis on Hydraulic Power Take-Off for Wave Energy Converter and Power Smoothing Methods. , 2018, , .		14
15	Ocean Energy Systems Wave Energy Modeling Task 10.4: Numerical Modeling of a Fixed Oscillating Water Column. Energies, 2021, 14, 1718.	3.1	11
16	Highly Accurate Experimental Heave Decay Tests with a Floating Sphere: A Public Benchmark Dataset for Model Validation of Fluidâ€“Structure Interaction. Energies, 2021, 14, 269.	3.1	9
17	Investigations into Balancing Peak-to-Average Power Ratio and Mean Power Extraction for a Two-Body Point-Absorber Wave Energy Converter. Energies, 2021, 14, 3489.	3.1	8
18	A rule-based phase control methodology for a slider-crank wave energy converter power take-off system. International Journal of Marine Energy, 2017, 19, 124-144.	1.8	8

#	Article	IF	Citations
19	Performance of reverse osmosis membrane with large feed pressure fluctuations from a wave-driven desalination system. Desalination, 2022, 527, 115546.	8.2	7
20	Application of the Most Likely Extreme Response Method for Wave Energy Converters. , 2016, , .		6
21	The Wave Energy Converter Control Competition: Overview. , 2019, , .		6
22	COER Hydrodynamic Modeling Competition: Modeling the Dynamic Response of a Floating Body Using the WEC-Sim and FAST Simulation Tools. , 2015, , .		5
23	Analysis of a Wave-Powered, Reverse-Osmosis System and its Economic Availability in the United States. , 2017, , .		5
24	Economic Comparison between Battery and Supercapacitor for Hourly Dispatching Wave Energy Converter Power. , 2021, , .		5
25	Annual performance of the second-generation variable-geometry oscillating surge wave energy converter. Renewable Energy, 2021, 177, 242-258.	8.9	5
26	WEC-Sim Phase 1 Validation Testing: Numerical Modeling of Experiments. , 2016, , .		4
27	Design Load Analysis for Wave Energy Converters. , 2018, , .		4
28	Analysis on the Influence of an Energy Storage System and its Impact to the Grid for a Wave Energy Converter. , 2019, , .		4
29	Balancing Power Absorption and Fatigue Loads in Irregular Waves for an Oscillating Surge Wave Energy Converter. , 2016, , .		3
30	Structural Loads Analysis for Wave Energy Converters. , 2017, , .		3
31	Influence of Time and Frequency Domain Wave Forcing on the Power Estimation of a Wave Energy Converter Array. Journal of Marine Science and Engineering, 2020, 8, 171.	2.6	3
32	Coupled Mooring Analyses for the WEC-Sim Wave Energy Converter Design Tool. , 2016, , .		3
33	Extreme Load Computational Fluid Dynamics Analysis and Verification for a Multibody Wave Energy Converter. , 2019, , .		3
34	Wave Excitation Force Prediction Methodology Based on Autoregressive Filters for Real Time Control. , 2019, , .		2
35	Validation of simulated wave energy converter responses to focused waves. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2021, 174, 32-45.	0.4	2
36	Implementation and Verification of Cable Bending Stiffness in MoorDyn. , 2021, , .		1

#	Article	IF	Citations
37	Investigating the Impact of Power-Take-Off System Parameters and Control Law on a Rotational Wave Energy Converterâ€™s Peak-to-Average Power Ratio Reduction. , 2020, , .		1
38	Development and Validation of Passive Yaw in the Open-Source WEC-Sim Code. , 2020, , .		1
39	Hardware-in-the-Loop Simulation for the Proposed Slider-Crank Wave Energy Conversion Device. , 2018, , .		0