

Qiang Huang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

272 papers	2,460 citations	21 h-index	40 g-index
383 ext. papers	3,393 ext. citations	4 avg, IF	5.15 L-index

#	Paper	IF	Citations
272	Planning walking patterns for a biped robot. <i>IEEE Transactions on Automation Science and Engineering</i> , 2001 , 17, 280-289		510
271	Sensory reflex control for humanoid walking 2005 , 21, 977-984		101
270	Microfluidic channel fabrication by PDMS-interface bonding. <i>Smart Materials and Structures</i> , 2006 , 15, S112-S116	3.4	79
269	On-chip self-assembly of cell embedded microstructures to vascular-like microtubes. <i>Lab on A Chip</i> , 2014 , 14, 1151-61	7.2	71
268	A New Kind of Accurate Calibration Method for Robotic Kinematic Parameters Based on the Extended Kalman and Particle Filter Algorithm. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 3337-3345	8.9	62
267	Resveratrol inhibits glioma cell growth via targeting oncogenic microRNAs and multiple signaling pathways. <i>International Journal of Oncology</i> , 2015 , 46, 1739-47	4.4	60
266	Magnetic alginate microfibers as scaffolding elements for the fabrication of microvascular-like structures. <i>Acta Biomaterialia</i> , 2018 , 66, 272-281	10.8	38
265	Three-dimensional hepatic lobule-like tissue constructs using cell-microcapsule technology. <i>Acta Biomaterialia</i> , 2017 , 50, 178-187	10.8	36
264	Assembly of RGD-Modified Hydrogel Micromodules into Permeable Three-Dimensional Hollow Microtissues Mimicking in Vivo Tissue Structures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 41669-41679	9.5	34
263	An overview of biomimetic robots with animal behaviors. <i>Neurocomputing</i> , 2019 , 332, 339-350	5.4	34
262	Bioinspired Control of Walking With Toe-Off, Heel-Strike, and Disturbance Rejection for a Biped Robot. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 7962-7971	8.9	32
261	Magnetically-driven medical robots: An analytical magnetic model for endoscopic capsules design. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 452, 278-287	2.8	30
260	Muscle Strength Assessment System Using sEMG-Based Force Prediction Method for Wrist Joint. <i>Journal of Medical and Biological Engineering</i> , 2016 , 36, 121-131	2.2	30
259	Shape-controlled high cell-density microcapsules by electrodeposition. <i>Acta Biomaterialia</i> , 2016 , 37, 93-100	10.8	29
258	Magnetic assembly of microfluidic spun alginate microfibers for fabricating three-dimensional cell-laden hydrogel constructs. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 1169-1180	2.8	26
257	Gait Planning of Omnidirectional Walk on Inclined Ground for Biped Robots. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016 , 46, 888-897	7.3	26
256	On-chip fabrication and magnetic force estimation of peapod-like hybrid microfibers using a microfluidic device. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 1177-1187	2.8	25

255	Self-Actuating Asymmetric Platinum Catalytic Mobile Nanorobot. <i>IEEE Transactions on Robotics</i> , 2014 , 30, 33-39	6.5	24
254	Design and similarity evaluation on humanoid motion based on human motion capture. <i>Robotica</i> , 2010 , 28, 737-745	2.1	23
253	Disturbance Rejection for Biped Walking Using Zero-Moment Point Variation Based on Body Acceleration. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 2265-2276	11.9	22
252	Multicellular Co-Culture in Three-Dimensional Gelatin Methacryloyl Hydrogels for Liver Tissue Engineering. <i>Molecules</i> , 2019 , 24,	4.8	21
251	Design of humanoid complicated dynamic motion based on human motion capture 2005 ,		21
250	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 845-854	5.5	20
249	A Modified Robotic Rat to Study Rat-Like Pitch and Yaw Movements. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 2448-2458	5.5	19
248	Dynamic model based ball trajectory prediction for a robot ping-pong player 2010 ,		19
247	Characterization of the Resistance and Force of a Carbon Nanotube/Metal Side Contact by Nanomanipulation. <i>Scanning</i> , 2017 , 2017, 5910734	1.6	18
246	Development and Evaluation of Novel Magnetic Actuated Microrobot with Spiral Motion Using Electromagnetic Actuation System. <i>Journal of Medical and Biological Engineering</i> , 2016 , 36, 506-514	2.2	18
245	Design and Control of a Biomimetic Robotic Rat for Interaction With Laboratory Rats. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1832-1842	5.5	18
244	Multifunctional Noncontact Micromanipulation Using Whirling Flow Generated by Vibrating a Single Piezo Actuator. <i>Small</i> , 2019 , 15, e1804421	11	18
243	A spherical robot based on all programmable SoC and 3-D printing 2014 ,		17
242	Mechanical Design and Dynamic Modeling of a Two-Wheeled Inverted Pendulum Mobile Robot 2007 ,		17
241	Lead-Free Perovskite Cs ₂ AgBiX ₆ Nanocrystals with a Band Gap Funnel Structure for Photocatalytic CO ₂ Reduction under Visible Light. <i>Chemistry of Materials</i> , 2021 , 33, 4971-4976	9.6	17
240	Development of a Highly Compact Microgripper Capable of Online Calibration for Multisized Microobject Manipulation. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 657-661	2.6	15
239	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 667-678	5.5	15
238	On-chip fabrication of magnetic alginate hydrogel microfibers by multilayered pneumatic microvalves. <i>Microfluidics and Nanofluidics</i> , 2014 , 17, 457-468	2.8	15

