

# Ryan G Coe

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

660  
citations

516710  
16  
h-index

677142  
22  
g-index

64  
all docs

64  
docs citations

64  
times ranked

371  
citing authors

#	ARTICLE	IF	CITATIONS
1	Alternative approaches to develop environmental contours from metocean data. <i>Journal of Ocean Engineering and Marine Energy</i> , 2018, 4, 293-310.	1.7	50
2	A comparison of control strategies for wave energy converters. <i>International Journal of Marine Energy</i> , 2017, 20, 45-63.	1.8	47
3	System Identification of a Heaving Point Absorber: Design of Experiment and Device Modeling. <i>Energies</i> , 2017, 10, 472.	3.1	44
4	A Survey of WEC Reliability, Survival and Design Practices. <i>Energies</i> , 2018, 11, 4.	3.1	39
5	Multiresonant Feedback Control of a Three-Degree-of-Freedom Wave Energy Converter. <i>IEEE Transactions on Sustainable Energy</i> , 2017, 8, 1518-1527.	8.8	29
6	Model Predictive Control of parametric excited pitch-surge modes in wave energy converters. <i>International Journal of Marine Energy</i> , 2017, 19, 32-46.	1.8	27
7	A benchmarking exercise for environmental contours. <i>Ocean Engineering</i> , 2021, 236, 109504.	4.3	26
8	A practical approach to wave energy modeling and control. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 142, 110791.	16.4	25
9	Full long-term design response analysis of a wave energy converter. <i>Renewable Energy</i> , 2018, 116, 356-366.	8.9	22
10	Comments on Control of Wave Energy Converters. <i>IEEE Transactions on Control Systems Technology</i> , 2021, 29, 478-481.	5.2	22
11	On the control design of wave energy converters with wave prediction. <i>Journal of Ocean Engineering and Marine Energy</i> , 2016, 2, 473-483.	1.7	18
12	Modelling a Heaving Point-Absorber with a Closed-Loop Control System Using the DualSPHysics Code. <i>Energies</i> , 2021, 14, 760.	3.1	18
13	Maybe less is more: Considering capacity factor, saturation, variability, and filtering effects of wave energy devices. <i>Applied Energy</i> , 2021, 291, 116763.	10.1	18
14	The Effect of Environmental Contour Selection on Expected Wave Energy Converter Response. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2019, 141, .	1.2	17
15	A Wave Energy Converter Design Load Case Study. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 250.	2.6	17
16	CFD design-load analysis of a two-body wave energy converter. <i>Journal of Ocean Engineering and Marine Energy</i> , 2019, 5, 99-117.	1.7	17
17	Feedback Resonating Control for a Wave Energy Converter. <i>IEEE Transactions on Industry Applications</i> , 2020, 56, 1862-1868.	4.9	16
18	Wave tank and bench-top control testing of a wave energy converter. <i>Applied Ocean Research</i> , 2019, 86, 351-366.	4.1	12

#	ARTICLE	IF	CITATIONS
19	Model Predictive Control Tuning by Inverse Matching for a Wave Energy Converter. <i>Energies</i> , 2019, 12, 4158.	3.1	11
20	Extending Complex Conjugate Control to Nonlinear Wave Energy Converters. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 84.	2.6	11
21	Super Capacitor Energy Storage System Design for Wave Energy Converter Demonstration. , 2020, , .		10
22	A Scoping Study to Determine the Location-Specific WEC Threshold Size for Wave-Powered AUV Recharging. <i>IEEE Journal of Oceanic Engineering</i> , 2021, 46, 1-10.	3.8	10
23	A Benchmarking Exercise on Estimating Extreme Environmental Conditions: Methodology and Baseline Results. , 2019, , .		10
24	On the Development of an Efficient Surrogate Model for Predicting Long-Term Extreme Loads on a Wave Energy Converter. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2019, 141, .	1.2	9
25	Initial conceptual demonstration of control co-design for WEC optimization. <i>Journal of Ocean Engineering and Marine Energy</i> , 2020, 6, 441-449.	1.7	8
26	Preliminary Wave Energy Converters Extreme Load Analysis. , 2015, , .		7
27	Estimation of excitation force on wave energy converters using pressure measurements for feedback control. , 2016, , .		7
28	Control of Three Degrees-of-Freedom Wave Energy Converters Using Pseudo-Spectral Methods. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018, 140, .	1.6	7
29	Development of a Comparison Framework for Evaluating Environmental Contours of Extreme Sea States. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 16.	2.6	6
30	The Wave Energy Converter Control Competition: Overview. , 2019, , .		6
31	Nonlinear WEC Optimized Geometric Buoy Design for Efficient Reactive Power Requirements. , 2019, , .		5
32	The MBARI-WEC: a power source for ocean sensing. <i>Journal of Ocean Engineering and Marine Energy</i> , 2021, 7, 189-200.	1.7	5
33	A comparison of efficiency-aware model-predictive control approaches for wave energy devices. <i>Journal of Ocean Engineering and Marine Energy</i> , 2022, 8, 17-29.	1.7	5
34	On Real-Time Hybrid Testing of Ocean Wave Energy Conversion Systems: An Experimental Study. <i>IEEE Open Journal of Industry Applications</i> , 2022, 3, 30-40.	6.5	5
35	Amplitude effects on virtual PMM tests. , 2012, , .		4
36	Nonlinear time-domain performance model for a wave energy converter in three dimensions. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
37	WEC Geometry Optimization With Advanced Control. , 2017, , .		4
38	Design Load Analysis for Wave Energy Converters. , 2018, , .		4
39	Sensitivity of a Wave Energy Converter Dynamics Model to Nonlinear Hydrostatic Models. , 2015, , .		3
40	Comparison of methods for estimating short-term extreme response of wave energy converters. , 2015, , .		3
41	Feedback Resonating Control for a Wave Energy Converter. , 2018, , .		3
42	WEC Array Networked Microgrid Control Design and Energy Storage System Requirements. , 2019, , .		3
43	A Self-Tuning WEC Controller For Changing Sea States. IFAC-PapersOnLine, 2020, 53, 12307-12312.	0.9	3
44	Extreme Load Computational Fluid Dynamics Analysis and Verification for a Multibody Wave Energy Converter. , 2019, , .		3
45	Asymmetrical wake and propulsor effects on control surface effectiveness on AUVs. , 2012, , .		2
46	Wave-Powered AUV Recharging: A Feasibility Study. , 2019, , .		2
47	Design and testing of a Self-Mooring AUV. , 2012, , .		1
48	On the Long-Term Reliability Analysis of a Point Absorber Wave Energy Converter. , 2017, , .		1
49	Design and testing of a free floating dual flap wave energy converter. Energy, 2022, 240, 122485.	8.8	1
50	Use of Overset Mesh to Allow Dynamic Deflection of Tight-Fitting Control Surfaces in CFD Simulations. , 2013, , .		0
51	An Assessment of WEC Control Performance Uncertainty. , 2017, , .		0
52	On the Development of an Efficient Surrogate Model for Predicting Long-Term Extreme Loads on a Wave Energy Converter. , 2018, , .		0
53	Development and characterization of a coupled structural dynamics model for the Sandia wave energy converter testbed. Journal of Ocean Engineering and Marine Energy, 0, , 1.	1.7	0
54	Modeling and predicting power from a WEC array. , 2021, , .		0