

Gregor J Macfarlane

List of Publications by Year in descending order

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papers

905
citations

471509

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454955

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37
all docs

37
docs citations

37
times ranked

456
citing authors

#	ARTICLE	IF	CITATIONS
1	Scaling and air compressibility effects on a three-dimensional offshore stationary OWC wave energy converter. <i>Applied Energy</i> , 2017, 189, 1-20.	10.1	102
2	Experimental and numerical investigations on the hydrodynamic performance of a floating moored oscillating water column wave energy converter. <i>Applied Energy</i> , 2017, 205, 369-390.	10.1	100
3	Hydrodynamic performance of single chamber and dual chamber offshore stationary Oscillating Water Column devices using CFD. <i>Applied Energy</i> , 2018, 228, 82-96.	10.1	80
4	Numerical energy balance analysis for an onshore oscillating water column wave energy converter. <i>Energy</i> , 2016, 116, 539-557.	8.8	74
5	Underwater geometrical impact on the hydrodynamic performance of an offshore oscillating water column wave energy converter. <i>Renewable Energy</i> , 2017, 105, 209-231.	8.9	65
6	Numerical hydrodynamic analysis of an offshore stationary floating oscillating water column wave energy converter using CFD. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2017, 9, 77-99.	2.3	58
7	Investigations on 3D effects and correlation between wave height and lip submergence of an offshore stationary OWC wave energy converter. <i>Applied Ocean Research</i> , 2017, 64, 203-216.	4.1	47
8	Experimental investigation of multiple Oscillating Water Column Wave Energy Converters integrated in a floating breakwater: Energy extraction performance. <i>Applied Ocean Research</i> , 2020, 97, 102086.	4.1	44
9	Energy balance analysis for an oscillating water column wave energy converter. <i>Ocean Engineering</i> , 2012, 54, 26-33.	4.3	41
10	Experimental and numerical measurements of wave forces on a 3D offshore stationary OWC wave energy converter. <i>Ocean Engineering</i> , 2017, 144, 98-117.	4.3	35
11	Experimental and numerical investigations on the intact and damage survivability of a floating moored oscillating water column device. <i>Applied Ocean Research</i> , 2017, 68, 276-292.	4.1	34
12	Effect of RANS-based turbulence models on nonlinear wave generation in a two-phase numerical wave tank. <i>Progress in Computational Fluid Dynamics</i> , 2017, 17, 141.	0.2	29
13	Time-frequency analysis of ship wave patterns in shallow water: modelling and experiments. <i>Ocean Engineering</i> , 2018, 158, 123-131.	4.3	24
14	A PIV investigation of OWC operation in regular, polychromatic and irregular waves. <i>Renewable Energy</i> , 2017, 103, 143-155.	8.9	21
15	Nonlinear hydrodynamic effects on a generic spherical wave energy converter. <i>Renewable Energy</i> , 2018, 118, 56-70.	8.9	21
16	Model testing of a series of bi-directional tidal turbine rotors. <i>Energy</i> , 2014, 67, 397-410.	8.8	18
17	Experimental flow field comparison for a series of scale model oscillating water column wave energy converters. <i>Marine Structures</i> , 2017, 52, 108-125.	3.8	17
18	Improving OWC performance prediction using polychromatic waves. <i>Energy</i> , 2015, 93, 1943-1952.	8.8	13

#	ARTICLE	IF	CITATIONS
19	In-situ orifice calibration for reversing oscillating flow and improved performance prediction for oscillating water column model test experiments. <i>International Journal of Marine Energy</i> , 2017, 17, 147-155.	1.8	13
20	Novel experimental modelling of the hydrodynamic interactions of arrays of wave energy converters. <i>International Journal of Marine Energy</i> , 2017, 20, 109-124.	1.8	13
21	Performance analysis of a floating breakwater integrated with multiple oscillating water column wave energy converters in regular and irregular seas. <i>Applied Ocean Research</i> , 2020, 99, 102147.	4.1	11
22	Phase Averaged Flow Analysis in an Oscillating Water Column Wave Energy Converter. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2013, 135, .	1.2	9
23	Model testing and performance comparison of plastic and metal tidal turbine rotors. <i>Applied Ocean Research</i> , 2015, 53, 116-124.	4.1	7
24	PIV investigation of 3-dimensional flow within an oscillating water column. <i>International Journal of Marine Energy</i> , 2015, 11, 120-131.	1.8	6
25	Phase Averaged Flow Analysis in an Oscillating Water Column Wave Energy Converter. , 2011, , .		4
26	A Novel Method for Generating Continuously Surfable Waves”Comparison of Predictions With Experimental Results. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2013, 135, .	1.2	4
27	A Novel Method for Generating Continuously Surfable Waves. <i>Marine Technology Society Journal</i> , 2010, 44, 7-12.	0.4	3
28	Phase averaging of the velocity fields in an oscillating water column using splines. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2012, 226, 335-345.	0.5	2
29	Wave Wake: Focus on Vessel Operations within Sheltered Waterways. <i>Journal of Ship Production and Design</i> , 2014, 30, 109-125.	0.4	2
30	Preliminary investigation on the use of tank wall reflections to model WEC array effects. <i>Ocean Engineering</i> , 2018, 164, 388-401.	4.3	2
31	Marine Vessel Wave Wake: Transient Effects When Accelerating or Decelerating. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2019, 145, 04018027.	1.2	2
32	Spectrogram analysis of surface elevation signals due to accelerating ships. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	2
33	Application of photogrammetry for spatial free surface elevation and velocity measurement in wave flumes. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2019, 233, 905-917.	0.5	1
34	A Novel Method for Generating Continuously Surfable Waves: Comparison of Predictions With Experimental Results. , 2011, , .		1
35	The Design Limitations of a Circular Wave Pool. , 2014, , .		0
36	Limitations on the Creation of Continuously Surfable Waves Generated by a Pressure Source Moving in a Circular Path. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
37	Effect of RANSbased Turbulence Models on Nonlinear Wave Generation in a TwoPhase Numerical Wave Tank. Progress in Computational Fluid Dynamics, 2016, 1, 1.	0.2	0