

Lei Wan

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

1,318
citations

394421

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395702

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98
all docs

98
docs citations

98
times ranked

1087
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Chopped Carbon Fibers on a Novel Mechanical Enhanced Micro-porous Propellants. Combustion Science and Technology, 2022, 194, 3277-3293.	2.3	1
2	Routing failure prediction and repairing for AUV-assisted underwater acoustic sensor networks in uncertain ocean environments. Applied Acoustics, 2022, 186, 108479.	3.3	9
3	Research on Hot Corrosion Behavior of DZ40M and K452 Superalloys in NaCl Molten Salt. Materials, 2022, 15, 1512.	2.9	3
4	Fault-tolerant trajectory tracking control for unmanned surface vehicle with actuator faults based on a fast fixed-time system. ISA Transactions, 2022, 130, 79-91.	5.7	18
5	Joint CFO, Gridless Channel Estimation and Data Detection for Underwater Acoustic OFDM Systems. IEEE Journal of Oceanic Engineering, 2022, 47, 1215-1230.	3.8	0
6	Simulation of the effect of nonuniform fouling thickness on an axial compressor stage performance. Advances in Mechanical Engineering, 2021, 13, 168781402110304.	1.6	2
7	Double Interpolation-Based Linear Fitting for OMP Channel Estimation in OFDM Systems. IEEE Communications Letters, 2021, 25, 2908-2912.	4.1	5
8	Environment-aware communication channel quality prediction for underwater acoustic transmissions: A machine learning method. Applied Acoustics, 2021, 181, 108128.	3.3	19
9	PB-ACR: Node Payload Balanced Ant Colony Optimal Cooperative Routing for Multi-Hop Underwater Acoustic Sensor Networks. IEEE Access, 2021, 9, 57165-57178.	4.2	12
10	Design and Reliability Analysis of a Tunnel-Detection AUV Based on a Heterogeneous Dual CPU Hot Redundancy System. Electronics (Switzerland), 2021, 10, 22.	3.1	5
11	Fine Doppler scale estimations for an underwater acoustic CP-OFDM system. Signal Processing, 2020, 170, 107439.	3.7	13
12	An Energy Optimization Clustering Scheme for Multi-Hop Underwater Acoustic Cooperative Sensor Networks. IEEE Access, 2020, 8, 89171-89184.	4.2	50
13	Research on autonomous underwater vehicle wall following based on reinforcement learning and multi-sonar weighted round robin mode. International Journal of Advanced Robotic Systems, 2020, 17, 172988142092531.	2.1	3
14	Artificial potential field-based swarm finding of the unmanned surface vehicles in the dynamic ocean environment. International Journal of Advanced Robotic Systems, 2020, 17, 172988142092530.	2.1	12
15	ACOA-AFSA Fusion Dynamic Coded Cooperation Routing for Different Scale Multi-Hop Underwater Acoustic Sensor Networks. IEEE Access, 2020, 8, 186773-186788.	4.2	24
16	Adaptive chattering-free terminal sliding-mode control for full-order nonlinear system with unknown disturbances and model uncertainties. International Journal of Advanced Robotic Systems, 2020, 17, 172988142092529.	2.1	5
17	Fundamentals and Advancements of Magnetic-Field Communication for Underwater Wireless Sensor Networks. IEEE Transactions on Antennas and Propagation, 2020, 68, 7555-7570.	5.1	28
18	A Novel Changing Athlete Body Real-Time Visual Tracking Algorithm Based on Distractor-Aware SiamRPN and HOG-SVM. Electronics (Switzerland), 2020, 9, 378.	3.1	5

