Giles A Thomas

List of Publications by Year
in descending order

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101	1,371	331670	434195
papers	citations	21 h-index	31 g-index

102	102	102	755
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Three-dimensional numerical simulations of straight-bladed vertical axis tidal turbines investigating power output, torque ripple and mounting forces. Renewable Energy, 2015, 83, 67-77.	8.9	94
2	Ship resistance when operating in floating ice floes: A combined CFD&DEM approach. Marine Structures, 2020, 74, 102817.	3.8	65
3	Numerical investigation of the influence of blade helicity on the performance characteristics of vertical axis tidal turbines. Renewable Energy, 2015, 81, 926-935.	8.9	59
4	Fluid-structure interaction of a large ice sheet in waves. Ocean Engineering, 2019, 182, 102-111.	4.3	57
5	The influence of turbulence model and two and three-dimensional domain selection on the simulated performance characteristics of vertical axis tidal turbines. Renewable Energy, 2017, 105, 106-116.	8.9	42
6	Experimental drop test investigation into wetdeck slamming loads on a generic catamaran hullform. Ocean Engineering, 2016, 117, 143-153.	4.3	40
7	Slam events of high-speed catamarans in irregular waves. Journal of Marine Science and Technology, 2011, 16, 8-21.	2.9	39
8	Novel CFD-based full-scale resistance prediction for large medium-speed catamarans. Ocean Engineering, 2016, 111, 198-208.	4.3	39
9	An insight into the slamming behaviour of large high-speed catamarans through full-scale measurements. Journal of Marine Science and Technology, 2014, 19, 15-32.	2.9	36
10	Wave excited motion of a body floating on water confined between two semi-infinite ice sheets. Physics of Fluids, 2016, 28, .	4.0	33
11	Docking Control of an Autonomous Underwater
Vehicle Using Reinforcement Learning. Applied Sciences (Switzerland), 2019, 9, 3456.	2.5	33
12	Towards Real-Time Reinforcement Learning Control of a Wave Energy Converter. Journal of Marine Science and Engineering, 2020, 8, 845.	2.6	33
13	Control of a ROV carrying an object. Ocean Engineering, 2018, 165, 307-318.	4.3	31
14	Ship resistance when operating in floating ice floes: Derivation, validation, and application of an empirical equation. Marine Structures, 2021, 79, 103057.	3.8	31
15	Unsupervised anomaly detection for underwater gliders using generative adversarial networks. Engineering Applications of Artificial Intelligence, 2021, 104, 104379.	8.1	30
16	Wave-induced collisions of thin floating disks. Physics of Fluids, 2017, 29, .	4.0	29
17	The vibratory damping of large high-speed catamarans. Marine Structures, 2008, 21, 1-22.	3.8	26
18	Fluidâ€“structure interaction simulation of slam-induced bending in large high-speed wave-piercing catamarans. Journal of Fluids and Structures, 2018, 82, 35-58.	3.4	26

