

Ian G Bryden

List of Publications by Year in descending order

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59
papers

1,184
citations

567281

15
h-index

395702

33
g-index

59
all docs

59
docs citations

59
times ranked

1153
citing authors

#	ARTICLE	IF	CITATIONS
1	ME1"marine energy extraction: tidal resource analysis. Renewable Energy, 2006, 31, 133-139.	8.9	139
2	Social and ecological impacts of marine energy development. Renewable and Sustainable Energy Reviews, 2015, 47, 486-495.	16.4	98
3	Contributions to atmospheric methane by natural seepages on the UK continental shelf. Marine Geology, 1997, 137, 165-189.	2.1	87
4	Assessing the potential of a simple tidal channel to deliver useful energy. Applied Ocean Research, 2004, 26, 198-204.	4.1	86
5	Tidal current resource assessment. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2007, 221, 125-135.	1.4	77
6	Laboratory-scale simulation of energy extraction from tidal currents. Renewable Energy, 2008, 33, 1267-1274.	8.9	77
7	Concurrent and legacy economic and environmental impacts from establishing a marine energy sector in Scotland. Energy Policy, 2008, 36, 2734-2753.	8.8	52
8	Innovation and cost reduction for marine renewable energy: A learning investment sensitivity analysis. Technological Forecasting and Social Change, 2014, 87, 108-124.	11.6	52
9	Choosing and evaluating sites for tidal current development. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2004, 218, 567-577.	1.4	50
10	Towards an objective method to compare energy storage technologies: development and validation of a model to determine the upper boundary of revenue available from electrical price arbitrage. Energy and Environmental Science, 2012, 5, 5425-5436.	30.8	48
11	Matching tidal current plants to local flow conditions. Energy, 1998, 23, 699-709.	8.8	47
12	How much energy can be extracted from moving water with a free surface: A question of importance in the field of tidal current energy?. Renewable Energy, 2007, 32, 1961-1966.	8.9	46
13	Contributions to atmospheric methane by natural seepages on the U.K. continental shelf. Marine Geology, 1997, 140, 427-455.	2.1	32
14	The utilisation of short term energy storage with tidal current generation systems. Energy, 2000, 25, 893-907.	8.8	27
15	Prediction of turbulent gas-solids flow in curved ducts using the Eulerian-Lagrangian method. International Journal for Numerical Methods in Fluids, 1999, 31, 579-600.	1.6	18
16	An Assessment of Tidal Streams as Energy Sources in Orkney and Shetland. Underwater Technology, 1995, 21, 21-29.	0.3	16
17	An Overview of the U.K. Marine Energy Sector. Proceedings of the IEEE, 2013, 101, 876-890.	21.3	15
18	Generating controllable velocity fluctuations using twin oscillating hydrofoils: experimental validation. Journal of Fluid Mechanics, 2014, 750, 113-123.	3.4	15

