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	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
2	Performance of reverse osmosis membrane with large feed pressure fluctuations from a wave-driven desalination system. Desalination, 2022, 527, 115546.	8.2	7
3	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
4	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
5	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
6	Implementation and Verification of Cable Bending Stiffness in MoorDyn. , 2021, , .		1
7	Ocean Energy Systems Wave Energy Modeling Task 10.4: Numerical Modeling of a Fixed Oscillating Water Column. Energies, 2021, 14, 1718.	3.1	11
8	Economic Comparison between Battery and Supercapacitor for Hourly Dispatching Wave Energy Converter Power. , 2021, , .		5
9	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
10	Annual performance of the second-generation variable-geometry oscillating surge wave energy converter. Renewable Energy, 2021, 177, 242-258.	8.9	5
11	Uncertainty Assessment of CFD Investigation of the Nonlinear Difference-Frequency Wave Loads on a Semisubmersible FOWT Platform. Sustainability, 2021, 13, 64.	3.2	15
12	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
13	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
14	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
15	Development and Validation of Passive Yaw in the Open-Source WEC-Sim Code. , 2020, , .		1
16	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
17	Wave Excitation Force Prediction Methodology Based on Autoregressive Filters for Real Time Control. , 2019, , .		2
18	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

#	Article	IF	Citations
19	Extreme Load Computational Fluid Dynamics Analysis and Verification for a Multibody Wave Energy Converter. , 2019, , .		3
20	The Wave Energy Converter Control Competition: Overview. , 2019, , .		6
21	Analysis on the Influence of an Energy Storage System and its Impact to the Grid for a Wave Energy Converter. , 2019, , .		4
22	Design Load Analysis for Wave Energy Converters. , 2018, , .		4
23	Hardware-in-the-Loop Simulation for the Proposed Slider-Crank Wave Energy Conversion Device. , 2018, , .		0
24	Numerical Modeling and Dynamic Analysis of a Wave-Powered Reverse-Osmosis System. Journal of Marine Science and Engineering, 2018, 6, 132.	2.6	15
25	Numerical Analysis on Hydraulic Power Take-Off for Wave Energy Converter and Power Smoothing Methods. , 2018, , .		14
26	A Survey of WEC Reliability, Survival and Design Practices. Energies, 2018, 11, 4.	3.1	39
27	Structural Loads Analysis for Wave Energy Converters. , 2017, , .		3
28	Ocean power technology design optimization. International Journal of Marine Energy, 2017, 20, 97-108.	1.8	17
29	Analysis of a Wave-Powered, Reverse-Osmosis System and its Economic Availability in the United States. , 2017, , .		5
30	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
31	WEC-Sim Phase 1 Validation Testing: Numerical Modeling of Experiments. , 2016, , .		4
32	Balancing Power Absorption and Fatigue Loads in Irregular Waves for an Oscillating Surge Wave Energy Converter. , 2016, , .		3
33	Application of the Most Likely Extreme Response Method for Wave Energy Converters. , 2016, , .		6
34	Coupled Mooring Analyses for the WEC-Sim Wave Energy Converter Design Tool. , 2016, , .		3
35	COER Hydrodynamic Modeling Competition: Modeling the Dynamic Response of a Floating Body Using the WEC-Sim and FAST Simulation Tools. , 2015, , .		5
36	Review of Marine Hydrokinetic Power Generation and Power Plant. Electric Power Components and Systems, 2015, 43, 1422-1433.	1.8	18

#	Article	IF	Citations
37	Implementing Nonlinear Buoyancy and Excitation Forces in the WEC-Sim Wave Energy Converter Modeling Tool. , 2014, , .		20
38	Design and Analysis for a Floating Oscillating Surge Wave Energy Converter. , 2014, , .		24
39	Preliminary Verification and Validation of WEC-Sim, an Open-Source Wave Energy Converter Design Tool. , 2014, , .		34