

# Ryan G Coe

## List of Publications by Year in descending order

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54  
papers

660  
citations

516710

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677142

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g-index

64  
all docs

64  
docs citations

64  
times ranked

371  
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison of efficiency-aware model-predictive control approaches for wave energy devices. Journal of Ocean Engineering and Marine Energy, 2022, 8, 17-29.	1.7	5
2	Design and testing of a free floating dual flap wave energy converter. Energy, 2022, 240, 122485.	8.8	1
3	On Real-Time Hybrid Testing of Ocean Wave Energy Conversion Systems: An Experimental Study. IEEE Open Journal of Industry Applications, 2022, 3, 30-40.	6.5	5
4	A Scoping Study to Determine the Location-Specific WEC Threshold Size for Wave-Powered AUV Recharging. IEEE Journal of Oceanic Engineering, 2021, 46, 1-10.	3.8	10
5	Comments on Control of Wave Energy Converters. IEEE Transactions on Control Systems Technology, 2021, 29, 478-481.	5.2	22
6	Modelling a Heaving Point-Absorber with a Closed-Loop Control System Using the DualSPHysics Code. Energies, 2021, 14, 760.	3.1	18
7	The MBARI-WEC: a power source for ocean sensing. Journal of Ocean Engineering and Marine Energy, 2021, 7, 189-200.	1.7	5
8	A practical approach to wave energy modeling and control. Renewable and Sustainable Energy Reviews, 2021, 142, 110791.	16.4	25
9	Maybe less is more: Considering capacity factor, saturation, variability, and filtering effects of wave energy devices. Applied Energy, 2021, 291, 116763.	10.1	18
10	A benchmarking exercise for environmental contours. Ocean Engineering, 2021, 236, 109504.	4.3	26
11	Development of a Comparison Framework for Evaluating Environmental Contours of Extreme Sea States. Journal of Marine Science and Engineering, 2021, 9, 16.	2.6	6
12	Modeling and predicting power from a WEC array. , 2021, , .		0
13	Feedback Resonating Control for a Wave Energy Converter. IEEE Transactions on Industry Applications, 2020, 56, 1862-1868.	4.9	16
14	Initial conceptual demonstration of control co-design for WEC optimization. Journal of Ocean Engineering and Marine Energy, 2020, 6, 441-449.	1.7	8
15	Super Capacitor Energy Storage System Design for Wave Energy Converter Demonstration. , 2020, , .		10
16	Extending Complex Conjugate Control to Nonlinear Wave Energy Converters. Journal of Marine Science and Engineering, 2020, 8, 84.	2.6	11
17	A Self-Tuning WEC Controller For Changing Sea States. IFAC-PapersOnLine, 2020, 53, 12307-12312.	0.9	3
18	The Effect of Environmental Contour Selection on Expected Wave Energy Converter Response. Journal of Offshore Mechanics and Arctic Engineering, 2019, 141, .	1.2	17

#	ARTICLE	IF	CITATIONS
19	A Wave Energy Converter Design Load Case Study. Journal of Marine Science and Engineering, 2019, 7, 250.	2.6	17
20	On the Development of an Efficient Surrogate Model for Predicting Long-Term Extreme Loads on a Wave Energy Converter. Journal of Offshore Mechanics and Arctic Engineering, 2019, 141, .	1.2	9
21	Wave tank and bench-top control testing of a wave energy converter. Applied Ocean Research, 2019, 86, 351-366.	4.1	12
22	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
23	WEC Array Networked Microgrid Control Design and Energy Storage System Requirements. , 2019, , .		3
24	Model Predictive Control Tuning by Inverse Matching for a Wave Energy Converter. Energies, 2019, 12, 4158.	3.1	11
25	Nonlinear WEC Optimized Geometric Buoy Design for Efficient Reactive Power Requirements. , 2019, , .		5
26	A Benchmarking Exercise on Estimating Extreme Environmental Conditions: Methodology and Baseline Results. , 2019, , .		10
27	Wave-Powered AUV Recharging: A Feasibility Study. , 2019, , .		2
28	Extreme Load Computational Fluid Dynamics Analysis and Verification for a Multibody Wave Energy Converter. , 2019, , .		3
29	The Wave Energy Converter Control Competition: Overview. , 2019, , .		6
30	Control of Three Degrees-of-Freedom Wave Energy Converters Using Pseudo-Spectral Methods. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	1.6	7
31	Full long-term design response analysis of a wave energy converter. Renewable Energy, 2018, 116, 356-366.	8.9	22
32	Design Load Analysis for Wave Energy Converters. , 2018, , .		4
33	On the Development of an Efficient Surrogate Model for Predicting Long-Term Extreme Loads on a Wave Energy Converter. , 2018, , .		0
34	Alternative approaches to develop environmental contours from metocean data. Journal of Ocean Engineering and Marine Energy, 2018, 4, 293-310.	1.7	50
35	Feedback Resonating Control for a Wave Energy Converter. , 2018, , .		3
36	A Survey of WEC Reliability, Survival and Design Practices. Energies, 2018, 11, 4.	3.1	39

#	ARTICLE	IF	CITATIONS
37	Multiresonant Feedback Control of a Three-Degree-of-Freedom Wave Energy Converter. IEEE Transactions on Sustainable Energy, 2017, 8, 1518-1527.	8.8	29
38	Model Predictive Control of parametric excited pitch-surge modes in wave energy converters. International Journal of Marine Energy, 2017, 19, 32-46.	1.8	27
39	WEC Geometry Optimization With Advanced Control. , 2017, , .		4
40	On the Long-Term Reliability Analysis of a Point Absorber Wave Energy Converter. , 2017, , .		1
41	A comparison of control strategies for wave energy converters. International Journal of Marine Energy, 2017, 20, 45-63.	1.8	47
42	An Assessment of WEC Control Performance Uncertainty. , 2017, , .		0
43	System Identification of a Heaving Point Absorber: Design of Experiment and Device Modeling. Energies, 2017, 10, 472.	3.1	44
44	On the control design of wave energy converters with wave prediction. Journal of Ocean Engineering and Marine Energy, 2016, 2, 473-483.	1.7	18
45	Estimation of excitation force on wave energy converters using pressure measurements for feedback control. , 2016, , .		7
46	Sensitivity of a Wave Energy Converter Dynamics Model to Nonlinear Hydrostatic Models. , 2015, , .		3
47	Preliminary Wave Energy Converters Extreme Load Analysis. , 2015, , .		7
48	Comparison of methods for estimating short-term extreme response of wave energy converters. , 2015, , .		3
49	Nonlinear time-domain performance model for a wave energy converter in three dimensions. , 2014, , .		4
50	Use of Overset Mesh to Allow Dynamic Deflection of Tight-Fitting Control Surfaces in CFD Simulations. , 2013, , .		0
51	Design and testing of a Self-Mooring AUV. , 2012, , .		1
52	Asymmetrical wake and propulsor effects on control surface effectiveness on AUVs. , 2012, , .		2
53	Amplitude effects on virtual PMM tests. , 2012, , .		4
54	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