Jiancheng Yu

List of Publications by Year in descending order

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62	796	687363 13	552781 26
papers	citations	h-index	g-index

62	62	62	544
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spiraling motion of underwater gliders: Modeling, analysis, and experimental results. Ocean Engineering, 2013, 60, 1-13.	4.3	163
2	Motion Parameter Optimization and Sensor Scheduling for the Sea-Wing Underwater Glider. IEEE Journal of Oceanic Engineering, 2013, 38, 243-254.	3.8	92
3	Research status of bionic amphibious robots: A review. Ocean Engineering, 2021, 227, 108862.	4.3	56
4	Field-observation for an anticyclonic mesoscale eddy consisted of twelve gliders and sixty-two expendable probes in the northern South China Sea during summer 2017. Science China Earth Sciences, 2019, 62, 451-458.	5.2	41
5	Glider-observed anticyclonic eddy in northern South China Sea. Aquatic Ecosystem Health and Management, 2016, 19, 233-241.	0.6	36
6	Design and analysis of folding propulsion mechanism for hybrid-driven underwater gliders. Ocean Engineering, 2016, 119, 125-134.	4.3	36
7	Current status and prospects of marine renewable energy applied in ocean robots. International Journal of Energy Research, 2019, 43, 2016-2031.	4.5	35
8	Sea surface cooling in the Northern South China Sea observed using Chinese sea-wing underwater glider measurements. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 105, 111-118.	1.4	32
9	Non-line-of-sight scattering channel modeling for underwater optical wireless communication. , 2015, , .		23
10	Development of Multibody Marine Robots: A Review. IEEE Access, 2020, 8, 21178-21195.	4.2	22
11	Time Series Prediction Methods for Depth-Averaged Current Velocities of Underwater Gliders. IEEE Access, 2017, 5, 5773-5784.	4.2	19
12	Autonomous sailboat design: A review from the performance perspective. Ocean Engineering, 2021, 238, 109753.	4.3	19
13	Study of manipulator operations maneuvered by a ROV in virtual environments. Ocean Engineering, 2017, 142, 292-302.	4.3	16
14	Conceptual design of a long-range autonomous underwater vehicle based on multidisciplinary optimization framework. Ocean Engineering, 2022, 248, 110684.	4.3	14
15	Improving the Real-time Marine Forecasting of the Northern South China Sea by Assimilation of Glider-observed T/S Profiles. Scientific Reports, 2019, 9, 17845.	3.3	13
16	Adaptive coverage sampling of thermocline with an autonomous underwater vehicle. Ocean Engineering, 2021, 233, 109151.	4.3	13
17	A Kriged Compressive Sensing Approach to Reconstruct Acoustic Fields From Measurements Collected by Underwater Vehicles. IEEE Journal of Oceanic Engineering, 2021, 46, 294-306.	3.8	12
18	Kuroshio intrusion into the South China Sea with an anticyclonic eddy: evidence from underwater glider observation. Journal of Oceanology and Limnology, 2019, 37, 1469-1480.	1.3	11

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19	Real-time quality control of data from Sea-Wing underwater glider installed with Glider Payload CTD sensor. Acta Oceanologica Sinica, 2020, 39, 130-140.	1.0	11
20	Model-Aided Localization and Navigation for Underwater Gliders Using Single-Beacon Travel-Time Differences. Sensors, 2020, 20, 893.	3.8	11
21	Surrogate Models for Shape Optimization of Underwater Glider. , 2009, , .		7
22	Numerical investigation on the swimming mode and stable spacing with two self-propelled fish arranged in tandem. Ocean Engineering, 2022, 259, 111861.	4.3	7
23	Sea-Whale 2000: A Long-range Hybrid Autonomous Underwater Vehicle for Ocean Observation. , 2019, , .		6
24	Assign multiple AUVs to form a row efficiently based on a method of processing the cost matrix. Applied Ocean Research, 2020, 101, 102177.	4.1	6
25	Self-Noise Spectrum Analysis and Joint Noise Filtering for the Sea-Wing Underwater Glider Based on Experimental Data. IEEE Access, 2020, 8, 42960-42970.	4.2	6
26	Research Status and Prospect of Autonomous Sailboats. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2018, 54, 98.	0.5	6
27	Amplitude of undulating fin in the vicinity of a wall: Influence of unsteady wall effect on marine propulsion. Ocean Engineering, 2022, 249, 110987.	4.3	6
28	Steady three dimensional gliding motion of an underwater glider. , 2011, , .		5
29	A behavior-based planning strategy for deep-sea hydrothermal plume tracing with autonomous underwater vehicles. , 2014, , .		5
30	Development and Experiments of the Passive Buoyancy Balance System for Sea-Whale 2000 AUV. , 2019, , .		5
31	Variations of mesoscale eddy SST fronts based on an automatic detection method in the northern South China Sea. Acta Oceanologica Sinica, 2020, 39, 82-90.	1.0	5
32	Adaptive Coverage Sampling of Underwater Glider. Jiqiren/Robot, 2012, 34, 566.	0.4	5
33	Influence of Autonomous Sailboat Dual-Wing Sail Interaction on Lift Coefficients. Journal of Ocean University of China, 2022, 21, 656-668.	1.2	5
34	Control system for long-range survey hybrid-driven underwater glider. , 2015, , .		4
35	Lagrangian dynamic modeling of wave-driven unmanned surface vehicle in three dimensions based on the D-H approach. , 2015, , .		4
36	Ocean Circulation in the Challenger Deep Derived From Superâ€Deep Underwater Glider Observation. Geophysical Research Letters, 2021, 48, e2021GL093169.	4.0	4

