

# Jie Zhao

## List of Publications by Year in descending order

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216  
papers

1,950  
citations

361045

20  
h-index

414034

32  
g-index

216  
all docs

216  
docs citations

216  
times ranked

1808  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired Aquatic Microrobot Capable of Walking on Water Surface Like a Water Strider. ACS Applied Materials & Interfaces, 2011, 3, 2630-2636.	4.0	132
2	Two Time-Scale Tracking Control of Nonholonomic Wheeled Mobile Robots. IEEE Transactions on Control Systems Technology, 2016, 24, 2059-2069.	3.2	131
3	Arthropodâ€Metamerismâ€Inspired Resonant Piezoelectric Millirobot. Advanced Intelligent Systems, 2021, 3, 2100015.	3.3	64
4	Design and evaluation of a 7-DOF cable-driven upper limb exoskeleton. Journal of Mechanical Science and Technology, 2018, 32, 855-864.	0.7	60
5	A New Spiral-Type Inflatable Pure Torsional Soft Actuator. Soft Robotics, 2018, 5, 527-540.	4.6	51
6	Development of a Bionic Hexapod Robot for Walking on Unstructured Terrain. Journal of Bionic Engineering, 2014, 11, 176-187.	2.7	46
7	Biomimetic Design and Optimal Swing of a Hexapod Robot Leg. Journal of Bionic Engineering, 2014, 11, 26-35.	2.7	37
8	Efficient Fully Convolution Neural Network for Generating Pixel Wise Robotic Grasps With High Resolution Images. , 2019, , .		34
9	Dynamic Parameter Identification for a Manipulator with Joint Torque Sensors Based on an Improved Experimental Design. Sensors, 2019, 19, 2248.	2.1	33
10	Feature Sensing and Robotic Grasping of Objects with Uncertain Information: A Review. Sensors, 2020, 20, 3707.	2.1	30
11	Humanâ€machine force interaction design and control for the HIT load-carrying exoskeleton. Advances in Mechanical Engineering, 2016, 8, 168781401664506.	0.8	29
12	A Human-Inspired Soft Finger with Dual-Mode Morphing Enabled by Variable Stiffness Mechanism. Soft Robotics, 2022, 9, 399-411.	4.6	28
13	Design of a 6-DOF upper limb rehabilitation exoskeleton with parallel actuated joints. Bio-Medical Materials and Engineering, 2014, 24, 2527-2535.	0.4	26
14	Design of a highâ€bandwidth tripod scanner for high speed atomic force microscopy. Scanning, 2016, 38, 889-900.	0.7	25
15	A Bioinspired Soft Swallowing Gripper for Universal Adaptable Grasping. Soft Robotics, 2022, 9, 36-56.	4.6	25
16	Dynamic Identification of the KUKA LBR iiwa Robot With Retrieval of Physical Parameters Using Global Optimization. IEEE Access, 2020, 8, 108018-108031.	2.6	25
17	Development of a lower limb rehabilitation exoskeleton based on real-time gait detection and gait tracking. Advances in Mechanical Engineering, 2016, 8, 168781401562798.	0.8	24
18	Probing the Morphology and Evolving Dynamics of 3D Printed Nanostructures Using High-Speed Atomic Force Microscopy. ACS Applied Materials & Interfaces, 2017, 9, 24456-24461.	4.0	23