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19	Surge motion of an ice floe in waves: comparison of a theoretical and an experimental model. Annals of Glaciology, 2015, 56, 155-159.	1.4	25
20	A new approach for the large deflection finite element analysis of isotropic and composite plates with arbitrary orientated stiffeners. Finite Elements in Analysis and Design, 2007, 43, 989-1002.	3.2	23
21	The effect of mesh orientation on netting drag and its application to innovative prawn trawl design. Fisheries Research, 2015, 164, 206-213.	1.7	22
22	Hydrodynamic Modelling of An Oscillating Wave Surge Converter Including Power Take-Off. Journal of Marine Science and Engineering, 2020, 8, 771.	2.6	22
23	Experimental investigation of wave-in-deck impact events on a TLP model. Ocean Engineering, 2017, 142, 541-562.	4.3	19
24	Simulation of a ship operating in an open-water ice channel. Ships and Offshore Structures, 2021, 16, 353-362.	1.9	19
25	Model testing of a series of bi-directional tidal turbine rotors. Energy, 2014, 67, 397-410.	8.8	18
26	The effect of centre bow and wet-deck geometry on wet-deck slamming loads and vertical bending moments of wave-piercing catamarans. Ocean Engineering, 2018, 169, 401-417.	4.3	18
27	Finite element modeling for the progressive collapse analysis of steel stiffened-plate structures in fires. Thin-Walled Structures, 2021, 159, 107262.	5.3	18
28	Machine learning for shaft power prediction and analysis of fouling related performance deterioration. Ocean Engineering, 2021, 234, 108886.	4.3	18
29	Numerical simulation of the loading characteristics of straight and helical-bladed vertical axis tidal turbines. Renewable Energy, 2016, 94, 418-428.	8.9	17
30	Simulation of Wave Interaction With a Circular Ice Floe. Journal of Offshore Mechanics and Arctic Engineering, 2019, 141, .	1.2	17
31	An experimental investigation on slamming kinematics, impulse and energy transfer for high-speed catamarans equipped with Ride Control Systems. Ocean Engineering, 2019, 178, 410-422.	4.3	17
32	Wetdeck slamming loads on a developed catamaran hullform â€“ experimental investigation. Ships and Offshore Structures, 2017, 12, 653-661.	1.9	16
33	An Experimental Investigation of Ride Control Algorithms for High-Speed Catamarans Part 1: Reduction of Ship Motions. Journal of Ship Research, 2017, 61, 35-49.	1.1	16
34	Full-scale fire testing to collapse of steel stiffened plate structures under lateral patch loading (part) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.9	16
35	An Arctic ship performance model for sea routes in ice-infested waters. Applied Ocean Research, 2021, 117, 102950.	4.1	15
36	The effect of slamming and whipping on the fatigue life of a high-speed catamaran. Australian Journal of Mechanical Engineering, 2006, 3, 165-174.	2.1	14

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37	A comparison of two ship performance models against full-scale measurements on a cargo ship on the Northern Sea Route. Ships and Offshore Structures, 2021, 16, 237-244.	1.9	14
38	A remote anomaly detection system for Slocum underwater gliders. Ocean Engineering, 2021, 236, 109531.	4.3	14
39	Slam loads and pressures acting on high-speed wave-piercing catamarans in regular waves. Marine Structures, 2019, 66, 136-153.	3.8	13
40	Full-scale fire testing to collapse of steel stiffened plate structures under lateral patch loading (part) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.9	13
41	Numerical Prediction of Symmetric Water Impact Loads on Wedge Shaped Hull Form Using CFD. World Journal of Mechanics, 2013, 03, 311-318.	0.4	13
42	Numerical analysis of a leading edge tubercle hydrofoil in turbulent regime. Journal of Fluid Mechanics, 2019, 878, 292-305.	3.4	11
43	An approach for the accurate investigation of full-scale ship boundary layers and wakes. Ocean Engineering, 2020, 214, 107854.	4.3	11
44	A new method for determining the design values of wave-induced hull girder loads acting on ships. Ships and Offshore Structures, 2019, 14, 63-90.	1.9	10
45	Identification of slam events experienced by a high-speed craft. Ocean Engineering, 2017, 140, 309-321.	4.3	9
46	Towards autonomy: A recommender system for the determination of trim and flight parameters for Seagliders. Ocean Engineering, 2019, 189, 106338.	4.3	9
47	An Experimental Investigation of Ride Control Algorithms for High-Speed Catamarans Part 2: Mitigation of Wave Impact Loads. Journal of Ship Research, 2017, 61, 51-63.	1.1	9
48	Wave-in-Deck Forces on Fixed Horizontal Decks of Offshore Platforms. , 2014, , .		8
49	The â€˜Wâ€™ Prawn-Trawl with Emphasised Drag-Force Transfer to Its Centre Line to Reduce Overall System Drag. PLoS ONE, 2015, 10, e0119622.	2.5	8
50	Wet-deck slamming loads and pressures acting on wave piercing catamarans. International Shipbuilding Progress, 2019, 66, 201-231.	0.4	8
51	Hydrodynamic Modelling for a Transportation System of Two Unmanned Underwater Vehicles: Semi-Empirical, Numerical and Experimental Analyses. Journal of Marine Science and Engineering, 2021, 9, 500.	2.6	8
52	An Experimental Investigation of Ride Control Algorithms for High-Speed Catamarans Part 2: Mitigation of Wave Impact Loads. Journal of Ship Research, 2017, 61, 51-63.	1.1	8
53	COVID-19 transmission inside a small passenger vessel: Risks and mitigation. Ocean Engineering, 2022, 255, 111486.	4.3	8
54	Drag characterisation of prawn-trawl bodies. Ocean Engineering, 2016, 113, 18-23.	4.3	7