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37	Tracking moving mesoscale eddies with underwater gliders under autonomous prediction and control. Control Engineering Practice, 2021, 113, 104839.	5.5	4
38	Response of the upper ocean to tropical cyclone in the Northwest Pacific observed by gliders during fall 2018. Acta Oceanologica Sinica, 2021, 40, 103-112.	1.0	4
39	Assigning Multiple AUVs to Form Arrays Under Communication Range Limitations Based on the Element Zero Method. IEEE Systems Journal, 2021, 15, 1664-1673.	4.6	3
40	Modeling and Optimization of Wheel-Propeller-Leg Integrated Driving Mechanism for an Amphibious Robot. , 2009, , .		2
41	Behavior-based control of an autonomous underwater vehicle for adaptive plume mapping. , 2011, , .		2
42	From simulation to validation: Moth-inspired chemical plume tracing with an autonomous underwater vehicle. , 2014, , .		2
43	Distributed Traversability Analysis of Flow Field Under Communication Constraints. IEEE Journal of Oceanic Engineering, 2019, 44, 683-692.	3.8	2
44	A deep learning model for joint prediction of three-dimensional ocean temperature, salinity and flow fields. , 2021, , .		2
45	Variations in Dissolved Oxygen Induced by a Tropical Storm Within an Anticyclone in the Northern South China Sea. Journal of Ocean University of China, 0, , 1.	1.2	2
46	Hydrodynamic Performance Analysis of Fly-Wing Underwater Glider Flaps Based on Overlapped Grid Technology. , 2020, , .		2
47	Towards a general design evaluation tool: The development and validation of a VPP for autonomous sailing monohulls. Applied Ocean Research, 2022, 120, 103053.	4.1	2
48	Optimal distribution of propulsion for an amphibious robot based on wheel-propeller-leg mixed thrusters. , 2010, , .		1
49	Control system design of the Wheel-Paddle-Leg Integration Amphibious Robot. , 2010, , .		1
50	Discrete-time quasi-sliding mode control of underwater vehicles. , 2010, , .		1
51	Near-optimal collecting data strategy based on ordinary Kiriging variance. , 2010, , .		1
52	Study on the motion characteristics in 3D space for a hybrid-driven underwater gilder based on a folding propulsion mechanism. , 2014, , .		1
53	Impact of folding propeller spinning position for the transit efficiency of a hybrid-driven underwater glider. , 2016, , .		1
54	A path planning strategy for marine vehicles based on deep reinforcement learning and data-driven dynamic flow fields prediction. , 2021, , .		1

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55	Kuroshio intrusion into the South China Sea with an anticyclonic eddy: evidence from underwater glider observation. , 2019, 37, 1469.		1
56	Propeller of Amphibious Robot Optimizing Design Based on Integrated Software Platform. , 2009, , .		0
57	Study on the transit efficiency for hybrid driven underwater gliders based on a foldable propeller. , 2014, , .		0
58	Data preprocessing and fitting algorithm based on marine data sampled by multiple underwater gliders. , 2016, , .		0
59	Research on the Trajectory Prediction of a Twin Screw AUV Based on an Accurate Dynamic Model. , 2021, , .		0
60	A novel navigation method for autonomous underwater vehicle in the middle water column. , 2020, , .		0
61	3D Deep Residual Convolutional Neural Network for Underwater Acoustic Source Localization Using Local Acoustic Intensity Field. , 2022, , .		0
62	High-Resolution and Accurate Spatial-Temporal Prediction of Oceanographic Fields via Sparse Observations from Marine Vehicle Network using Deep Learning and Data Assimilation. , 2022, , .		0