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19	A Novel Weight-Bearing Lower Limb Exoskeleton Based on Motion Intention Prediction and Locomotion State Identification. IEEE Access, 2019, 7, 37620-37638.	2.6	23
20	Automatic Generation of Locomotion Patterns for Soft Modular Reconfigurable Robots. Applied Sciences (Switzerland), 2020, 10, 294.	1.3	22
21	Integrated Locomotion and Deformation of a Magnetic Soft Robot: Modeling, Control, and Experiments. IEEE Transactions on Industrial Electronics, 2021, 68, 5078-5087.	5.2	21
22	A Force-Sensing System on Legs for Biomimetic Hexapod Robots Interacting with Unstructured Terrain. Sensors, 2017, 17, 1514.	2.1	20
23	Design and evaluation of a parallel-series elastic actuator for lower limb exoskeletons. , 2014, , .		19
24	Biomechanical modeling and load-carrying simulation of lower limb exoskeleton. Bio-Medical Materials and Engineering, 2015, 26, S729-S738.	0.4	19
25	A Simplified Approach to Realize Cellular Automata for UBot Modular Self-Reconfigurable Robots. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 79, 37-54.	2.0	19
26	Flight Dynamics Modeling and Control of a Novel Catapult Launched Tandem-Wing Micro Aerial Vehicle With Variable Sweep. IEEE Access, 2018, 6, 42294-42308.	2.6	19
27	Design of a wearable cable-driven upper limb exoskeleton based on epicyclic gear trains structure. Technology and Health Care, 2017, 25, 3-11.	0.5	18
28	PALExo: A Parallel Actuated Lower Limb Exoskeleton for High-Load Carrying. IEEE Access, 2020, 8, 67250-67262.	2.6	18
29	A three-chambered soft actuator module with omnidirectional bending motion. , 2016, , .		17
30	Aerodynamic characteristics of a novel catapult launched morphing tandem-wing unmanned aerial vehicle. Advances in Mechanical Engineering, 2017, 9, 168781401769229.	0.8	17
31	Design of a quasi-passive 3 DOFs ankle-foot wearable rehabilitation orthosis. Bio-Medical Materials and Engineering, 2015, 26, S647-S654.	0.4	16
32	Improving Kinematic Flexibility and Walking Performance of a Six-legged Robot by Rationally Designing Leg Morphology. Journal of Bionic Engineering, 2019, 16, 608-620.	2.7	16
33	Bioinspired Multilegged Piezoelectric Robot: The Design Philosophy Aiming at High-Performance Micromanipulation. Advanced Intelligent Systems, 2022, 4, .	3.3	16
34	Improved Artificial Moment Method for Decentralized Local Path Planning of Multirobots. IEEE Transactions on Control Systems Technology, 2015, 23, 2383-2390.	3.2	15
35	Position control of a single pneumatic artificial muscle with hysteresis compensation based on modified Prandtl-Ishlinskii model. Bio-Medical Materials and Engineering, 2017, 28, 131-140.	0.4	15
36	A distributed and parallel control mechanism for self-reconfiguration of modular robots using L-systems and cellular automata. Journal of Parallel and Distributed Computing, 2017, 102, 80-90.	2.7	15

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37	Inverse kinematic analysis and trajectory planning of a modular upper limb rehabilitation exoskeleton. <i>Technology and Health Care</i> , 2019, 27, 123-132.	0.5	15
38	Towards the Exploitation of Physical Compliance in Segmented and Electrically Actuated Robotic Legs: A Review Focused on Elastic Mechanisms. <i>Sensors</i> , 2019, 19, 5351.	2.1	15
39	One Nonlinear PID Control to Improve the Control Performance of a Manipulator Actuated by a Pneumatic Muscle Actuator. <i>Advances in Mechanical Engineering</i> , 2014, 6, 172782.	0.8	14
40	Serpentoid polygonal rolling for chain-type modular robots: A study of modeling, pattern switching and application. <i>Robotics and Computer-Integrated Manufacturing</i> , 2016, 39, 56-67.	6.1	14
41	Optimal design of a Stewart platform using the global transmission index under determinate constraint of workspace. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401772088.	0.8	14
42	Physician-Friendly Tool Center Point Calibration Method for Robot-Assisted Puncture Surgery. <i>Sensors</i> , 2021, 21, 366.	2.1	14
43	Design and implementation of UBot: A modular Self-Reconfigurable Robot. , 2013, , .		13
44	Chaotic CPG based locomotion control for modular self-reconfigurable robot. <i>Journal of Bionic Engineering</i> , 2016, 13, 30-38.	2.7	13
45	Flexible Driving Mechanism Inspired Water Strider Robot Walking on Water Surface. <i>IEEE Access</i> , 2020, 8, 89643-89654.	2.6	13
46	Generation of closed-form inverse kinematics for reconfigurable robots. <i>Frontiers of Mechanical Engineering in China</i> , 2008, 3, 91-96.	0.4	12
47	Position Control of a Pneumatic Muscle Actuator Using RBF Neural Network Tuned PID Controller. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-16.	0.6	12
48	A Capacitive and Piezoresistive Hybrid Sensor for Long-Distance Proximity and Wide-Range Force Detection in Human-Robot Collaboration. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	12
49	A water walking robot inspired by water strider. , 2012, , .		11
50	Vertical force acting on partly submerged spindly cylinders. <i>AIP Advances</i> , 2014, 4, 047118.	0.6	11
51	Structural design and dynamic analysis of biologically inspired water-jumping robot. , 2014, , .		11
52	Automatic Locomotion Generation for a UBot Modular Robot – Towards Both High-Speed and Multiple Patterns. <i>International Journal of Advanced Robotic Systems</i> , 2015, 12, 32.	1.3	11
53	Parametric Gait Online Generation of a Lower-limb Exoskeleton for Individuals with Paraplegia. <i>Journal of Bionic Engineering</i> , 2018, 15, 941-949.	2.7	11
54	A Task-Learning Strategy for Robotic Assembly Tasks from Human Demonstrations. <i>Sensors</i> , 2020, 20, 5505.	2.1	11

