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	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
2	COVID-19 transmission inside a small passenger vessel: Risks and mitigation. Ocean Engineering, 2022, 255, 111486.	4.3	8
3	Simulation of a ship operating in an open-water ice channel. Ships and Offshore Structures, 2021, 16, 353-362.	1.9	19
4	Finite element modeling for the progressive collapse analysis of steel stiffened-plate structures in fires. Thin-Walled Structures, 2021, 159, 107262.	5.3	18
5	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
6	Collision Avoidance of External Obstacles for an Underwater Transportation System. Journal of Robotics and Control (JRC), 2021, 2, .	1.3	0
7	Data-Driven Stability Assessment of Multilayer Long Short-Term Memory Networks. Applied Sciences (Switzerland), 2021, 11, 1829.	2.5	3
8	Toward Improvement of Resistance Testing Reliability. Journal of Engineering and Technological Sciences, 2021, 53, 210201.	0.6	3
9	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
10	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
11	Machine learning for shaft power prediction and analysis of fouling related performance deterioration. Ocean Engineering, 2021, 234, 108886.	4.3	18
12	Unsupervised anomaly detection for underwater gliders using generative adversarial networks. Engineering Applications of Artificial Intelligence, 2021, 104, 104379.	8.1	30
13	A remote anomaly detection system for Slocum underwater gliders. Ocean Engineering, 2021, 236, 109531.	4.3	14
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	A Marine Growth Detection System for Underwater Gliders. IEEE Journal of Oceanic Engineering, 2021, , 1-15.	3.8	3
16	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
17	Full-scale fire testing to collapse of steel stiffened plate structures under lateral patch loading (part) Tj ETQq1 1 0.784314 rgBT /Overl	1.9	13
18	An Arctic ship performance model for sea routes in ice-infested waters. Applied Ocean Research, 2021, 117, 102950.	4.1	15

#	Article	IF	Citations
19	Open-source Simulation of Underwater Gliders. , 2021, , .		1
20	Anomaly Detection and Fault Diagnostics for Underwater Gliders Using Deep Learning. , 2021, , .		1
21	Ship resistance when operating in floating ice floes: A combined CFD&DEM approach. Marine Structures, 2020, 74, 102817.	3.8	65
22	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
23	Hydrodynamic Modelling of An Oscillating Wave Surge Converter Including Power Take-Off. Journal of Marine Science and Engineering, 2020, 8, 771.	2.6	22
24	Towards Real-Time Reinforcement Learning Control of a Wave Energy Converter. Journal of Marine Science and Engineering, 2020, 8, 845.	2.6	33
25	An approach for the accurate investigation of full-scale ship boundary layers and wakes. Ocean Engineering, 2020, 214, 107854.	4.3	11
26	Ship Resistance When Operating in Floating Ice Floes: A Derivation of Empirical Equations. , 2020, , .		1
27	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
28	Autonomous Detection of the Loss of a Wing for Underwater Gliders. , 2020, , .		4
29	Identification of the Dynamics of Biofouled Underwater Gliders. , 2020, , .		3
30	Docking Control of an Autonomous Underwater
Vehicle Using Reinforcement Learning. Applied Sciences (Switzerland), 2019, 9, 3456.	2.5	33
31	Simulation of Wave Interaction With a Circular Ice Floe. Journal of Offshore Mechanics and Arctic Engineering, 2019, 141, .	1.2	17
32	Wet-deck slamming loads and pressures acting on wave piercing catamarans. International Shipbuilding Progress, 2019, 66, 201-231.	0.4	8
33	Towards autonomy: A recommender system for the determination of trim and flight parameters for Seagliders. Ocean Engineering, 2019, 189, 106338.	4.3	9
34	Numerical analysis of a leading edge tubercle hydrofoil in turbulent regime. Journal of Fluid Mechanics, 2019, 878, 292-305.	3.4	11
35	Slam loads and pressures acting on high-speed wave-piercing catamarans in regular waves. Marine Structures, 2019, 66, 136-153.	3.8	13
36	Fluid-structure interaction of a large ice sheet in waves. Ocean Engineering, 2019, 182, 102-111.	4.3	57