237	Behavior modulation of rats to a robotic rat in multi-rat interaction. <i>Bioinspiration and Biomimetics</i> , 2015 , 10, 056011	2.6	15
236	Contact Force/Torque Control Based on Viscoelastic Model for Stable Bipedal Walking on Indefinite Uneven Terrain. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019 , 16, 1627-1639 ^{4.9}	4.9	14
235	Tactile priming modulates the activation of the fronto-parietal circuit during tactile angle match and non-match processing: an fMRI study. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 926	3.3	14
234	Design of a Hybrid Indoor Location System Based on Multi-Sensor Fusion for Robot Navigation. <i>Sensors</i> , 2018 , 18,	3.8	14
233	Hand-eye servo and impedance control for manipulator arm to capture target satellite safely. <i>Robotica</i> , 2015 , 33, 848-864	2.1	13
232	Modeling and design of a humanoid robotic face based on an active drive points model. <i>Advanced Robotics</i> , 2014 , 28, 379-388	1.7	13
231	Anthropomorphic robotic arm with integrated elastic joints for TCM remedial massage. <i>Robotica</i> , 2015 , 33, 348-365	2.1	13
230	Integrating Compliant Actuator and Torque Limiter Mechanism for Safe Home-Based Upper-Limb Rehabilitation Device Design. <i>Journal of Medical and Biological Engineering</i> , 2017 , 37, 357-364	2.2	11
229	sEMG-Based Hand-Gesture Classification Using a Generative Flow Model. <i>Sensors</i> , 2019 , 19,	3.8	11
228	The Mechanism of Yaw Torque Compensation in the Human and Motion Design for Humanoid Robots. <i>International Journal of Advanced Robotic Systems</i> , 2013 , 10, 57	1.4	11
227	Gender Differences in Global Functional Connectivity During Facial Emotion Processing: A Visual MMN Study. <i>Frontiers in Behavioral Neuroscience</i> , 2018 , 12, 220	3.5	11
226	Robust push recovery by whole-body dynamics control with extremal accelerations. <i>Robotica</i> , 2014 , 32, 467-476	2.1	10
225	Integral Acceleration Generation for Slip Avoidance in a Planar Humanoid Robot. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 2924-2934	5.5	10
224	Distributed Control System for a Humanoid Robot 2007 ,		10
223	A teleoperation system for a humanoid robot with multiple information feedback and operational modes 2005 ,		10
222	Assembly of alginate microfibers to form a helical structure using micromanipulation with a magnetic field. <i>Journal of Micromechanics and Microengineering</i> , 2016 , 26, 105017	2	10
221	Bubbles in microfluidics: an all-purpose tool for micromanipulation. <i>Lab on A Chip</i> , 2021 , 21, 1016-1035	7.2	10
220	Advances in Micromanipulation Actuated by Vibration-Induced Acoustic Waves and Streaming Flow. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1260	2.6	9