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55	A Gas-actuated Ribbon-Hybrid Actuated Soft Finger with Active Variable Stiffness. <i>Soft Robotics</i> , 2022, 9, 250-265.	4.6	11
56	Continuous Estimation of Elbow Joint Angle by Multiple Features of Surface Electromyographic Using Grey Features Weighted Support Vector Machine. <i>Journal of Medical Imaging and Health Informatics</i> , 2017, 7, 574-583.	0.2	11
57	Biomimetic design and biomechanical simulation of a 15-DOF lower extremity exoskeleton. , 2013, , .		10
58	Ultrafast Growth of Uniform Multi-Layer Graphene Films Directly on Silicon Dioxide Substrates. <i>Nanomaterials</i> , 2019, 9, 964.	1.9	10
59	A Method for Mechanism Analysis of Frog Swimming Based on Motion Observation Experiments. <i>Advances in Mechanical Engineering</i> , 2014, 6, 403057.	0.8	9
60	Design of a wearable upper-limb exoskeleton for activities assistance of daily living. , 2017, , .		9
61	A Mechatronics-Embedded Pneumatic Soft Modular Robot Powered via Single Air Tube. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2260.	1.3	9
62	Research on the Posture Control Method of Hexapod Robot for Rugged Terrain. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6725.	1.3	9
63	A new robot collision detection method: A modified nonlinear disturbance observer based-on neural networks. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020, 38, 175-186.	0.8	9
64	Structural parameter study of dual transducers-type ultrasonic levitation-based transportation system. <i>Smart Materials and Structures</i> , 2021, 30, 045009.	1.8	9
65	A Wide-Range Stiffness-Tunable Soft Actuator Inspired by Deep-Sea Glass Sponges. <i>Soft Robotics</i> , 2022, 9, 625-637.	4.6	9
66	Parameter estimation and object gripping based on fingertip force/torque sensors. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 179, 109479.	2.5	9
67	A Capacitive and Piezoresistive Hybrid Sensor for Long-Distance Proximity and Wide-Range Force Detection in Human-Robot Collaboration. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	9
68	Design of a prototype of an adaptive soft robot based on ferrofluid. , 2015, , .		8
69	A miniature surface tension-driven robot mimicking the water-surface locomotion of water strider. , 2015, , .		8
70	Position control of a bio-inspired semi-active joint with direct inverse hysteresis modeling and compensation. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401667722.	0.8	8
71	A Synthetic Inverse Kinematic Algorithm for 7-DOF Redundant Manipulator. , 2018, , .		8
72	Frog-inspired jumping robot actuated by pneumatic muscle actuators. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401878230.	0.8	8