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55	Slam Loads and Kinematics of Wave-Piercing Catamarans During Bow Entry Events in Head Seas. Journal of Ship Research, 2018, 62, 134-155.	1.1	7
56	Through-life hybrid fatigue assessment of naval ships. Ships and Offshore Structures, 2019, 14, 664-674.	1.9	7
57	Numerical simulation of foil with leading-edge tubercle for vertical-axis tidal-current turbine. Journal of Mechanical Engineering and Sciences, 2020, 14, 6982-6992.	0.6	7
58	Slamming Response of a Large High-Speed Wave-Piercer Catamaran. Marine Technology, 2003, 40, 126-140.	0.2	6
59	Dynamic stability in following seas: predictive and experimental approaches. Journal of Marine Science and Technology, 2007, 12, 111-118.	2.9	5
60	On the avoidance of parametric roll in head seas. Ships and Offshore Structures, 2010, 5, 295-306.	1.9	5
61	Experimental investigation into wave-induced design loads on a large moored catamaran. Ships and Offshore Structures, 2011, 6, 273-295.	1.9	5
62	Effect of Slam Force Duration on the Vibratory Response of a Lightweight High-Speed Wave-Piercing Catamaran. Journal of Ship Research, 2015, 59, 69-84.	1.1	5
63	Experimental investigation of extreme wave impacts on a rigid TLP model in cyclonic conditions. Ships and Offshore Structures, 2017, 12, 153-170.	1.9	5
64	Measurements of global and local effects of wave impact on a fixed platform deck. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2017, 231, 212-233.	0.5	5
65	Influence of an active T-foil on motions and passenger comfort of a large high-speed wave-piercing catamaran based on sea trials. Journal of Marine Science and Technology, 2022, 27, 856-872.	2.9	5
66	A Practical Design Approach including Resistance Predictions for Medium-speed Catamarans. Ship Technology Research, 2013, 60, 4-12.	2.5	4
67	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
68	Autonomous Detection of the Loss of a Wing for Underwater Gliders. , 2020, , .		4
69	A Novel Method for Generating Continuously Surfable Waves. Marine Technology Society Journal, 2010, 44, 7-12.	0.4	3
70	Centre bow and wet-deck design for motion and load reductions in wave piercing catamarans at medium speed. Ships and Offshore Structures, 2021, 16, 83-99.	1.9	3
71	Data-Driven Stability Assessment of Multilayer Long Short-Term Memory Networks. Applied Sciences (Switzerland), 2021, 11, 1829.	2.5	3
72	Toward Improvement of Resistance Testing Reliability. Journal of Engineering and Technological Sciences, 2021, 53, 210201.	0.6	3