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37	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
38	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
39	Interdependencies between variables in fatigue analysis of a weight-optimised naval ship. Procedia Structural Integrity, 2019, 22, 267-274.	0.8	1
40	Through-life hybrid fatigue assessment of naval ships. Ships and Offshore Structures, 2019, 14, 664-674.	1.9	7
41	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
42	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
43	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
44	Control of a ROV carrying an object. Ocean Engineering, 2018, 165, 307-318.	4.3	31
45	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
46	The Influences of Centre Bow Length on Slamming Loads and Motions of Large Wave-Piercing Catamarans. , 2018, Vol 160, .		1
47	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
48	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
49	Wetdeck slamming loads on a developed catamaran hullform â€“ experimental investigation. Ships and Offshore Structures, 2017, 12, 653-661.	1.9	16
50	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
51	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
52	Experimental investigation of wave-in-deck impact events on a TLP model. Ocean Engineering, 2017, 142, 541-562.	4.3	19
53	Identification of slam events experienced by a high-speed craft. Ocean Engineering, 2017, 140, 309-321.	4.3	9
54	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

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55	Wave-induced collisions of thin floating disks. Physics of Fluids, 2017, 29, .	4.0	29
56	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
57	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
58	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
59	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
60	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
61	Wave excited motion of a body floating on water confined between two semi-infinite ice sheets. Physics of Fluids, 2016, 28, .	4.0	33
62	Numerical simulation of the loading characteristics of straight and helical-bladed vertical axis tidal turbines. Renewable Energy, 2016, 94, 418-428.	8.9	17
63	Experimental drop test investigation into wetdeck slamming loads on a generic catamaran hullform. Ocean Engineering, 2016, 117, 143-153.	4.3	40
64	Drag characterisation of prawn-trawl bodies. Ocean Engineering, 2016, 113, 18-23.	4.3	7
65	Novel CFD-based full-scale resistance prediction for large medium-speed catamarans. Ocean Engineering, 2016, 111, 198-208.	4.3	39
66	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
67	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
68	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
69	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
70	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
71	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
72	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

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73	Full-Scale Simulation-Based Hull Form Design for Large Medium-Speed Catamarans with High Fuel Efficiency. , 2015, , .		1
74	Prediction of Slamming Loads on Catamaran Wetdeck Using CFD. , 2015, , .		1
75	Slam Excitation Scales for a Large Wave Piercing Catamaran and the Effect on Structural Response. , 2015, , .		2
76	Wave-in-Deck Forces on Fixed Horizontal Decks of Offshore Platforms. , 2014, , .		8
77	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
78	Model testing of a series of bi-directional tidal turbine rotors. Energy, 2014, 67, 397-410.	8.8	18
79	The Design Limitations of a Circular Wave Pool. , 2014, , .		0
80	A Practical Design Approach including Resistance Predictions for Medium-speed Catamarans. Ship Technology Research, 2013, 60, 4-12.	2.5	4
81	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
82	Prediction of Water Wave Propagation Using Computational Fluid Dynamics. , 2013, , .		1
83	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
84	Limitations on the Creation of Continuously Surfable Waves Generated by a Pressure Source Moving in a Circular Path. , 2013, , .		0
85	The Formation of Surfable Waves in a Circular Wave Pool: Comparison of Numerical and Experimental Approaches. , 2012, , .		2
86	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
87	Experimental investigation into wave-induced design loads on a large moored catamaran. Ships and Offshore Structures, 2011, 6, 273-295.	1.9	5
88	Slam events of high-speed catamarans in irregular waves. Journal of Marine Science and Technology, 2011, 16, 8-21.	2.9	39
89	A Novel Method for Generating Continuously Surfable Waves: Comparison of Predictions With Experimental Results. , 2011, , .		1
90	A Novel Method for Generating Continuously Surfable Waves. Marine Technology Society Journal, 2010, 44, 7-12.	0.4	3

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91	On the avoidance of parametric roll in head seas. Ships and Offshore Structures, 2010, 5, 295-306.	1.9	5
92	Wave-Induced Motions of Gas Cat: A Novel Catamaran for Gas Processing and Offloading. , 2009, , .		0
93	The vibratory damping of large high-speed catamarans. Marine Structures, 2008, 21, 1-22.	3.8	26
94	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
95	Dynamic stability in following seas: predictive and experimental approaches. Journal of Marine Science and Technology, 2007, 12, 111-118.	2.9	5
96	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
97	Slamming Response of a Large High-Speed Wave-Piercer Catamaran. Marine Technology, 2003, 40, 126-140.	0.2	6
98	Development of a Simulation Platform for Underwater Transportation using Two Hovering Autonomous Underwater Vehicles. , 0, , .		0
99	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
100	New tools to generate realistic ice floe fields for computational models. Journal of Offshore Mechanics and Arctic Engineering, 0, , 1-9.	1.2	2
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