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73	Human Intention Understanding From Multiple Demonstrations and Behavior Generalization in Dynamic Movement Primitives Framework. IEEE Access, 2019, 7, 36186-36194.	2.6	8
74	Whole-Body Motion Planning for a Six-Legged Robot Walking on Rugged Terrain. Applied Sciences (Switzerland), 2019, 9, 5284.	1.3	8
75	Cooperative Multi-Robot Map-building based on Genetic Algorithms. , 2006, , .		7
76	A continuous jumping robot on water mimicking water striders. , 2016, , .		7
77	Nonlinear Modeling and Docking Tests of a Soft Modular Robot. IEEE Access, 2019, 7, 11328-11337.	2.6	7
78	A New Method For Fiber Bragg Grating Based Needle Shape Sensing Calibration. , 2019, , .		7
79	Maxwell-Model-Based Compliance Control for Human-Robot Friendly Interaction. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 118-131.	2.6	7
80	Improved dynamic parameter identification method relying on proprioception for manipulators. Nonlinear Dynamics, 2021, 105, 1373-1388.	2.7	7
81	Status Identification and Object In-Hand Reorientation Using Force/Torque Sensors. IEEE Sensors Journal, 2021, 21, 20694-20703.	2.4	7
82	Calibration Method Based on Models and Least-Squares Support Vector Regression Enhancing Robot Position Accuracy. IEEE Access, 2021, 9, 136060-136070.	2.6	7
83	An Enveloping Soft Gripper With High-Load Carrying Capacity: Design, Characterization and Application. IEEE Robotics and Automation Letters, 2022, 7, 373-380.	3.3	7
84	Medical Robotics: Opportunities in China. Annual Review of Control, Robotics, and Autonomous Systems, 2022, 5, 361-383.	7.5	7
85	Design of a coordinated control strategy for multi-mobile-manipulator cooperative teleoperation system. , 2012, , .		6
86	Analysis of period doubling bifurcation and chaos mirror of biped passive dynamic robot gait. Science Bulletin, 2012, 57, 1743-1750.	1.7	6
87	A Decentralized Method Using Artificial Moments for Multi-Robot Path-Planning. International Journal of Advanced Robotic Systems, 2013, 10, 24.	1.3	6
88	SIFT algorithm-based 3D pose estimation of femur. Bio-Medical Materials and Engineering, 2014, 24, 2847-2855.	0.4	6
89	Study of bifurcation and chaos in DC-DC boost converter using discrete-time map. , 2014, , .		6
90	Static Modeling for Commercial Braided Pneumatic Muscle Actuators. Advances in Mechanical Engineering, 2014, 6, 425217.	0.8	6

