Weicheng Cui

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8077113/publications.pdf

Version: 2024-02-01

46	750	516710 16	552781 26
papers	citations	h-index	g-index

52	52	52	326
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of the Jiaolong Deep Manned Submersible. Marine Technology Society Journal, 2013, 47, 37-54.	0.4	79
2	Review of Underwater Ship Hull Cleaning Technologies. Journal of Marine Science and Application, 2020, 19, 415-429.	1.7	75
3	A unified fatigue life prediction method for marine structures. Marine Structures, 2011, 24, 153-181.	3.8	66
4	Review of Underwater Sensing Technologies and Applications. Sensors, 2021, 21, 7849.	3.8	54
5	An Overview of Submersible Research and Development in China. Journal of Marine Science and Application, 2018, 17, 459-470.	1.7	47
6	A preliminary design of a movable laboratory for hadal trenches. Methods in Oceanography, 2014, 9, 1-16.	1.6	27
7	Buckling of circumferentially corrugated cylindrical shells under uniform external pressure. Ships and Offshore Structures, 2019, 14, 879-889.	1.9	27
8	Multiple objective multidisciplinary design optimization of heavier-than-water underwater vehicle using CFD and approximation model. Journal of Marine Science and Technology, 2017, 22, 135-148.	2.9	26
9	Multi-Objective Multidisciplinary Design Optimization of a Robotic Fish System. Journal of Marine Science and Engineering, 2021, 9, 478.	2.6	24
10	Recent Progress in Modeling and Control of Bio-Inspired Fish Robots. Journal of Marine Science and Engineering, 2022, 10, 773.	2.6	23
11	Safety assessment of the acrylic conical frustum viewport structure for a deep-sea manned submersible. Ships and Offshore Structures, 2017, 12, S221-S229.	1.9	22
12	Effect of thickness on the buckling strength of egg-shaped pressure hulls. Ships and Offshore Structures, 2018, 13, 375-384.	1.9	22
13	Experimental and numerical studies on the buckling of the hemispherical shells made of maraging steel subjected to extremely high external pressure. International Journal of Pressure Vessels and Piping, 2019, 172, 56-64.	2.6	21
14	A Manta Ray Robot with Soft Material Based Flapping Wing. Journal of Marine Science and Engineering, 2022, 10, 962.	2.6	21
15	Buckling of longan-shaped shells under external pressure. Marine Structures, 2018, 60, 218-225.	3.8	20
16	Chinese Journey to the Challenger Deep: The Development and First Phase of Sea Trial of an 11,000-m Rainbowfish ARV. Marine Technology Society Journal, 2017, 51, 23-35.	0.4	16
17	Hydrodynamic force induced by vortexâ€“body interactions in orderly formations of flapping tandem flexible plates. Physics of Fluids, 2022, 34, .	4.0	15
18	Coupled material point Lattice Boltzmann method for modeling fluidâ€“structure interactions with large deformations. Computer Methods in Applied Mechanics and Engineering, 2021, 385, 114040.	6.6	14

#	Article	IF	Citations
19	Study on dented hemispheres under external hydrostatic pressure. Marine Structures, 2020, 74, 102819.	3.8	13
20	A Chinese strategy to construct a comprehensive investigation system for hadal trenches. Deep-Sea Research Part II: Topical Studies in Oceanography, 2018, 155, 27-33.	1.4	11
21	Active external control effect on the collective locomotion of two tandem self-propelled flapping plates. Physics of Fluids, 2021, 33, .	4.0	11
22	Intermittent swimming of two self-propelled flapping plates in tandem configuration. Physics of Fluids, 2022, 34, .	4.0	11
23	Design and analysis on a model sphere made of maraging steel to verify the applicability of the current design code. Ships and Offshore Structures, 2019, 14, 86-94.	1.9	8
24	An Overview of Underwater Connectors. Journal of Marine Science and Engineering, 2021, 9, 813.	2.6	8
25	Disruption-Based Multiobjective Equilibrium Optimization Algorithm. Computational Intelligence and Neuroscience, 2020, 2020, 1-21.	1.7	7
26	Active and Robust Twisting Morphing Wings With Geometric Constraints for Flying or Swimming Robots. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4205-4210.	5.8	7
27	A pointwise ensemble of surrogates with adaptive function and heuristic formulation. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	7
28	Recent Developments on the Unified Fatigue Life Prediction Method Based on Fracture Mechanics and its Applications. Journal of Marine Science and Engineering, 2020, 8, 427.	2.6	6
29	For safe and compliant interaction: an outlook of soft underwater manipulators. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2021, 235, 3-14.	0.5	6
30	Freeform Fabrication of Pneumatic Soft Robots via Multiâ€Material Jointed Direct Ink Writing. Macromolecular Materials and Engineering, 2022, 307, .	3.6	6
31	Two-Layer Path Planner for AUVs Based on the Improved AAF-RRT Algorithm. Journal of Marine Science and Application, 2022, 21, 102-115.	1.7	6
32	A Prototype Design and Sea Trials of an 11,000 m Autonomous and Remotely-Operated Vehicle Dream Chaser. Journal of Marine Science and Engineering, 2022, 10, 812.	2.6	6
33	A study on the heave performance and loads of the critical connections of a novel dry tree semisubmersible concept using numerical and experimental methods. Ocean Engineering, 2016, 124, 42-53.	4.3	5
34	A Novel Multi-Robot Task Allocation Model in Marine Plastics Cleaning Based on Replicator Dynamics. Journal of Marine Science and Engineering, 2021, 9, 879.	2.6	5
35	Finite element analysis of large-sized O-rings used in deep-ocean pressure chambers. Advances in Mechanical Engineering, 2021, 13, 168781402110406.	1.6	5
36	Review of Deep-Ocean High-Pressure Simulation Systems. Marine Technology Society Journal, 2020, 54, 68-84.	0.4	5

#	Article	IF	Citations
37	Buckling of Multiple Intersecting Spherical Shells Under Uniform External Pressure. Journal of Marine Science and Application, 2020, 19, 634-641.	1.7	4
38	An improved procedure for generating standardised load-time histories for marine structures. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2016, 230, 281-296.	0.5	3
39	First Complete Genome Sequence of Marinilactibacillus piezotolerans Strain 15R, a Marine Lactobacillus Isolated from Coal-Bearing Sediment 2.0 Kilometers below the Seafloor, Determined by PacBio Single-Molecule Real-Time Technology. Genome Announcements, 2017, 5, .	0.8	3
40	Failure process analysis of frustum windows for deep-sea manned cabin. Ships and Offshore Structures, 0, , 1-11.	1.9	2
41	Simplified hygromechanical coupling model and numerical simulation analysis of fibre reinforced composite deep-sea and underwater structures. Composite Structures, 2022, 281, 115006.	5.8	2
42	Complete Genome Sequence of Bacillus subtilis Strain 29R7-12, a Piezophilic Bacterium Isolated from Coal-Bearing Sediment 2.4 Kilometers below the Seafloor. Genome Announcements, 2017, 5, .	0.8	1
43	Failure Analysis on a Collapsed Flat Cover of an Adjustable Ballast Tank Used in Deep-Sea Submersibles. Applied Sciences (Switzerland), 2019, 9, 5258.	2.5	1
44	Design of a Practical Metal-Made Cold Isostatic Pressing (CIP) Chamber Using Finite Element Analysis. Materials, 2022, 15, 3621.	2.9	1
45	On some fundamental issues about the safety of marine structures. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2020, , 147509022095102.	0.5	0
46	Design and Modeling of WL-I Vehicle for Ship Hull Cleaning. , 2021, , .		0