

Li Wen

List of Publications by Year in descending order

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69
papers

3,008
citations

147801

31
h-index

175258

52
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all docs

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docs citations

69
times ranked

2433
citing authors

#	ARTICLE	IF	CITATIONS
1	Multimode Grasping Soft Gripper Achieved by Layer Jamming Structure and Tendon-Driven Mechanism. <i>Soft Robotics</i> , 2022, 9, 233-249.	8.0	41
2	Roadmap on soft robotics: multifunctionality, adaptability and growth without borders. <i>Multifunctional Materials</i> , 2022, 5, 032001.	3.7	37
3	A Biomimetic Suction Cup With a V-Notch Structure Inspired by the Net-Winged Midge Larvae. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 3547-3554.	5.1	3
4	A biomimetic remora disc with tunable, reversible adhesion for surface sliding and skimming. <i>Bioinspiration and Biomimetics</i> , 2022, 17, 036001.	2.9	7
5	Bio-inspired physical intelligence for soft robotics. <i>Chinese Science Bulletin</i> , 2022, 67, 959-975.	0.7	5
6	Editorial: Focus on research from China in Bioinspiration & Biomimetics. <i>Bioinspiration and Biomimetics</i> , 2022, , .	2.9	0
7	Aerial-aquatic robots capable of crossing the air-water boundary and hitchhiking on surfaces. <i>Science Robotics</i> , 2022, 7, eabm6695.	17.6	56
8	A novel robotic visual perception framework for underwater operation. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2022, 23, 1602-1619.	2.6	3
9	Joint Anchor-Feature Refinement for Real-Time Accurate Object Detection in Images and Videos. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021, 31, 594-607.	8.3	36
10	A soft manipulator for efficient delicate grasping in shallow water: Modeling, control, and real-world experiments. <i>International Journal of Robotics Research</i> , 2021, 40, 449-469.	8.5	118
11	A Multimodal, Enveloping Soft Gripper: Shape Conformation, Bioinspired Adhesion, and Expansion-Driven Suction. <i>IEEE Transactions on Robotics</i> , 2021, 37, 350-362.	10.3	71
12	A Tapered Soft Robotic Oropharyngeal Swab for Throat Testing: A New Way to Collect Sputa Samples. <i>IEEE Robotics and Automation Magazine</i> , 2021, 28, 90-100.	2.0	17
13	Editorial: Integrated Multi-modal and Sensorimotor Coordination for Enhanced Human-Robot Interaction. <i>Frontiers in Neurorobotics</i> , 2021, 15, 673659.	2.8	0
14	Soft Origami Gripper with Variable Effective Length. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000251.	6.1	27
15	A biomimetic fish finlet with a liquid metal soft sensor for proprioception and underwater sensing. <i>Bioinspiration and Biomimetics</i> , 2021, 16, 065007.	2.9	5
16	Introduction to the focused section on flexible mechatronics for robotics. <i>International Journal of Intelligent Robotics and Applications</i> , 2021, 5, 283-286.	2.8	2
17	Prediction model-based learning adaptive control for underwater grasping of a soft manipulator. <i>International Journal of Intelligent Robotics and Applications</i> , 2021, 5, 337-353.	2.8	3
18	Legless soft robots capable of rapid, continuous, and steered jumping. <i>Nature Communications</i> , 2021, 12, 7028.	12.8	38

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19	A Three-Fingered Force Feedback Glove Using Fiber-Reinforced Soft Bending Actuators. IEEE Transactions on Industrial Electronics, 2020, 67, 7681-7690.	7.9	32
20	A soft gripper with programmable effective length, tactile and curvature sensory feedback. Smart Materials and Structures, 2020, 29, 035006.	3.5	46
21	A fluid-structure interaction solver for the study on a passively deformed fish fin with non-uniformly distributed stiffness. Journal of Fluids and Structures, 2020, 92, 102778.	3.4	30
22	Underwater Mobile Manipulation: A Soft Arm on a Benthic Legged Robot. IEEE Robotics and Automation Magazine, 2020, 27, 12-26.	2.0	32
23	Tensegrity metamaterials for soft robotics. Science Robotics, 2020, 5, .	17.6	34
24	A Proprioceptive Soft Tentacle Gripper Based on Crosswise Stretchable Sensors. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1841-1850.	5.8	34
25	Octopus Arm-Inspired Tapered Soft Actuators with Suckers for Improved Grasping. Soft Robotics, 2020, 7, 639-648.	8.0	171
26	Vertical Fibrous Morphology and Structure-Function Relationship in Natural and Biomimetic Suction-Based Adhesion Discs. Matter, 2020, 2, 1207-1221.	10.0	26
27	A 1 mm-Thick Miniatured Mobile Soft Robot With Mechanosensation and Multimodal Locomotion. IEEE Robotics and Automation Letters, 2020, 5, 3291-3298.	5.1	19
28	Linear Acceleration of an Undulatory Robotic Fish with Dynamic Morphing Median Fin under the Instantaneous Self-propelled Condition. Journal of Bionic Engineering, 2020, 17, 241-253.	5.0	7
29	Detachment of the remora suckerfish disc: kinematics and a bio-inspired robotic model. Bioinspiration and Biomimetics, 2020, 15, 056018.	2.9	16
30	Complex multiphase organohydrogels with programmable mechanics toward adaptive soft-matter machines. Science Advances, 2020, 6, eaax1464.	10.3	139
31	A bio-robotic remora disc with attachment and detachment capabilities for reversible underwater hitchhiking. , 2019, , .		4
32	A Soft Actuator with Tunable Mechanical Configurations for Object Grasping Based on Sensory Feedback. , 2019, , .		5
33	An Opposite-Bending-and-Extension Soft Robotic Manipulator for Delicate Grasping in Shallow Water. Frontiers in Robotics and AI, 2019, 6, 26.	3.2	41
34	Towards Real-Time Advancement of Underwater Visual Quality With GAN. IEEE Transactions on Industrial Electronics, 2019, 66, 9350-9359.	7.9	85
35	Understanding Fish Linear Acceleration Using an Undulatory Biorobotic Model with Soft Fluidic Elastomer Actuated Morphing Median Fins. Soft Robotics, 2018, 5, 375-388.	8.0	57
36	A Bio-inspired Soft Robotic Arm: Kinematic Modeling and Hydrodynamic Experiments. Journal of Bionic Engineering, 2018, 15, 204-219.	5.0	45