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91	Human-Like Walking with Heel Off and Toe Support for Biped Robot. Applied Sciences (Switzerland), 2017, 7, 499.	1.3	6
92	Design and Fabrication of a Variable Stiffness Soft Pneumatic Humanoid Finger Actuator. , 2018, , .		6
93	Trajectory Planning of an Intermittent Jumping Quadruped Robot with Variable Redundant and Underactuated Joints. Complexity, 2018, 2018, 1-14.	0.9	6
94	A membrane computing framework for self-reconfigurable robots. Natural Computing, 2019, 18, 635-646.	1.8	6
95	A Novel Virtual Sensor for Estimating Robot Joint Total Friction Based on Total Momentum. Applied Sciences (Switzerland), 2019, 9, 3344.	1.3	6
96	A Framework for Human-Robot-Human Physical Interaction Based on N-Player Game Theory. Sensors, 2020, 20, 5005.	2.1	6
97	Tripping Avoidance Lower Extremity Exoskeleton Based on Virtual Potential Field for Elderly People. Sensors, 2020, 20, 5844.	2.1	6
98	Modular Robotic Limbs for Astronaut Activities Assistance. Sensors, 2021, 21, 6305.	2.1	6
99	Task-oriented Hierarchical Control of Modular Soft Robots with External Vision Guidance. Journal of Bionic Engineering, 2022, 19, 657-667.	2.7	6
100	RTSRAs: A Series-Parallel-Reconfigurable Tendon-Driven Supernumerary Robotic Arms. IEEE Robotics and Automation Letters, 2022, 7, 7407-7414.	3.3	6
101	Dynamics and a convenient control design approach for a unicycle robot. , 2010, , .		5
102	Teleoperation System of Internet-Based Multi-Operator Multi-Mobile-Manipulator. , 2010, , .		5
103	Analysis and Implementation of Multiple Bionic Motion Patterns for Caterpillar Robot Driven by Sinusoidal Oscillator. Advances in Mechanical Engineering, 2014, 6, 259463.	0.8	5
104	A Simplified Inverse Dynamics Modelling Method for a Novel Rehabilitation Exoskeleton with Parallel Joints and Its Application to Trajectory Tracking. Mathematical Problems in Engineering, 2019, 2019, 1-10.	0.6	5
105	A Variable Stiffness Actuator Based on Second-order Lever Mechanism and Its Manipulator Integration. , 2021, , .		5
106	A Rapid Water Sliding Robot Optimized by Bionic Motion Trajectory. IEEE Robotics and Automation Letters, 2022, 7, 2463-2470.	3.3	5
107	Mechanical Compliance and Dynamic Load Isolation Design of Lower Limb Exoskeleton for Locomotion Assistance. IEEE/ASME Transactions on Mechatronics, 2022, 27, 5392-5402.	3.7	5
108	A substructure based motion planning method for a modular self-reconfigurable robot. , 2004, , .		4

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109	Real-time Image Processing System Based on Multi-core Processor. , 2009, , .		4
110	Application of cycle variable pitch propeller to morphing unmanned aerial vehicles. , 2015, , .		4
111	A bio-inspired knee joint for biped robots. , 2016, , .		4
112	Research of the low impact space docking mechanism based on impedance control strategy. , 2016, , .		4
113	AN ANGLE-EMG BIOMECHANICAL MODEL OF THE HUMAN ELBOW JOINT. Journal of Mechanics in Medicine and Biology, 2016, 16, 1650078.	0.3	4
114	ADAPTIVE MOTION PLANNING FOR HITCR-II HEXAPOD ROBOT. Journal of Mechanics in Medicine and Biology, 2017, 17, 1740040.	0.3	4
115	Modeling the fractal development of modular robots. Advances in Mechanical Engineering, 2017, 9, 168781401769569.	0.8	4
116	Concept and design of a lightweight biped robot for walking on rough terrain. , 2017, , .		4
117	Design and control of a pneumatic-driven biomimetic knee joint for biped robot. , 2017, , .		4
118	Research on the cable-pulley underactuated lower limb exoskeleton. , 2017, , .		4
119	Experiments and simulations of the standing wave acoustic field produced by two transducers mounted in contraposition. Proceedings of Meetings on Acoustics, 2017, , .	0.3	4
120	Design and Experimental Development of a Pneumatic Stiffness Adjustable Foot System for Biped Robots Adaptable to Bumps on the Ground. Applied Sciences (Switzerland), 2017, 7, 1005.	1.3	4
121	Design and Implementation of Plastic Deformation Behavior by Cartesian Impedance Control Based on Maxwell Model. Complexity, 2018, 2018, 1-9.	0.9	4
122	A new robot skating on water surface intimating water striders based on flexible driving mechanism. , 2019, , .		4
123	Natural Growth-Inspired Distributed Self-Reconfiguration of UBot Robots. Complexity, 2019, 2019, 1-12.	0.9	4
124	A Single Driven Bionic Water Strider Sliding Robot Mimicking the Spatial Elliptical Trajectory. , 2019, , .		4
125	Bionic Knee Joint Structure and Motion Analysis of a Lower Extremity Exoskeleton. , 2020, , .		4
126	Robot Variable Impedance Skill Transfer and Learning Framework Based on a Simplified Human Arm Impedance Model. IEEE Access, 2020, 8, 225627-225638.	2.6	4