#	ARTICLE	IF	CITATIONS
19	Fuzzy Preprocessing and Clustering Analysis Method of Underwater Multiple Targets in Forward Looking Sonar Image for AUV Tracking. International Journal of Fuzzy Systems, 2020, 22, 1261-1276.	4.0	3
20	The acute toxic effects of hexavalent chromium on the liver of marine medaka (<i>Oryzias melastigma</i>). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2020, 231, 108734.	2.6	17
21	Multibody System-Based Adaptive Formation Scheme for Multiple Under-Actuated AUVs. Sensors, 2020, 20, 1943.	3.8	3
22	USV attitude angle optimization method based on gradient descent method and S-plane combined filtering. , 2019, , .		0
23	Selective Dynamic Coded Cooperative Communications for Multi-Hop Underwater Acoustic Sensor Networks. IEEE Access, 2019, 7, 70552-70563.	4.2	13
24	Surface Multi-target Tracking Algorithm Based on Data Association of Information Fusion. , 2019, , .		0
25	An Underwater Image Enhancement Method for Simultaneous Localization and Mapping of Autonomous Underwater Vehicle. , 2019, , .		4
26	Clustering Cloud-Like Model-Based Targets Underwater Tracking for AUVs. Sensors, 2019, 19, 370.	3.8	10
27	Hybrid Strategy-based Coordinate Controller for an Underwater Vehicle Manipulator System Using Nonlinear Disturbance Observer. Robotica, 2019, 37, 1710-1731.	1.9	5
28	Analysis of SNR Metrics for a Typical Underwater Acoustic OFDM System. IEEE Access, 2019, 7, 183565-183579.	4.2	6
29	Further Interpolation Methods for Doppler Scale Estimation in Underwater Acoustic CP-OFDM Systems. , 2019, , .		2
30	Uncalibrated Visual Servoing for Underwater Vehicle Manipulator Systems with an Eye in Hand Configuration Camera. Sensors, 2019, 19, 5469.	3.8	14
31	Low cost, faster detection of cognitive radio through filter banks with bandpass sampling. Physical Communication, 2019, 33, 1-8.	2.1	2
32	Numerical and experimental study on hydrodynamic bulbous bow hull-form optimization for various service conditions due to slow steaming of container vessel. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2019, 233, 1103-1122.	0.5	1
33	A low-complexity orthogonal matching pursuit based channel estimation method for time-varying underwater acoustic OFDM systems. Applied Acoustics, 2019, 148, 246-250.	3.3	21
34	Accurate and Efficient Path Delay Estimation in OMP Based Sparse Channel Estimation for OFDM With Equispaced Pilots. IEEE Wireless Communications Letters, 2019, 8, 117-120.	5.0	32
35	Design of novel sliding-mode controller for high-velocity AUV with consideration of residual dead load. Journal of Central South University, 2018, 25, 121-130.	3.0	4
36	Three-Dimensional Path Following of an Underactuated AUV Based on Fuzzy Backstepping Sliding Mode Control. International Journal of Fuzzy Systems, 2018, 20, 640-649.	4.0	90

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37	Chirp Z-Transform Based Sparse Channel Estimation for Underwater Acoustic OFDM in Clustered Channels. , 2018, , .		4
38	Analysis of Effective Signal to Noise Ratio Performance of a Typical Underwater Acoustic OFDM System. , 2018, , .		0
39	A Depth Control Method of Underactuated AUVs Based on Residual Buoyancy Identification. , 2018, , .		0
40	Study on the Performance Variation of Compressor Under Salt Fog Scale. , 2018, , .		1
41	Adaptive recurrent neural network motion control for observation class remotely operated vehicle manipulator system with modeling uncertainty. Advances in Mechanical Engineering, 2018, 10, 168781401880409.	1.6	6
42	Robust composite neural dynamic surface control for the path following of unmanned marine surface vessels with unknown disturbances. International Journal of Advanced Robotic Systems, 2018, 15, 172988141878664.	2.1	9
43	Heading Control System Design for a Micro-USV Based on an Adaptive Expert S-PID Algorithm. Polish Maritime Research, 2018, 25, 6-13.	1.9	19
44	Design of motion control system of pipeline detection AUV. Journal of Central South University, 2017, 24, 637-646.	3.0	16
45	Design of X-rudder autonomous underwater vehicle's quadruple-rudder allocation with LÃ©vy flight character. International Journal of Advanced Robotic Systems, 2017, 14, 172988141774173.	2.1	10
46	The Application of PSO-AFSA Method in Parameter Optimization for Underactuated Autonomous Underwater Vehicle Control. Mathematical Problems in Engineering, 2017, 2017, 1-14.	1.1	9
47	A Sea-Sky Line Detection Method for Unmanned Surface Vehicles Based on Gradient Saliency. Sensors, 2016, 16, 543.	3.8	33
48	Saliency motivated pulse coupled neural network for underwater laser image segmentation. Journal of Shanghai Jiaotong University (Science), 2016, 21, 289-296.	0.9	4
49	Research on reconstructive fault-tolerant control of an X-rudder AUV. , 2016, , .		2
50	Adaptive OFDMA with partial CSI for downlink underwater acoustic communications. Journal of Communications and Networks, 2016, 18, 387-396.	2.6	39
51	Horizontal-Plane Trajectory-Tracking Control of an Underactuated Unmanned Marine Vehicle in the Presence of Ocean Currents. International Journal of Advanced Robotic Systems, 2016, 13, 83.	2.1	25
52	Path following of an Underactuated AUV Based on Fuzzy Backstepping Sliding Mode Control. International Journal of Advanced Robotic Systems, 2016, 13, 122.	2.1	52
53	Trajectory tracking control for underactuated unmanned surface vehicles with dynamic uncertainties. Journal of Central South University, 2016, 23, 370-378.	3.0	42
54	Further results on multicarrier MFSK based underwater acoustic communications. Physical Communication, 2016, 18, 15-27.	2.1	8

