

Thomas A A Adcock

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

1,590
citations

411340

20
h-index

355658

38
g-index

73
all docs

73
docs citations

73
times ranked

1183
citing authors

#	ARTICLE	IF	CITATIONS
1	Harmonic-induced wave breaking due to abrupt depth transitions: An experimental and numerical study. <i>Coastal Engineering</i> , 2022, 171, 104041.	1.7	9
2	Estimating ocean wave directional spreading using wave following buoys: a comparison of experimental buoy and gauge data. <i>Journal of Ocean Engineering and Marine Energy</i> , 2022, 8, 83-97.	0.9	3
3	Wave breaking and jet formation on axisymmetric surface gravity waves. <i>Journal of Fluid Mechanics</i> , 2022, 935, .	1.4	5
4	Estimating space-time wave statistics using a sequential sampling method and Gaussian process regression. <i>Applied Ocean Research</i> , 2022, 122, 103127.	1.8	3
5	A reduced order model for space-time wave statistics using probabilistic decomposition-synthesis method. <i>Ocean Engineering</i> , 2022, 259, 111860.	1.9	3
6	The Fluid Mechanics of Tidal Stream Energy Conversion. <i>Annual Review of Fluid Mechanics</i> , 2021, 53, 287-310.	10.8	39
7	Spatial evolution of the kurtosis of steep unidirectional random waves. <i>Journal of Fluid Mechanics</i> , 2021, 908, .	1.4	16
8	Rapid spectral evolution of steep surface wave groups with directional spreading. <i>Journal of Fluid Mechanics</i> , 2021, 907, .	1.4	8
9	Surface wavepackets subject to an abrupt depth change. Part 2. Experimental analysis. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	1.4	19
10	Surface wavepackets subject to an abrupt depth change. Part 1. Second-order theory. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	1.4	26
11	Anomalous wave statistics following sudden depth transitions: application of an alternative Boussinesq-type formulation. <i>Journal of Ocean Engineering and Marine Energy</i> , 2021, 7, 145-155.	0.9	0
12	Why rogue waves occur atop abrupt depth transitions. <i>Journal of Fluid Mechanics</i> , 2021, 919, .	1.4	28
13	The influence of finite depth on the evolution of extreme wave statistics in numerical wave tanks. <i>Coastal Engineering</i> , 2021, 166, 103870.	1.7	9
14	Fractal-like actuator disc theory for optimal energy extraction. <i>Journal of Fluid Mechanics</i> , 2021, 927, .	1.4	6
15	Data driven analysis on the extreme wave statistics over an area. <i>Applied Ocean Research</i> , 2021, 115, 102809.	1.8	4
16	A Note on the Effects of Local Blockage and Dynamic Tuning on Tidal Turbine Performance. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2021, 143, .	0.6	0
17	Tidal energy resource in Larantuka Strait, Indonesia. <i>Proceedings of Institution of Civil Engineers: Energy</i> , 2020, 173, 81-92.	0.5	9
18	Modification of tidal resonance in the Severn Estuary by a barrage and lagoon. <i>Journal of Ocean Engineering and Marine Energy</i> , 2020, 6, 171-181.	0.9	3

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19	Experimental investigation of higher harmonic wave loads and moments on a vertical cylinder by a phase-manipulation method. <i>Coastal Engineering</i> , 2020, 160, 103747.	1.7	17
20	The effect of bed roughness uncertainty on tidal stream power estimates for the Pentland Firth. <i>Royal Society Open Science</i> , 2020, 7, 191127.	1.1	4
21	Fully nonlinear simulations of unidirectional extreme waves provoked by strong depth transitions: The effect of slope. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	34
22	Nonlinear Evolution of a Steep, Focusing Wave Group in Deep Water Simulated With oceanwave3d. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2020, 142, .	0.6	10
23	Combined power and thrust capping in the design of tidal turbine farms. <i>Renewable Energy</i> , 2019, 133, 1247-1256.	4.3	2
24	Field measurement of nonlinear changes to large gravity wave groups. <i>Journal of Fluid Mechanics</i> , 2019, 873, 1158-1178.	1.4	5
25	The impact of a tidal barrage on coastal flooding due to storm surge in the Severn Estuary. <i>Journal of Ocean Engineering and Marine Energy</i> , 2019, 5, 217-226.	0.9	5
26	A Note on the Second-Order Contribution to Extreme Waves Generated During Hurricanes. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2019, 141, .	0.6	3
27	Foundations of offshore wind turbines: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 104, 379-393.	8.2	270
28	A note on the tuning of tidal turbines in channels. <i>Journal of Ocean Engineering and Marine Energy</i> , 2019, 5, 85-98.	0.9	5
29	Spatiotemporal Prediction of Tidal Currents Using Gaussian Processes. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 2697-2715.	1.0	16
30	On the arrangement of tidal turbines in rough and oscillatory channel flow. <i>Journal of Fluid Mechanics</i> , 2019, 865, 790-810.	1.4	11
31	Laboratory recreation of the Draupner wave and the role of breaking in crossing seas. <i>Journal of Fluid Mechanics</i> , 2019, 860, 767-786.	1.4	76
32	Impact of the Swansea Bay Lagoon on Storm Surges in the Bristol Channel. , 2019, , .		2
33	Implementation of Tidal Stream Turbines and Tidal Barrage Structures in DG-SWEM. , 2019, , .		4
34	Assessment of the Malaysian tidal stream energy resource using an upper bound approach. <i>Journal of Ocean Engineering and Marine Energy</i> , 2018, 4, 99-109.	0.9	13
35	Prediction of tidal currents using Bayesian machine learning. <i>Ocean Engineering</i> , 2018, 158, 221-231.	1.9	24
36	The set-down and set-up of directionally spread and crossing surface gravity wave groups. <i>Journal of Fluid Mechanics</i> , 2018, 835, 131-169.	1.4	25