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127	Maxwell Model-Based Null Space Compliance Control in the Task-Priority Framework for Redundant Manipulators. IEEE Access, 2020, 8, 35892-35904.	2.6	4
128	An Online Stiffness Estimation Approach for Variable Stiffness Actuators Using Lever Mechanism. IEEE Robotics and Automation Letters, 2022, 7, 6709-6717.	3.3	4
129	Robot dynamic calibration on current level: modeling, identification and applications. Nonlinear Dynamics, 2022, 109, 2595-2613.	2.7	4
130	Discrete sliding mode control with fuzzy adaptive reaching law on 6-PPRS parallel robot. , 2006, , .		3
131	Artificial moment method using attractive points for the local path planning of a single robot in complicated dynamic environments. Robotica, 2013, 31, 1263-1274.	1.3	3
132	System overview and walking dynamics of a passive dynamic walking robot with flat feet. Advances in Mechanical Engineering, 2015, 7, 168781401562096.	0.8	3
133	Research on design and jumping performance of a new water-jumping robot imitating water striders. , 2015, , .		3
134	SWINGING LEG CONTROL OF A LOWER LIMB EXOSKELETON VIA A SHOE WITH IN-SOLE SENSING. Transactions of the Canadian Society for Mechanical Engineering, 2016, 40, 657-666.	0.3	3
135	Estimation of pathological tremor from recorded signals based on adaptive sliding fast Fourier transform. Advances in Mechanical Engineering, 2016, 8, 168781401665487.	0.8	3
136	Modeling of the supporting legs for a water-jumping robot mimicking water striders. , 2016, , .		3
137	Influence of the swing ankle angle on walking stability for a passive dynamic walking robot with flat feet. Advances in Mechanical Engineering, 2016, 8, 168781401664201.	0.8	3
138	On the utility of leg distal compliance for buffering landing impact of legged robots. Advances in Mechanical Engineering, 2017, 9, 168781401770005.	0.8	3
139	A New Type Large-Scale Water-Jumping Robot Design and Simulation. , 2018, , .		3
140	Continuous Joint Angle Estimation by Least Support Vector Machine from Time-Delayed sEMG Features. , 2018, , .		3
141	Development of a parallel-structured upper limb exoskeleton for lifting assistance. , 2019, , .		3
142	On the Stability of Maxwell Model based Impedance Control and Cartesian Admittance Control Implementation. , 2019, , .		3
143	Multiphase Trajectory Generation for Planar Biped Robot Using Direct Collocation Method. Mathematical Problems in Engineering, 2021, 2021, 1-14.	0.6	3
144	Assistance Control of Human-Exoskeleton Integrated System for Balance Recovery Augmentation in Sagittal Plane. IEEE Transactions on Industrial Electronics, 2022, 69, 528-538.	5.2	3