219	Bio-inspired falling motion control for a biped humanoid robot 2014 ,		9
218	An ultrasound-directed robotic system for microwave ablation of liver cancer. <i>Robotica</i> , 2010 , 28, 209-214	14.1	9
217	Computer control system and walking pattern control for a humanoid robot 2008 ,		9
216	Location and Tracking of Robot End-effector Based on Stereo Vision 2006 ,		9
215	Fabrication of vascular smooth muscle-like tissues based on self-organization of circumferentially aligned cells in microengineered hydrogels. <i>Lab on A Chip</i> , 2020 , 20, 3120-3131	7.2	9
214	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 3442-3451	8.9	9
213	3D Construction of Shape-Controllable Tissues through Self-Bonding of Multicellular Microcapsules. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22950-22961	9.5	8
212	On-Chip Cell-Cell Interaction Monitoring at Single-Cell Level by Efficient Immobilization of Multiple Cells in Adjustable Quantities. <i>Analytical Chemistry</i> , 2020 , 92, 11607-11616	7.8	8
211	Hydrodynamic Tweezers: Trapping and Transportation in Microscale Using Vortex Induced by Oscillation of a Single Piezoelectric Actuator. <i>Sensors</i> , 2018 , 18,	3.8	8
210	Kinematics and trajectory planning of a supporting medical manipulator for vascular interventional surgery 2011 ,		8
209	Rapid and precise object detection based on color histograms and adaptive bandwidth mean shift 2009 ,		8
208	Controller design of a two-wheeled inverted pendulum mobile robot 2008 ,		8
207	Walking Pattern Generation for Humanoid Robot Considering Upper Body Motion 2006 ,		8
206	Structural Design and Crawling Pattern Generator of a Planar Quadruped Robot for High-Payload Locomotion. <i>Sensors</i> , 2020 , 20,	3.8	8
205	Magnetic Micromachine Using Nickel Nanoparticles for Propelling and Releasing in Indirect Assembly of Cell-Laden Micromodules. <i>Micromachines</i> , 2019 , 10,	3.3	7
204	Engineered tissue micro-rings fabricated from aggregated fibroblasts and microfibres for a bottom-up tissue engineering approach. <i>Biofabrication</i> , 2019 , 11, 035029	10.5	7
203	. <i>IEEE Access</i> , 2020 , 8, 62495-62504	3.5	7
202	Discrimination threshold for haptic volume perception of fingers and phalanges. <i>Attention, Perception, and Psychophysics</i> , 2018 , 80, 576-585	2	7

201	Motion Planning for Bipedal Robot to Perform Jump Maneuver. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 139	2.6	7
200	Design, synthesis and anticancer activity of novel 6-(aminophenyl)-2,4-bismorpholino-1,3,5-triazine derivatives bearing arylmethylen hydrazine moiety. <i>Chemical Research in Chinese Universities</i> , 2014 , 30, 257-265	2.2	7
199	Micro-Assembly of a Vascular-Like Micro-Channel with Railed Micro-Robot Team-Coordinated Manipulation. <i>International Journal of Advanced Robotic Systems</i> , 2014 , 11, 115	1.4	7
198	Design of a humanoid ping-pong player robot with redundant joints 2013 ,		7
197	A medical robot for needle placement therapy in liver cancer. <i>Journal of Zhejiang University: Science A</i> , 2010 , 11, 263-269	2.1	7
196	Real-time Object Tracking of a Robot Head Based on Multiple Visual Cues Integration 2006 ,		7
195	Cooperation of dynamic patterns and sensory reflex for humanoid walking		7
194	Humanoids walk with feedforward dynamic pattern and feedback sensory reflection		7
193	On-Chip Construction of Multilayered Hydrogel Microtubes for Engineered Vascular-Like Microstructures. <i>Micromachines</i> , 2019 , 10,	3.3	7
192	A Wearable Navigation Device for Visually Impaired People Based on the Real-Time Semantic Visual SLAM System. <i>Sensors</i> , 2021 , 21,	3.8	7
191	How to achieve precise operation of a robotic manipulator on a macro to micro/nano scale. <i>Assembly Automation</i> , 2017 , 37, 186-199	2.1	6
190	Permeable hollow 3D tissue-like constructs engineered by on-chip hydrodynamic-driven assembly of multicellular hierarchical micromodules. <i>Acta Biomaterialia</i> , 2020 , 113, 328-338	10.8	6
189	LCPF: A Particle Filter Lidar SLAM System With Loop Detection and Correction. <i>IEEE Access</i> , 2020 , 8, 204015-204062	3.5	6
188	Vortex-Driven Rotation for Three-Dimensional Imaging Under Microscopy. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 688-691	2.6	6
187	SEMG Feature Extraction Based on Stockwell Transform Improves Hand Movement Recognition Accuracy. <i>Sensors</i> , 2019 , 19,	3.8	6
186	A torque limiter for safe joint applied to humanoid robots against falling damage 2015 ,		6
185	Voice Based Control for Humanoid Teleoperation 2010 ,		6
184	Research and development of throwable miniature reconnaissance robot 2012 ,		6

