

He Xu

List of Publications by Year in descending order

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168
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#	ARTICLE	IF	CITATIONS
1	A Novel Soft Robotic Hand Design With Human-Inspired Soft Palm: Achieving a Great Diversity of Grasps. <i>IEEE Robotics and Automation Magazine</i> , 2021, 28, 37-49.	2.0	35
2	A Bidirectional Soft Biomimetic Hand Driven by Water Hydraulic for Dexterous Underwater Grasping. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 2186-2193.	5.1	16
3	A Hybrid Motion Estimation for Video Stabilization Based on an IMU Sensor. <i>Sensors</i> , 2018, 18, 2708.	3.8	15
4	A review of biomimetic research for erosion wear resistance. <i>Bio-Design and Manufacturing</i> , 2020, 3, 331-347.	7.7	14
5	PHP-based collaborative education and management system for water hydraulic laboratory. <i>Computer Applications in Engineering Education</i> , 2018, 26, 259-271.	3.4	12
6	Design of a Bio-Inspired Anti-Erosion Structure for a Water Hydraulic Valve Core: An Experimental Study. <i>Biomimetics</i> , 2019, 4, 63.	3.3	12
7	Visual Contact Angle Estimation and Traction Control for Mobile Robot in Rough-Terrain. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2014, 74, 985-997.	3.4	11
8	Material Analysis and Molecular Dynamics Simulation for Cavitation Erosion and Corrosion Suppression in Water Hydraulic Valves. <i>Materials</i> , 2020, 13, 453.	2.9	10
9	Analytical modeling and multi-objective optimization (MOO) of slippage for wheeled mobile robot (WMR) in rough terrain. <i>Journal of Central South University</i> , 2012, 19, 2458-2467.	3.0	9
10	Modeling and multiobjective optimization of traction performance for autonomous wheeled mobile robot in rough terrain. <i>Journal of Zhejiang University: Science C</i> , 2013, 14, 11-29.	0.7	9
11	Modeling and Experiments on the Swallowing and Disgorging Characteristics of an Underwater Continuum Manipulator. , 2020, , .		8
12	Data-driven fault diagnosis of control valve with missing data based on modeling and deep residual shrinkage network. <i>Journal of Zhejiang University: Science A</i> , 2022, 23, 303-313.	2.4	8
13	Construction and evaluation of PHP-based management and training system for electrical power laboratory. <i>Computer Applications in Engineering Education</i> , 2016, 24, 371-381.	3.4	7
14	Biomimetic fiber reinforced dual-mode actuator for soft robots. <i>Sensors and Actuators A: Physical</i> , 2022, 344, 113761.	4.1	7
15	A Novel One-Camera-Five-Mirror Three-Dimensional Imaging Method for Reconstructing the Cavitation Bubble Cluster in a Water Hydraulic Valve. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1783.	2.5	6
16	Modeling and optimization of novel ball valve with high adjustable ratio. <i>International Journal of Pressure Vessels and Piping</i> , 2021, 190, 104299.	2.6	6
17	Arrangement optimization of a novel three dimensional multiphase flow imaging device employing modified harmony search algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 100, 104185.	8.1	6
18	Construction and evaluation of Flash Media Server based collaborative virtual hydraulic circuits/equipments. <i>Computer Applications in Engineering Education</i> , 2012, 20, 579-593.	3.4	5