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145	A DESIGNATION OF MODULAR MOBILE RECONFIGURABLE PLATFORM SYSTEM. Journal of Mechanics in Medicine and Biology, 2020, 20, 2040006.	0.3	3
146	Design and Control of a Series-Parallel Elastic Actuator for a Weight-Bearing Exoskeleton Robot. Sensors, 2022, 22, 1055.	2.1	3
147	Research on the Reconfigurable Image Processing System. , 2008, , .		2
148	Optical flow based plane detection for mobile robot navigation. , 2011, , .		2
149	A PD control scheme for passive dynamic walking based on series elastic actuator. , 2012, , .		2
150	A dynamic simulation and virtual evolution platform for modular self-reconfigurable robots. , 2013, , .		2
151	On the design of lower extremity exoskeleton with single drive (LEESD). , 2014, , .		2
152	Research on 3D reconstruction for robot based on SIFT feature. , 2014, , .		2
153	Prediction of joint angle by combining multiple linear regression with autoregressive (AR) model and Kalman filter. , 2015, , .		2
154	Kinematics and singularity analysis of a novel 7-DOF humanoid arm based on parallel manipulating spherical joints. , 2015, , .		2
155	Estimation of tremor parameters and extraction tremor from recorded signals for tremor suppression. , 2016, , .		2
156	Research of positioning method for automatic spraying on large ship block surfaces. , 2016, , .		2
157	Optimization of the impedance controller for the low impact docking. , 2016, , .		2
158	The development of pneumatic stiffness-adjustable foot for bipedal robot. , 2017, , .		2
159	A Consequent-Pole Five-Phase Fault-Tolerant Permanent-Magnet Synchronous Machine for Electric Vehicles. , 2018, , .		2
160	DEVELOPMENT OF A COMPACT LOWER-LIMB EXOSKELETON FOR WALKING ASSISTANCE: A CASE STUDY. Journal of Mechanics in Medicine and Biology, 2019, 19, 1940039.	0.3	2
161	Model-Error-Observer-Based Control of Robotic Manipulator with Uncertain Dynamics. , 2019, , .		2
162	Picking Towels in Point Clouds. Sensors, 2019, 19, 713.	2.1	2

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163	Design and Kinematics of Cable-Driven Soft Module Coupled with Spring*. , 2019, , .		2
164	A New Pressure-adsorption Climbing Robot Realized through Ducted Fan. , 2020, , .		2
165	Disturbance Elimination for the Modular Joint Torque Sensor of a Collaborative Robot. Mathematical Problems in Engineering, 2020, 2020, 1-14.	0.6	2
166	Research on frog-inspired swimming robot driven by pneumatic muscles. Robotica, 0, , 1-11.	1.3	2
167	SPACE CALIBRATION OF THE ROBOT SYSTEM IN PUNCTURE SURGERY. Journal of Mechanics in Medicine and Biology, 2021, 21, .	0.3	2
168	A Diagonal Recurrent CMAC Model Reference Adaptive Control for Parallel Manipulators Trajectory Tracking. , 2006, , .		1
169	The AUV heading control system based on auto disturbance rejection control principle. , 2010, , .		1
170	Research on UUV's heading control based on adaptive robust PD control principle. , 2011, , .		1
171	A homogenous CPG-network for multimode locomotion control of modular self-reconfigurable robot. , 2012, , .		1
172	Design and implementation of a finger haptic device for large-scale force-tactile hybrid haptic rendering. , 2012, , .		1
173	An elbow biomechanical model and its coefficients adjustment. , 2014, , .		1
174	A modular manipulator system using rotary joints toward helping the elderly and the handicapped. , 2014, , .		1
175	A programmable electrical stimulator for suppressing pathological tremor. , 2016, , .		1
176	Environment feature recognition algorithm for rescue robot based on a 2D laser radar. , 2016, , .		1
177	Study on the Rowing of Flexible Actuating Leg on Water Surface Intimating Water Striders. , 2018, , .		1
178	Elbow Joint Angle Estimation in Wavelet Neural Network Using ReliefF Selected Features of sEMG and Post Filter. , 2018, , .		1
179	Robust output-feedback torque controller design for series elastic actuators and its application in multi-level control frameworks. ISA Transactions, 2022, 123, 443-454.	3.1	1
180	An Error Compensation Method for Surgical Robot Based on RCM Mechanism. IEEE Access, 2021, 9, 140747-140758.	2.6	1

