

Weicheng Cui

List of Publications by Year in descending order

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46
papers

750
citations

516710

16
h-index

552781

26
g-index

52
all docs

52
docs citations

52
times ranked

326
citing authors

#	ARTICLE	IF	CITATIONS
1	Simplified hygromechanical coupling model and numerical simulation analysis of fibre reinforced composite deep-sea and underwater structures. <i>Composite Structures</i> , 2022, 281, 115006.	5.8	2
2	Active and Robust Twisting Morphing Wings With Geometric Constraints for Flying or Swimming Robots. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 4205-4210.	5.8	7
3	Intermittent swimming of two self-propelled flapping plates in tandem configuration. <i>Physics of Fluids</i> , 2022, 34, .	4.0	11
4	Freeform Fabrication of Pneumatic Soft Robots via Multi-Material Jointed Direct Ink Writing. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	3.6	6
5	Hydrodynamic force induced by vortex-body interactions in orderly formations of flapping tandem flexible plates. <i>Physics of Fluids</i> , 2022, 34, .	4.0	15
6	A pointwise ensemble of surrogates with adaptive function and heuristic formulation. <i>Structural and Multidisciplinary Optimization</i> , 2022, 65, 1.	3.5	7
7	Two-Layer Path Planner for ALVs Based on the Improved AAF-RRT Algorithm. <i>Journal of Marine Science and Application</i> , 2022, 21, 102-115.	1.7	6
8	Design of a Practical Metal-Made Cold Isostatic Pressing (CIP) Chamber Using Finite Element Analysis. <i>Materials</i> , 2022, 15, 3621.	2.9	1
9	Recent Progress in Modeling and Control of Bio-Inspired Fish Robots. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 773.	2.6	23
10	A Prototype Design and Sea Trials of an 11,000 m Autonomous and Remotely-Operated Vehicle Dream Chaser. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 812.	2.6	6
11	A Manta Ray Robot with Soft Material Based Flapping Wing. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 962.	2.6	21
12	For safe and compliant interaction: an outlook of soft underwater manipulators. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2021, 235, 3-14.	0.5	6
13	Multi-Objective Multidisciplinary Design Optimization of a Robotic Fish System. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 478.	2.6	24
14	An Overview of Underwater Connectors. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 813.	2.6	8
15	A Novel Multi-Robot Task Allocation Model in Marine Plastics Cleaning Based on Replicator Dynamics. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 879.	2.6	5
16	Finite element analysis of large-sized O-rings used in deep-ocean pressure chambers. <i>Advances in Mechanical Engineering</i> , 2021, 13, 168781402110406.	1.6	5
17	Coupled material point Lattice Boltzmann method for modeling fluid-structure interactions with large deformations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 385, 114040.	6.6	14
18	Active external control effect on the collective locomotion of two tandem self-propelled flapping plates. <i>Physics of Fluids</i> , 2021, 33, .	4.0	11

#	ARTICLE	IF	CITATIONS
19	Design and Modeling of WL-I Vehicle for Ship Hull Cleaning. , 2021, , .		0
20	Review of Underwater Sensing Technologies and Applications. Sensors, 2021, 21, 7849.	3.8	54
21	Review of Underwater Ship Hull Cleaning Technologies. Journal of Marine Science and Application, 2020, 19, 415-429.	1.7	75
22	Buckling of Multiple Intersecting Spherical Shells Under Uniform External Pressure. Journal of Marine Science and Application, 2020, 19, 634-641.	1.7	4
23	Disruption-Based Multiobjective Equilibrium Optimization Algorithm. Computational Intelligence and Neuroscience, 2020, 2020, 1-21.	1.7	7
24	Study on dented hemispheres under external hydrostatic pressure. Marine Structures, 2020, 74, 102819.	3.8	13
25	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
26	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
27	Review of Deep-Ocean High-Pressure Simulation Systems. Marine Technology Society Journal, 2020, 54, 68-84.	0.4	5
28	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
29	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
30	Buckling of circumferentially corrugated cylindrical shells under uniform external pressure. Ships and Offshore Structures, 2019, 14, 879-889.	1.9	27
31	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
32	Buckling of longan-shaped shells under external pressure. Marine Structures, 2018, 60, 218-225.	3.8	20
33	Effect of thickness on the buckling strength of egg-shaped pressure hulls. Ships and Offshore Structures, 2018, 13, 375-384.	1.9	22
34	An Overview of Submersible Research and Development in China. Journal of Marine Science and Application, 2018, 17, 459-470.	1.7	47
35	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
36	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

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37	Complete Genome Sequence of <i>Bacillus subtilis</i> Strain 29R7-12, a Piezophilic Bacterium Isolated from Coal-Bearing Sediment 2.4 Kilometers below the Seafloor. <i>Genome Announcements</i> , 2017, 5, .	0.8	1
38	First Complete Genome Sequence of <i>Marinilactibacillus piezotolerans</i> Strain 15R, a Marine <i>Lactobacillus</i> Isolated from Coal-Bearing Sediment 2.0 Kilometers below the Seafloor, Determined by PacBio Single-Molecule Real-Time Technology. <i>Genome Announcements</i> , 2017, 5, .	0.8	3
39	Safety assessment of the acrylic conical frustum viewport structure for a deep-sea manned submersible. <i>Ships and Offshore Structures</i> , 2017, 12, S221-S229.	1.9	22
40	Chinese Journey to the Challenger Deep: The Development and First Phase of Sea Trial of an 11,000-m <i>Rainbowfish</i> ARV. <i>Marine Technology Society Journal</i> , 2017, 51, 23-35.	0.4	16
41	A study on the heave performance and loads of the critical connections of a novel dry tree semisubmersible concept using numerical and experimental methods. <i>Ocean Engineering</i> , 2016, 124, 42-53.	4.3	5
42	An improved procedure for generating standardised load-time histories for marine structures. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2016, 230, 281-296.	0.5	3
43	A preliminary design of a movable laboratory for hadal trenches. <i>Methods in Oceanography</i> , 2014, 9, 1-16.	1.6	27
44	Development of the <i>Jiaolong</i> Deep Manned Submersible. <i>Marine Technology Society Journal</i> , 2013, 47, 37-54.	0.4	79
45	A unified fatigue life prediction method for marine structures. <i>Marine Structures</i> , 2011, 24, 153-181.	3.8	66
46	Failure process analysis of frustum windows for deep-sea manned cabin. <i>Ships and Offshore Structures</i> , 0, , 1-11.	1.9	2