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55	Serret-Frenet frame based on path following control for underactuated unmanned surface vehicles with dynamic uncertainties. <i>Journal of Central South University</i> , 2015, 22, 214-223.	3.0	41
56	Corrections to "Adaptive Modulation and Coding for Underwater Acoustic OFDM" [L. Wan, H. Zhou, X. Xu, Y. Huang, S. Zhou, Z. Shi, and J.-H. Cui, <i>IEEE J. Ocean. Eng.</i> , vol. 40, no. 2, pp. 327-336, Apr. 2015. DOI: 10.1109/JOE.2014.2323365]. <i>IEEE Journal of Oceanic Engineering</i> , 2015, 40, 753-753.	3.8	1
57	Corrections to "OFDM-Modulated Dynamic Coded Cooperation in Underwater Acoustic Channels" [Y. Chen, Z.-H. Wang, L. Wan, H. Zhou, S. Zhou, and X. Xu, <i>IEEE J. Ocean. Eng.</i> , vol. 40, no. 1, pp. 159-168, Jan. 2015. DOI: 10.1109/JOE.2014.2304254. <i>IEEE Journal of Oceanic Engineering</i> , 2015, 40, 752-752.	3.8	0
58	OFDM-Modulated Dynamic Coded Cooperation in Underwater Acoustic Channels. <i>IEEE Journal of Oceanic Engineering</i> , 2015, 40, 159-168.	3.8	52
59	Adaptive Modulation and Coding for Underwater Acoustic OFDM. <i>IEEE Journal of Oceanic Engineering</i> , 2015, 40, 327-336.	3.8	128
60	An Image Segmentation Method of Underwater Targets Based on Active Contour Model. <i>Applied Mechanics and Materials</i> , 2014, 511-512, 457-461.	0.2	2
61	Adaptive AUV formation strategy under acoustic communication conditions. , 2014, , .		1
62	Adaptive S Surface Controller for Hover Control of Underwater Vehicles. <i>Applied Mechanics and Materials</i> , 2014, 563, 224-228.	0.2	0
63	Adaptive OFDMA for downlink underwater acoustic communications. , 2014, , .		10
64	Comparison of sparse recovery algorithms for channel estimation in underwater acoustic OFDM with data-driven sparsity learning. <i>Physical Communication</i> , 2014, 13, 156-167.	2.1	33
65	Remote operated vehicle tether disturbances analysis and target tracking control. , 2014, , .		0
66	Analysis of Underwater OFDM Performance During a 2-Month Deployment in Chesapeake Bay. <i>Marine Technology Society Journal</i> , 2014, 48, 52-64.	0.4	5
67	Wavelet moment invariants extraction of underwater laser vision image. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2013, 18, 712-718.	0.9	0
68	Hierarchical Map Building Based UKF-SLAM Approach for AUV. <i>Applied Mechanics and Materials</i> , 2013, 437, 793-797.	0.2	3
69	Tracking Control of Underactuated Unmanned Surface Vessels Based on the Dynamic Fuzzy Neural Network. <i>Advanced Materials Research</i> , 2012, 562-564, 2188-2196.	0.3	0
70	Parameterizing both path amplitude and delay variations of underwater acoustic channels for block decoding of orthogonal frequency division multiplexing. <i>Journal of the Acoustical Society of America</i> , 2012, 131, 4672-4679.	1.1	49
71	Performance Comparison of Doppler Scale Estimation Methods for Underwater Acoustic OFDM. <i>Journal of Electrical and Computer Engineering</i> , 2012, 2012, 1-11.	0.9	44
72	Object detection and tracking method of AUV based on acoustic vision. <i>China Ocean Engineering</i> , 2012, 26, 623-636.	1.6	12