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181	Learning to Identify Footholds from Geometric Characteristics for a Six-legged Robot over Rugged Terrain. Journal of Bionic Engineering, 2020, 17, 512-522.	2.7	1
182	Simulation Research on Reconfiguration Locomotion Planning for a 3-D Self-reconfigurable Robot. , 2006, , .		0
183	Research of Trajectory Tracking Control of Two-Wheeled Self-Balance Robot. , 2006, , .		0
184	Prediction of AUV moving target based on forward looking sonar using grey prediction principle. , 2009, , .		0
185	Development of a Low-Cost High-Fidelity Simulator for Search and Rescue Robot. , 2009, , .		0
186	The UUV heading control system based on adaptive robust PD control principle. , 2011, , .		0
187	Research on state-guided teleoperation assistance method. , 2011, , .		0
188	Gait design and optimization of a new limb robot. , 2012, , .		0
189	Virutual guides for force feedback teleoperation. , 2013, , .		0
190	Hybrid position-attitude control of DF-UAV based on generalized flight dynamics. , 2013, , .		0
191	Research on turning motion for biped robot based on consumption. , 2014, , .		0
192	An elbow-biomechanical modeling based on sEMG. , 2014, , .		0
193	Effects of PD control parameter on walking characteristics of a passive dynamic walker with torso. , 2014, , .		0
194	Tracking for humanoid robot based on Kinect. , 2014, , .		0
195	A distributed self-reconfiguration method combining cellular automata and L-systems. , 2015, , .		0
196	Analysis and simulation of the neural oscillator for tremor suppression by FES. , 2015, , .		0
197	Automatic generating controller expressions and locomotion for UBot modular self-reconfigurable robot. , 2015, , .		0
198	Stereo Matching Algorithm Based on 2D Delaunay Triangulation. Mathematical Problems in Engineering, 2015, 2015, 1-8.	0.6	0

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199	MECHANISM AND ANTI-EXPLOSION DESIGN OF AN OMNITREAD SERPENTINE ROBOT FOR SEARCHING IN COAL MINES. , 2015, , .		0
200	An Efficient Invariant Matching across Different View Images. , 2016, , .		0
201	Linear-hall sensor based force detecting unit for lower limb exoskeleton. AIP Conference Proceedings, 2018, , .	0.3	0
202	COMSOL-based simulations and experiments on the classifying trajectory of the mixed particles levitated in standing wave field. Proceedings of Meetings on Acoustics, 2019, , .	0.3	0
203	A New Cable-driven Torsion and Bending Soft Actuator Inspired by Parallel Robot. , 2019, , .		0
204	ONLINE ACTIVE ENSEMBLE LEARNING FOR ROBOT COLLISION DETECTION IN DYNAMIC ENVIRONMENTS. Journal of Mechanics in Medicine and Biology, 2021, 21, 2150035.	0.3	0
205	Design and motion performance of new inspection robot for Steam Generator heat transfer tubes. , 2021, , .		0
206	Simulation Study of a Spider-Like Robot Based on Leg Reorganization. , 2021, , .		0
207	Research Status and Development Trend of Inspection Robot for Steam Generator Heat Transfer Tubes. , 2021, , .		0
208	WeD-3-2 EVOLVING ADAPTIVE BEHAVIOR FOR UBOT MODULAR SELF-RECONFIGURABLE ROBOT. Proceedings of JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for Information and Precision Equipment IIP/ISPS Joint MIPE, 2015, 2015, _WeD-3-2-1-_WeD-3-2-3.	0.0	0
209	Design and Analysis of a Thrust Vector Mechanism Applied in a Flying Wing. , 2016, , .		0
210	Experiments on the relationship between the structural parameters of contraposition transducers and the acoustic levitation transportation trajectory. Proceedings of Meetings on Acoustics, 2019, , .	0.3	0
211	Design of Augmented Reality System Based on Improved ORB Hybrid Algorithm. , 2021, , .		0
212	A Novel Multi-Fingered Hand for Robotic Grasp. , 2021, , .		0
213	A Rhythmic Motion Control Method Inspired by Board Shoe Racing for a Weight-Bearing Exoskeleton. Journal of Bionic Engineering, 2022, 19, 403-415.	2.7	0
214	Movement generalization of variable initial task state based on Euclidean transformation dynamical movement primitives. International Journal of Advanced Robotic Systems, 2021, 18, 1729881421110655.	1.3	0
215	Adaptive Step Puncture Strategy Based on Online Identification of Tissue Shore Hardness. , 2021, , .		0
216	An accurate identification method based on double weighting for inertial parameters of robot payloads. Robotica, 0, , 1-17.	1.3	0