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37	Performance of non-uniform tidal turbine arrays in uniform flow. <i>Journal of Ocean Engineering and Marine Energy</i> , 2018, 4, 231-241.	0.9	3
38	Tidal range energy resource and optimization – Past perspectives and future challenges. <i>Renewable Energy</i> , 2018, 127, 763-778.	4.3	148
39	A note on the set-up under the Draupner wave. <i>Journal of Ocean Engineering and Marine Energy</i> , 2017, 3, 89-94.	0.9	3
40	The waves at the Mulberry Harbours. <i>Journal of Ocean Engineering and Marine Energy</i> , 2017, 3, 285-292.	0.9	0
41	On the Tidal Resonance of the Bristol Channel. <i>International Journal of Offshore and Polar Engineering</i> , 2017, 27, 177-183.	0.3	10
42	On the shape of large wave-groups on deep water – The influence of bandwidth and spreading. <i>Physics of Fluids</i> , 2016, 28, .	1.6	8
43	DeRisk – Accurate Prediction of ULS Wave Loads. Outlook and First Results. <i>Energy Procedia</i> , 2016, 94, 379-387.	1.8	24
44	Performance of an ideal turbine in an inviscid shear flow. <i>Journal of Fluid Mechanics</i> , 2016, 796, 86-112.	1.4	23
45	Non-linear evolution of uni-directional focussed wave-groups on a deep water: A comparison of models. <i>Applied Ocean Research</i> , 2016, 59, 147-152.	1.8	19
46	Fast and local non-linear evolution of steep wave-groups on deep water: A comparison of approximate models to fully non-linear simulations. <i>Physics of Fluids</i> , 2016, 28, .	1.6	15
47	On tidal stream turbines placed off headlands. <i>Journal of Renewable and Sustainable Energy</i> , 2015, 7, 061706.	0.8	5
48	A note on the variation in shape of linear rogue waves in the ocean. <i>Underwater Technology</i> , 2015, 33, 75-80.	0.3	2
49	Nonlinear dynamics of wave-groups in random seas: unexpected walls of water in the open ocean. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150660.	1.0	25
50	Tidal power generation – A review of hydrodynamic modelling. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2015, 229, 755-771.	0.8	61
51	Energy storage inherent in large tidal turbine farms. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014, 470, 20130580.	1.0	18
52	An electrical analogy for the Pentland Firth tidal stream power resource. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014, 470, 20130207.	1.0	13
53	A note on the power potential of tidal currents in channels. <i>International Journal of Marine Energy</i> , 2014, 6, 1-17.	1.8	2
54	Estimate of the tidal stream power resource of the Pentland Firth. <i>Renewable Energy</i> , 2014, 63, 650-657.	4.3	78

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55	Power extraction from tidal channels â€“ Multiple tidal constituents, compound tides and overtides. Renewable Energy, 2014, 63, 797-806.	4.3	26
56	Tidal stream power in the Pentland Firth â€“ long-term variability, multiple constituents and capacity factor. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2014, 228, 854-861.	0.8	16
57	The physics of anomalous (â€“rogueâ€™) ocean waves. Reports on Progress in Physics, 2014, 77, 105901.	8.1	84
58	On the Tidal Stream Resource of Two Headland Sites in the English Channel: Portland Bill and Isle of Wight. , 2014, , .		6
59	Tidal stream energy resource assessment of the Anglesey Skerries. International Journal of Marine Energy, 2013, 3-4, e98-e111.	1.8	52
60	The available power from tidal stream turbines in the Pentland Firth. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20130072.	1.0	93
61	Unidirectional power extraction from a channel connecting a bay to the open ocean. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2013, 227, 826-832.	0.8	3
62	The nonlinear evolution and approximate scaling of directionally spread wave groups on deep water. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 2704-2721.	1.0	20
63	Did the Draupner wave occur in a crossing sea?. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 3004-3021.	1.0	58
64	Briefing: Young Coastal Scientists and Engineers Conference 2010. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2011, 164, 3-13.	1.4	3
65	The Focusing of Uni-Directional Gaussian Wave-Groups in Finite Depth: An Approximate NLSE Based Approach. , 2010, , .		5
66	The Mulberry Harbours: A Review of an Early Example of Offshore Engineering. , 2009, , .		1
67	Focusing of unidirectional wave groups on deep water: an approximate nonlinear SchrÃ¶dinger equation-based model. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2009, 465, 3083-3102.	1.0	30
68	Estimating ocean wave directional spreading from an Eulerian surface elevation time history. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2009, 465, 3361-3381.	1.0	20