183	Generation of humanoid walking pattern based on human walking measurement 2008 ,		6
182	Compliance control of a humanoid arm based on force feedback		6
181	Mechanical Design and Control System of a Minimally Invasive Surgical Robot System 2006 ,		6
180	Implementing Rat-Like Motion for a Small-Sized Biomimetic Robot Based on Extraction of Key Movement Joints. <i>IEEE Transactions on Robotics</i> , 2021 , 37, 747-762	6.5	6
179	Microfluidic Device to Measure the Speed of Using the Resistance Change of the Flexible Electrode. <i>Micromachines</i> , 2016 , 7,	3.3	6
178	A kind of biomimetic control method to anthropomorphize a redundant manipulator for complex tasks. <i>Science China Technological Sciences</i> , 2020 , 63, 14-24	3.5	6
177	Do theta oscillations explain the somatosensory change detection mechanism?. <i>Biological Psychology</i> , 2019 , 143, 103-112	3.2	5
176	Effects of aging on pointing movements under restricted visual feedback conditions. <i>Human Movement Science</i> , 2015 , 40, 1-13	2.4	5
175	Micromanipulation for Coiling Microfluidic Spun Alginate Microfibers by Magnetically Guided System. <i>IEEE Robotics and Automation Letters</i> , 2016 , 1, 808-813	4.2	5
174	Kinematic Modeling of a Small Mobile Robot with Multi-Locomotion Modes 2006 ,		5
173	Motion Planning for Stepping On/Off Obstacles by Humanoid Robot 2007 ,		5
172	Object manipulation of a humanoid robot based on visual Servoing 2007 ,		5
171	A Visual Tele-operation System for the Humanoid Robot BHR-02 2006 ,		5
170	Realization and Trajectory Planning for Obstacle Stepping Over by Humanoid Robot BHR-2 2006 ,		5
169	Biped Walking of Magnetic Microrobot in Oscillating Field for Indirect Manipulation of Non-Magnetic Objects. <i>IEEE Nanotechnology Magazine</i> , 2020 , 19, 21-24	2.6	5
168	Efficient Single-Cell Mechanical Measurement by Integrating a Cell Arraying Microfluidic Device With Magnetic Tweezer. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 2978-2984	4.2	5
167	Neural Responses to Central and Peripheral Objects in the Lateral Occipital Cortex. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 54	3.3	5
166	Magnetically Driven Soft Continuum Microrobot for Intravascular Operations in Microscale. <i>Cyborg and Bionic Systems</i> , 2022 , 2022, 1-8	0	5

