Gregor J Macfarlane

List of Publications by Year
in descending order

37 papers	905 citations	471509 17 h-index	454955 30 g-index
37 all docs	37 docs citations	37 times ranked	456 citing authors

#	Article	IF	Citations
1	Spectrogram analysis of surface elevation signals due to accelerating ships. Physical Review Fluids, 2021, 6, .	2.5	2
2	Experimental investigation of multiple Oscillating Water Column Wave Energy Converters integrated in a floating breakwater: Energy extraction performance. Applied Ocean Research, 2020, 97, 102086.	4.1	44
3	Performance analysis of a floating breakwater integrated with multiple oscillating water column wave energy converters in regular and irregular seas. Applied Ocean Research, 2020, 99, 102147.	4.1	11
4	Application of photogrammetry for spatial free surface elevation and velocity measurement in wave flumes. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2019, 233, 905-917.	0.5	1
5	Marine Vessel Wave Wake: Transient Effects When Accelerating or Decelerating. Journal of Waterway, Port, Coastal and Ocean Engineering, 2019, 145, 04018027.	1.2	2
6	Nonlinear hydrodynamic effects on a generic spherical wave energy converter. Renewable Energy, 2018, 118, 56-70.	8.9	21
7	Hydrodynamic performance of singleâ€“chamber and dualâ€“chamber offshoreâ€“stationary Oscillating Water Column devices using CFD. Applied Energy, 2018, 228, 82-96.	10.1	80
8	Time-frequency analysis of ship wave patterns in shallow water: modelling and experiments. Ocean Engineering, 2018, 158, 123-131.	4.3	24
9	Preliminary investigation on the use of tank wall reflections to model WEC array effects. Ocean Engineering, 2018, 164, 388-401.	4.3	2
10	Experimental flow field comparison for a series of scale model oscillating water column wave energy converters. Marine Structures, 2017, 52, 108-125.	3.8	17
11	In-situ orifice calibration for reversing oscillating flow and improved performance prediction for oscillating water column model test experiments. International Journal of Marine Energy, 2017, 17, 147-155.	1.8	13
12	Investigations on 3D effects and correlation between wave height and lip submergence of an offshore stationary OWC wave energy converter. Applied Ocean Research, 2017, 64, 203-216.	4.1	47
13	Scaling and air compressibility effects on a three-dimensional offshore stationary OWC wave energy converter. Applied Energy, 2017, 189, 1-20.	10.1	102
14	Underwater geometrical impact on the hydrodynamic performance of an offshore oscillating water columnâ€“wave energy converter. Renewable Energy, 2017, 105, 209-231.	8.9	65
15	Experimental and numerical investigations on the intact and damage survivability of a floatingâ€“moored oscillating water column device. Applied Ocean Research, 2017, 68, 276-292.	4.1	34
16	Experimental and numerical measurements of wave forces on a 3D offshore stationary OWC wave energy converter. Ocean Engineering, 2017, 144, 98-117.	4.3	35
17	Experimental and numerical investigations on the hydrodynamic performance of a floatingâ€“moored oscillating water column wave energy converter. Applied Energy, 2017, 205, 369-390.	10.1	100
18	Novel experimental modelling of the hydrodynamic interactions of arrays of wave energy converters. International Journal of Marine Energy, 2017, 20, 109-124.	1.8	13

#	Article	IF	Citations
19	Numerical hydrodynamic analysis of an offshore stationaryâ€"floating oscillating water columnâ€"wave energy converter using CFD. International Journal of Naval Architecture and Ocean Engineering, 2017, 9, 77-99.	2.3	58
20	A PIV investigation of OWC operation in regular, polychromatic and irregular waves. Renewable Energy, 2017, 103, 143-155.	8.9	21
21	Effect of RANS-based turbulence models on nonlinear wave generation in a two-phase numerical wave tank. Progress in Computational Fluid Dynamics, 2017, 17, 141.	0.2	29
22	Numerical energy balance analysis for an onshore oscillating water columnâ€"wave energy converter. Energy, 2016, 116, 539-557.	8.8	74
23	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
24	PIV investigation of 3-dimensional flow within an oscillating water column. International Journal of Marine Energy, 2015, 11, 120-131.	1.8	6
25	Model testing and performance comparison of plastic and metal tidal turbine rotors. Applied Ocean Research, 2015, 53, 116-124.	4.1	7
26	Improving OWC performance prediction using polychromatic waves. Energy, 2015, 93, 1943-1952.	8.8	13
27	Wave Wake: Focus on Vessel Operations within Sheltered Waterways. Journal of Ship Production and Design, 2014, 30, 109-125.	0.4	2
28	Model testing of a series of bi-directional tidal turbine rotors. Energy, 2014, 67, 397-410.	8.8	18
29	The Design Limitations of a Circular Wave Pool. , 2014, , .		0
30	Phase Averaged Flow Analysis in an Oscillating Water Column Wave Energy Converter. Journal of Offshore Mechanics and Arctic Engineering, 2013, 135, .	1.2	9
31	A Novel Method for Generating Continuously Surfable Wavesâ€"Comparison of Predictions With Experimental Results. Journal of Offshore Mechanics and Arctic Engineering, 2013, 135, .	1.2	4
32	Limitations on the Creation of Continuously Surfable Waves Generated by a Pressure Source Moving in a Circular Path. , 2013, , .		0
33	Phase averaging of the velocity fields in an oscillating water column using splines. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2012, 226, 335-345.	0.5	2
34	Energy balance analysis for an oscillating water column wave energy converter. Ocean Engineering, 2012, 54, 26-33.	4.3	41
35	Phase Averaged Flow Analysis in an Oscillating Water Column Wave Energy Converter. , 2011, , .		4
36	A Novel Method for Generating Continuously Surfable Waves: Comparison of Predictions With Experimental Results. , 2011, , .		1

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37	A Novel Method for Generating Continuously Surfable Waves. Marine Technology Society Journal, 2010, 44, 7-12.	0.4	3