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73	An anthropomorphic controlled hand prosthesis system. Journal of Zhejiang University: Science C, 2012, 13, 769-780.	0.7	1
74	Model predictive controller design for the dynamic positioning system of a semi-submersible platform. Journal of Marine Science and Application, 2012, 11, 361-367.	1.7	15
75	Dynamic network coded cooperative OFDM for underwater data collection. , 2012, , .		2
76	Joint linear precoding and nonbinary LDPC coding for underwater acoustic OFDM. , 2012, , .		0
77	Vision-based system of AUV for an underwater pipeline tracker. China Ocean Engineering, 2012, 26, 547-554.	1.6	17
78	DSP based receiver implementation for OFDM acoustic modems. Physical Communication, 2012, 5, 22-32.	2.1	81
79	Simultaneous localization and mapping of autonomous underwater vehicle using looking forward sonar. Journal of Shanghai Jiaotong University (Science), 2012, 17, 91-97.	0.9	4
80	SESQP-based semi-submersible platform thrust allocation. , 2011, , .		1
81	Depth-trim mapping control of underwater vehicle with fins. China Ocean Engineering, 2011, 25, 657-667.	1.6	3
82	Design and reliability analysis of DP-3 dynamic positioning control architecture. China Ocean Engineering, 2011, 25, 709-720.	1.6	2
83	Underwater simultaneous localization and mapping based on forward-looking sonar. Journal of Marine Science and Application, 2011, 10, 371-376.	1.7	1
84	Predictive S Control of AUV Based on Model of Support Vector Machine. Advanced Materials Research, 2011, 340, 421-428.	0.3	0
85	AUV modeling and motion control strategy design. Journal of Marine Science and Application, 2010, 9, 379-385.	1.7	4
86	A New Feature Extraction Method for Underwater Targets. Advanced Materials Research, 2010, 171-172, 518-522.	0.3	0
87	DSP implementation of SISO and MIMO OFDM acoustic modems. , 2010, , .		30
88	A fuzzy motion control of AUV based on aperty intelligence. , 2009, , .		5
89	Modeling and simulation of a mini AUV in spatial motion. Journal of Marine Science and Application, 2009, 8, 7-12.	1.7	24
90	Object Track in Underwater Sonar Images. , 2009, , .		2

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91	Fuzzy neural network control of underwater vehicles based on desired state programming. Journal of Marine Science and Application, 2006, 5, 1-4.	1.7	8
92	An integrated GPS/DR navigation system for AUV. Journal of Marine Science and Application, 2006, 5, 8-13.	1.7	6
93	A Design Methodology for Lithium-Ion Battery Management System and its Application to an Autonomous Underwater Vehicle. Advanced Materials Research, 0, 383-390, 7175-7182.	0.3	1
94	The Fault Tolerable Control System Structure of SY-II Remote Operated Vehicle. Advanced Materials Research, 0, 308-310, 1483-1491.	0.3	1
95	Semi-Physical Acoustic Vision Simulation System of Autonomous Underwater Vehicle. Applied Mechanics and Materials, 0, 128-129, 1006-1009.	0.2	0
96	Backstepping Control Method for the Trajectory Tracking for the Underactuated Autonomous Underwater Vehicle. Advanced Materials Research, 0, 798-799, 484-488.	0.3	4
97	A Monocular Vision Measurement Algorithm Based on the Underwater Robot. Applied Mechanics and Materials, 0, 532, 165-169.	0.2	4
98	AUV's Executer Fault-Tolerant Control Based on ADRC. Advanced Materials Research, 0, 1006-1007, 581-585.	0.3	1