165	Non-contact high-speed rotation of micro targets by vibration of single piezoelectric actuator 2016 ,		4
164	Robotics-based micro-reeling of magnetic microfibers to fabricate helical structure for smooth muscle cells culture 2017 ,		4
163	Simulation of humanoid motion based on the foot with one active joint 2010 ,		4
162	Mechanical design of a light weight and high stiffness humanoid arm of BHR-03 2009 ,		4
161	Flexible foot design for a humanoid robot 2008 ,		4
160	Humanoid Motion Design Considering Rhythm Based on Human Motion Capture 2006 ,		4
159	MOBIT, A Small Wheel - Track - Leg Mobile Robot 2006 ,		4
158	Construction of Hepatic-Lobule-Like 3-D Vascular Network in Cellular Structure by Manipulating Magnetic Fibers. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 477-486	5.5	4
157	UAPF: A UWB Aided Particle Filter Localization For Scenarios with Few Features. <i>Sensors</i> , 2020 , 20,	3.8	4
156	Dynamic Torso Compliance Control for Standing and Walking Balance of Position-Controlled Humanoid Robots. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 679-688	5.5	4
155	An Integrated Two-Pose Calibration Method for Estimating Head-Eye Parameters of a Robotic Bionic Eye. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 1664-1672	5.2	4
154	A tetrahedral DNA nanorobot with conformational change in response to molecular trigger. <i>Nanoscale</i> , 2021 , 13, 15552-15559	7.7	4
153	Turning Gait Planning Method for Humanoid Robots. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1257	2.6	4
152	Three-Dimensional Autofocusing Visual Feedback for Automated Rare Cells Sorting in Fluorescence Microscopy. <i>Micromachines</i> , 2019 , 10,	3.3	3
151	A novel space target-tracking method based on generalized Gaussian distribution for on-orbit maintenance robot in Tiangong-2 space laboratory. <i>Science China Technological Sciences</i> , 2019 , 62, 1045-1054	3.5	3
150	Template-based fabrication of spatially organized 3D bioactive constructs using magnetic low-concentration gelation methacrylate (GelMA) microfibers. <i>Soft Matter</i> , 2020 , 16, 3902-3913	3.6	3
149	Multi-Scale Object Detection Using Feature Fusion Recalibration Network. <i>IEEE Access</i> , 2020 , 8, 51664-51673	3.5	3
148	Analytical Magnetic Model Towards Compact Design of Magnetically-Driven Capsule Robots. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2020 , 2, 188-195	3.1	3

147	A compensation strategy for accurate orientation of a tethered robotic capsule endoscope 2017 ,		3
146	Microrobotic Assembly of Shape-Customized Three-Dimensional Microtissues Based on Surface Tension Driven Self-Alignment. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 684-687	2.6	3
145	The role of computed tomography data in the design of a robotic magnetically-guided endoscopic platform. <i>Advanced Robotics</i> , 2018 , 32, 443-456	1.7	3
144	An Improved Variable Spring Balance Position Impedance Control for a Complex Docking Structure. <i>International Journal of Social Robotics</i> , 2016 , 8, 619-629	4	3
143	High-Speed Bioassembly of Cellular Microstructures With Force Characterization for Repeating Single-Step Contact Manipulation. <i>IEEE Robotics and Automation Letters</i> , 2016 , 1, 1097-1102	4.2	3
142	A NOVEL PROPORTIONAL AND SIMULTANEOUS CONTROL METHOD FOR PROSTHETIC HAND. <i>Journal of Mechanics in Medicine and Biology</i> , 2017 , 17, 1750120	0.7	3
141	Design and control of robot legs with bi-articular muscle-tendon complex 2017 ,		3
140	High-precision microinjection of microbeads into <i>C. elegans</i> trapped in a suction microchannel 2017 ,		3
139	3D magnetic assembly of cellular structures with "printing" manipulation by microrobot-controlled microfluidic system 2015 ,		3
138	A space robot hand arm system: Designed for capture 2015 ,		3
137	A Robust and Efficient Algorithm for Tool Recognition and Localization for Space Station Robot. <i>International Journal of Advanced Robotic Systems</i> , 2014 , 11, 193	1.4	3
136	System design of an Anthropomorphic arm robot for dynamic interaction task 2011 ,		3
135	A novel artificial landmark for monocular global visual localization of indoor robots 2010 ,		3
134	Design and realization for throwable semi-autonomous reconnaissance robot 2011 ,		3
133	Mechanical design of a light weight and high stiffness arm for humanoids 2009 ,		3
132	The Distributed Control System Of a Light Space Manipulator 2007 ,		3
131	Analysis of Pushing Manipulation by Humanoid Robot BHR-2 during Dynamic Walking 2007 ,		3
130	Software Architecture for a Humanoid Robot Teleoperation Based on RT-Linux/Linux/Windows Operating System 2006 ,		3