#	ARTICLE	IF	CITATIONS
19	Heat transfer characteristics of shrouded longitudinal ribs in turbulent forced convection. International Journal of Heat and Fluid Flow, 1999, 20, 374-384.	2.4	14
20	The design and commissioning of the first, circular, combined current and wave test basin. , 2014, , .		14
21	The generation of 3D flows in a combined current and wave tank. Ocean Engineering, 2015, 93, 1-10.	4.3	13
22	The marine energy resource, constraints and opportunities. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2006, 159, 55-65.	0.2	12
23	Directionality in prospective Northern UK tidal current energy deployment sites. Renewable Energy, 2012, 44, 474-477.	8.9	11
24	Creation of investor confidence: The top-level drivers for reaching maturity in marine energy. Renewable Energy, 2016, 88, 120-129.	8.9	11
25	Large-scale physical response of the tidal system to energy extraction and its significance for informing environmental and ecological impact assessment. , 2007, , .		10
26	Directional spectrum methods for deterministic waves. Ocean Engineering, 2011, 38, 1382-1396.	4.3	10
27	Generating controllable velocity fluctuations using twin oscillating hydrofoils. Journal of Fluid Mechanics, 2012, 713, 150-158.	3.4	10
28	Energy storage in association with tidal current generation systems. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2011, 225, 443-455.	1.4	9
29	Parametric models for the performance of wave energy converters. Applied Ocean Research, 2012, 38, 112-124.	4.1	8
30	Tidal Energy. , 2004, , 139-150.		8
31	Validation of a hydrodynamic model for a curved, multi-paddle wave tank. Applied Ocean Research, 2014, 44, 39-52.	4.1	7
32	The effect of inlet design on the flow within a combined waves and current flumes, test tank and basins. Coastal Engineering, 2015, 95, 117-129.	4.0	7
33	Generation of three-dimensional random waves. Journal Physics D: Applied Physics, 1984, 17, 2351-2366.	2.8	6
34	The use of conditioned axial flow impellers to generate a current in test tanks. Ocean Engineering, 2014, 75, 37-45.	4.3	6
35	Update on the Design of a 1:33 Scale Model of a Modified Edinburgh Duck WEC. , 2008, , .		5
36	The Sensitivity of a Dispersion Model to Cuttings Settling Speeds. Underwater Technology, 1999, 24, 19-24.	0.3	4

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37	Progress towards a viable UK Marine renewable energy. , 2010, , 2-13.		4
38	Vertical mixing layer development. European Journal of Mechanics, B/Fluids, 2014, 43, 76-84.	2.5	4
39	Numerical analysis of force-feedback control in a circular tank. Applied Ocean Research, 2014, 47, 329-343.	4.1	4
40	Overcoming the marine energy pre-profit phase: What classifies the game-changing 'array-scale success'? International Journal of Marine Energy, 2016, 13, 180-192.	1.8	4
41	COMPUTER-CONTROLLED SIMULATION OF SHORT-CRESTED SEAS.. Proceedings of the Institution of Civil Engineers, 1990, 89, 207-224.	0.1	3
42	Acoustic beamforming using a novel correlation technique. Measurement Science and Technology, 1991, 2, 229-237.	2.6	3
43	Tidal Current Energy: Development of a Device Performance Protocol. , 2007, , .		3
44	Influence of a quadratic power take-off on the behaviour of a self-contained inertial referenced wave energy converter. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2012, 226, 15-22.	0.5	3
45	Tidal Energy tide/tidal energy. , 2013, , 1466-1474.		3
46	Tidal Power Systems. , 2003, , 751-761.		2
47	An experimental survey in the wake of a simulated tidal current turbine. Journal of Marine Engineering and Technology, 2008, 7, 13-22.	4.1	2
48	An active sonar system using ACVD beamforming. Applied Acoustics, 1989, 27, 275-285.	3.3	1
49	On the Interaction of Waves With an Array of Open Chambered Structures: Application to Wave Energy Converters. , 2010, , .		1
50	Experiments on the probability of wave breaking in random seas. Applied Ocean Research, 1992, 14, 11-21.	4.1	0
51	Tidal Energy. , 2004, , 391-400.		0
52	Discussion: The marine energy resource, constraints and opportunities. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2006, 159, 131-131.	0.2	0
53	Overview of the SUPERGEN Marine Energy Research Program. , 2007, , .		0
54	Nonlinear Modelling of Power Take Off Systems. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
55	The CFD Simulation of a Lifting Hydrofoil in Close Proximity to a Free Surface. , 2010, , .		0
56	Marine renewable energy in the United Kingdom and the role of the University of Edinburgh. , 2010, , .		0
57	Development of Fixed Hydrodynamic Lifting Surfaces to Stabilise Anchoring Structures in Energetic Tidal Flows. , 2012, , .		0
58	Ocean Energy. Materials and Energy, 2013, , 343-358.	0.1	0
59	Tidal Energy tide/tidal energy. , 2012, , 10613-10621.		0