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73	A Marine Growth Detection System for Underwater Gliders. IEEE Journal of Oceanic Engineering, 2021, , 1-15.	3.8	3
74	The Impact of Extreme Wave Events on a Fixed Multicolumn Offshore Platform. International Journal of Offshore and Polar Engineering, 2017, 27, 293-300.	0.8	3
75	Identification of the Dynamics of Biofouled Underwater Gliders. , 2020, , .		3
76	The Formation of Surfable Waves in a Circular Wave Pool: Comparison of Numerical and Experimental Approaches. , 2012, , .		2
77	The influence of the centre bow and wet-deck geometry on motions of wave-piercing catamarans. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2019, 233, 474-487.	0.5	2
78	Slam Excitation Scales for a Large Wave Piercing Catamaran and the Effect on Structural Response. , 2015, , .		2
79	Analysis of fire-induced progressive collapse for topside structures of a VLCC-class ship-shaped offshore installation. Ships and Offshore Structures, 0, , 1-15.	1.9	2
80	New tools to generate realistic ice floe fields for computational models. Journal of Offshore Mechanics and Arctic Engineering, 0, , 1-9.	1.2	2
81	Wave-Induced Motions of Gas Cat: A Novel Catamaran for Gas Processing and Offloading. Journal of Offshore Mechanics and Arctic Engineering, 2012, 134, .	1.2	1
82	Prediction of Water Wave Propagation Using Computational Fluid Dynamics. , 2013, , .		1
83	Full-scale resistance prediction in finite waters: A study using computational fluid dynamics simulations, model test experiments and sea trial measurements. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2017, 231, 316-328.	0.5	1
84	Interdependencies between variables in fatigue analysis of a weight-optimised naval ship. Procedia Structural Integrity, 2019, 22, 267-274.	0.8	1
85	A Novel Method for Generating Continuously Surfable Waves: Comparison of Predictions With Experimental Results. , 2011, , .		1
86	Ship Resistance When Operating in Floating Ice Floes: A Derivation of Empirical Equations. , 2020, , .		1
87	The Influences of Centre Bow Length on Slamming Loads and Motions of Large Wave-Piercing Catamarans. , 2018, Vol 160, .		1
88	Full-Scale Simulation-Based Hull Form Design for Large Medium-Speed Catamarans with High Fuel Efficiency. , 2015, , .		1
89	Prediction of Slamming Loads on Catamaran Wetdeck Using CFD. , 2015, , .		1
90	Open-source Simulation of Underwater Gliders. , 2021, , .		1

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91	Anomaly Detection and Fault Diagnostics for Underwater Gliders Using Deep Learning. , 2021, , .		1
92	The Design Limitations of a Circular Wave Pool. , 2014, , .		0
93	Slam occurrences and loads of a high-speed wave piercer catamaran in irregular seas. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2015, 229, 45-57.	0.5	0
94	Influence of Channel Shape on Wave-Generated Parameters by a Pressure Source in Shallow Water. Journal of Waterway, Port, Coastal and Ocean Engineering, 2017, 143, 04017016.	1.2	0
95	An Investigation into the Operational Characteristics of High-Speed Crew Boat Based on Artificial Neural Network. IOP Conference Series: Earth and Environmental Science, 2020, 557, 012054.	0.3	0
96	Collision Avoidance of External Obstacles for an Underwater Transportation System. Journal of Robotics and Control (JRC), 2021, 2, .	1.3	0
97	Wave-Induced Motions of Gas Cat: A Novel Catamaran for Gas Processing and Offloading. , 2009, , .		0
98	Limitations on the Creation of Continuously Surfable Waves Generated by a Pressure Source Moving in a Circular Path. , 2013, , .		0
99	An investigation into the effect of pressure source parameters and water depth on the wake wash wave generated by moving pressure source. Scientia Iranica, 2017, .	0.4	0
100	Development of a Simulation Platform for Underwater Transportation using Two Hovering Autonomous Underwater Vehicles. , 0, , .		0
101	Influence of an active T-foil on motions and passenger comfort of a wave-piercing catamaran based on sea trials in oblique seas. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 0, , 147509022211111.	0.5	0