#	ARTICLE	IF	CITATIONS
19	Kinematic modeling and solution of rigid-flexible and variable-diameter underwater continuous manipulator with load. <i>Robotica</i> , 2022, 40, 1020-1035.	1.9	5
20	Robust Control of Neutral System with Time-Delay for Dynamic Positioning Ships. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-11.	1.1	4
21	Detail-semantic guide network based on spatial attention for surface defect detection with fewer samples. <i>Applied Intelligence</i> , 2023, 53, 7022-7040.	5.3	4
22	Sparse Point Cloud Generation Based on Turntable 2D Lidar and Point Cloud Assembly in Augmented Reality Environment. , 2021, , .		3
23	Modeling, Analysis, and Experimental Results of the Skeleton-Embedded Fiber-Guided Water Hydraulic Actuator. , 2021, , .		3
24	Bionic Water Hydraulic System of Soft Robot Control Inspired by Spider Limbs. , 2021, , .		3
25	Trade-offs design of mobile robot based on Multi-Objective Optimization with respect to Terramechanics. , 2009, , .		2
26	Fish-eye image of hemi-cylinder unwrapping plane based on a flexible technique. , 2015, , .		2
27	Development of Hemi-Cylinder Plane for Panorama View in Around View Monitor Applications. , 2016, , .		2
28	Continuous mobility of mobile robots with a special ability for overcoming driving failure on rough terrain. <i>Robotica</i> , 2017, 35, 2076-2096.	1.9	2
29	Sensitive Monitoring Particles Conveying in Water Hydraulic System via a Facile Molding Conductive Hydrogel. <i>IEEE Sensors Journal</i> , 2021, 21, 10506-10513.	4.7	2
30	Structure Optimal Design of Pneumatic 6-DOF Parallel Robot Based on Natural Frequency. <i>Key Engineering Materials</i> , 0, 450, 349-352.	0.4	1
31	Prototype optimization of reconfigurable mobile robots based on a modified Harmony Search method. <i>Transactions of the Institute of Measurement and Control</i> , 2012, 34, 334-360.	1.7	1
32	A Novel Automatic Extraction Approach of Pollutants for Mobile Camera. <i>Applied Mechanics and Materials</i> , 2014, 494-495, 1328-1331.	0.2	1
33	The application of orthogonal frequency division multiplexing narrow-band carrier in communication of electric control valve. , 2016, , .		1
34	Design and experimental test of the contractive and elongate water hydraulic flexible manipulators. , 2017, , .		1
35	Modeling, Analysis, and Function Extension of the McKibben Hydraulic Artificial Muscles. , 2020, , .		1
36	Configuration Design of a Novel Mobile Robot with 5 th Wheel. <i>Key Engineering Materials</i> , 2009, 419-420, 605-608.	0.4	0

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37	Sliding Mode Control with Fuzzy Tuning to Pneumatic Driving 6-DOF Parallel Robot. Key Engineering Materials, 2010, 450, 548-551.	0.4	0
38	Vibration-Based Terrain Identification for Planetary Exploration Robots Using Support Vector Machine. Applied Mechanics and Materials, 2012, 220-223, 1171-1174.	0.2	0
39	Longitudinal Associated Stability Analysis of Mobile Robot in Rough Terrain. Key Engineering Materials, 2013, 572, 632-635.	0.4	0
40	Study on the Design of Particle Removal System for Autonomous Robotic Vehicle. Advanced Materials Research, 2013, 694-697, 1646-1651.	0.3	0
41	Radiation Characteristics of Heat Sink in Propulsive Wheel of Mobile Robots. Applied Mechanics and Materials, 2014, 494-495, 1294-1297.	0.2	0
42	Design of Bionic Prototype for Autonomous Mobile Robot Visual System Cleaning Apparatus. Journal of Biomimetics, Biomaterials and Biomedical Engineering, 2016, 27, 1-23.	0.5	0
43	Mixed phase activated artificial muscle. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2018, 12, JAMDSM0010-JAMDSM0010.	0.7	0
44	Development of Visualized Water Hydraulic Experiment System for Studying the Bubble Flow Pattern Inside Valve. , 2018, , .		0
45	The Method of Mobile Robot Visual Contaminant Detection Based on Five-frame Difference and Visual Background Extractor. , 2019, , .		0
46	Production of Data Set Based on Adjustable Rotary Table and Part Identification Based on Deep Learning. , 2021, , .		0
47	Enhancement of the measurement stability of conductive ink based sensor by topology optimization. , 2021, , .		0
48	A Flexible Strain Sensor for Detecting Pressure based on Metamaterial Structure. , 2021, , .		0
49	A Method for Anti-Erosion of Water Hydraulic Valve Plug Based on Variable Stiffness and Energy Mitigating Mechanism. , 2019, , .		0
50	Study on an Underwater Flexible Manipulator Based on Hydraulic Drive. , 2020, , .		0
51	Underwater Flexible Manipulator Double-Loop Feedback Control Based on Built-in Binocular Vision and Displacement Sensor. , 2020, , .		0
52	A Kinematic-Based Unmarked Augmented Reality Method for Large Scene Industrial Workshops. , 2020, , .		0
53	Double-Input Multi-Output Pressure Control System Based on Addressable Pressure Component. , 2021, , .		0
54	Study on Intelligent Pressure Reducing Valve and Leakage Diagnosis. , 2022, , .		0