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37	A Soft Bionic Gripper with Variable Effective Length. <i>Journal of Bionic Engineering</i> , 2018, 15, 220-235.	5.0	97
38	A eutectic-alloy-infused soft actuator with sensing, tunable degrees of freedom, and stiffness properties. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 024004.	2.6	77
39	A Variable Degree-of-Freedom and Self-Sensing Soft Bending Actuator Based on Conductive Liquid Metal and Thermoplastic Polymer Composites. , 2018, , .		3
40	A multi-body dynamics based numerical modelling tool for solving aquatic biomimetic problems. <i>Bioinspiration and Biomimetics</i> , 2018, 13, 056001.	2.9	24
41	A biorobotic adhesive disc for underwater hitchhiking inspired by the remora suckerfish. <i>Science Robotics</i> , 2017, 2, .	17.6	200
42	A Programmable Mechanical Freedom and Variable Stiffness Soft Actuator with Low Melting Point Alloy. <i>Lecture Notes in Computer Science</i> , 2017, , 151-161.	1.3	14
43	A survey on fabrication, control, and hydrodynamic function of biomimetic robotic fish. <i>Science China Technological Sciences</i> , 2017, 60, 1365-1380.	4.0	29
44	Modeling and experiments of a soft robotic gripper in amphibious environments. <i>International Journal of Advanced Robotic Systems</i> , 2017, 14, 172988141770714.	2.1	87
45	A Kalman filter based force-feedback control system for hydrodynamic investigation of unsteady aquatic propulsion. , 2017, , .		3
46	A Real-time and Unsupervised Advancement Scheme for Underwater Machine Vision. , 2017, , .		3
47	Quantitative hydrodynamic investigation of fish caudal fin cupping motion using a bio-robotic model. , 2016, , .		3
48	Design, fabrication and kinematic modeling of a 3D-motion soft robotic arm. , 2016, , .		20
49	Universal soft pneumatic robotic gripper with variable effective length. , 2016, , .		121
50	Fiber-reinforced soft robotic anthropomorphic finger. , 2016, , .		6
51	Investigation of Fish Caudal Fin Locomotion Using a Bio-Inspired Robotic Model. <i>International Journal of Advanced Robotic Systems</i> , 2016, 13, 87.	2.1	17
52	Hydrodynamics of a robotic fish tail: effects of the caudal peduncle, fin ray motions and the flow speed. <i>Bioinspiration and Biomimetics</i> , 2016, 11, 016008.	2.9	43
53	Structure, biomimetics, and fluid dynamics of fish skin surfaces. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	73
54	Hydrodynamic function of biomimetic shark skin: effect of denticle pattern and spacing. <i>Bioinspiration and Biomimetics</i> , 2015, 10, 066010.	2.9	68

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55	Hydrodynamic function of a robotic fish caudal fin: Effect of kinematics and flow speed. , 2015, , .		0
56	Hydrodynamics of C-Start Escape Responses of Fish as Studied with Simple Physical Models. Integrative and Comparative Biology, 2015, 55, 728-739.	2.0	43
57	Biomimetic shark skin: design, fabrication and hydrodynamic function. Journal of Experimental Biology, 2014, 217, 1656-1666.	1.7	340
58	A Stiffness-Adjusting Method to Improve Thrust Efficiency of a Two-Joint Robotic Fish. Advances in Mechanical Engineering, 2014, 6, 537905.	1.6	3
59	Hydrodynamic performance of a biomimetic robotic swimmer actuated by ionic polymer-metal composite. Smart Materials and Structures, 2013, 22, 075035.	3.5	67
60	A novel method for investigating the kinematic effect on the hydrodynamics of robotic fish. , 2013, , .		1
61	Quantitative Thrust Efficiency of a Self-Propulsive Robotic Fish: Experimental Method and Hydrodynamic Investigation. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1027-1038.	5.8	96
62	Understanding undulatory locomotion in fishes using an inertia-compensated flapping foil robotic device. Bioinspiration and Biomimetics, 2013, 8, 046013.	2.9	54
63	Modelling and Fuzzy Control of an Efficient Swimming Ionic Polymer-Metal Composite Actuated Robot. International Journal of Advanced Robotic Systems, 2013, 10, 350.	2.1	21
64	Hybrid undulatory kinematics of a robotic Mackerel (Scomber scombrus): Theoretical modeling and experimental investigation. Science China Technological Sciences, 2012, 55, 2941-2952.	4.0	18
65	Novel Method for the Modeling and Control Investigation of Efficient Swimming for Robotic Fish. IEEE Transactions on Industrial Electronics, 2012, 59, 3176-3188.	7.9	78
66	A novel method based on a force-feedback technique for the hydrodynamic investigation of kinematic effects on robotic fish. , 2011, , .		5
67	Development of a two-joint robotic fish for real-world exploration. Journal of Field Robotics, 2011, 28, 70-79.	6.0	102
68	A novel method for simultaneous measurement of internal and external hydrodynamic force of self-propelled robotic fish. , 2010, , .		0
69	Conceptual design and recovery stroke mode of a mechanical pectoral fin. , 2007, , .		0