129	Visual tracking of a moving object of a robot head with 3 DOF		3
128	Humanoid kinematics mapping and similarity evaluation based on human motion capture		3
127	Online Trajectory Generation Based on Off-line Trajectory for Biped Humanoid		3
126	Capturing and analyzing of human motion for designing humanoid motion		3
125	Resistant Compliance Control for Biped Robot Inspired by Humanlike Behavior. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-11	5.5	3
124	Low-Intensity Focused Ultrasound-Mediated Attenuation of Acute Seizure Activity Based on EEG Brain Functional Connectivity. <i>Brain Sciences</i> , 2021 , 11,	3.4	3
123	Automated Cell Mechanical Characterization by On-Chip Sequential Squeezing: From Static to Dynamic. <i>Langmuir</i> , 2021 , 37, 8083-8094	4	3
122	Self-assembly of toroidal magnetic microstructures towards in vitro cell structures 2016 ,		3
121	Design and simulation of a cable-pulley-based transmission for artificial ankle joints. <i>Frontiers of Mechanical Engineering</i> , 2016 , 11, 170-183	3.3	3
120	A novel hierarchical control strategy for biped robot walking on uneven terrain 2019 ,		3
119	Walking Control of Biped Robots on Uneven Terrains Based on SLIP Model 2019 ,		3
118	Stable Parking Control of a Robot Astronaut in a Space Station Based on Human Dynamics. <i>IEEE Transactions on Robotics</i> , 2020 , 36, 399-413	6.5	3
117	Controllable Height Hopping of a Parallel Legged Robot. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1421	2.6	3
116	Controlled rotation of micro-objects using acoustically driven microbubbles. <i>Applied Physics Letters</i> , 2021 , 118, 063701	3.4	3
115	Development of a Bipedal Robot with Bi-articular Muscle-tendon Complex between Hip and Knee Joint 2018 ,		3
114	Design of Crawling Motion for a Biped Walking Humanoid with 3-DoF Rigid-Flexible Waist 2018 ,		3
113	All-Purpose Magnetic Micromanipulation System with Two Modes: Chopstick-Like Two-Finger Microhand and Hydrodynamic Tweezer. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	3
112	A novel under-actuated bionic hand and its grasping stability analysis. <i>Advances in Mechanical Engineering</i> , 2017 , 9, 168781401668885	1.2	2

111	Design and Experimental Evaluation of Wearable Lower Extremity Exoskeleton with Gait Self-adaptivity. <i>Robotica</i> , 2019 , 37, 2035-2055	2.1	2
110	Design of a powered ankle-foot prosthesis with an adjustable stiffness toe joint. <i>Advanced Robotics</i> , 2020 , 34, 689-697	1.7	2
109	Novel In situ nanomanipulation integrated with SEM-CT imaging system 2016 ,		2
108	Trajectory optimization of humanoid robots swinging leg 2017 ,		2
107	Biomimetic upper limb mechanism of humanoid robot for shock resistance based on viscoelasticity 2017 ,		2
106	Modes of Effective Connectivity within Cortical Pathways Are Distinguished for Different Categories of Visual Context: An fMRI Study. <i>Frontiers in Behavioral Neuroscience</i> , 2017 , 11, 64	3.5	2
105	Dual-MWCNT Probe Thermal Sensor Assembly and Evaluation Based on Nanorobotic Manipulation inside a Field-Emission-Scanning Electron Microscope. <i>International Journal of Advanced Robotic Systems</i> , 2015 , 12, 21	1.4	2
104	Contact characterization between multi-walled carbon nanotubes and metal electrodes 2015 ,		2
103	System design of a 9-DOF robot capable of fast and flexible rally task 2014 ,		2
102	Construction of vascular-like microtubes via fluidic axis-translation self-assembly based on multiple hydrogels 2014 ,		2
101	Development of an omnidirectional vision system for environment perception 2014 ,		2
100	6-DOF Maxillofacial surgical robotic manipulator controlled by Haptic device 2012 ,		2
99	Humanoid walking pattern generation based on the ground reaction force features of human walking 2012 ,		2
98	Mechanical design and balance control of a Humanoid Waist Joint 2010 ,		2
97	An improved ZMP trajectory design for the biped robot BHR 2011 ,		2
96	Mechanical designs and control system of throwable miniature reconnaissance robot 2011 ,		2
95	Ping-pong trajectory perception and prediction by a PC based High speed four-camera vision system 2011 ,		2
94	A fuzzy-model-based gravity center adjustment and inclination control for stair-climbing wheelchair 2012 ,		2

93	On-line trajectory generation for a humanoid robot based on combination of off-line patterns 2009 ,		2
92	Measurement of human walking and generation of humanoid walking pattern 2007 ,		2
91	Object Manipulation of Humanoid Robot Based on Combined Optimization Approach 2007 ,		2
90	Fast object location and tracing using two CCD cameras and laser range finder		2
89	Kinematics mapping and similarity evaluation of humanoid motion based on human motion capture		2
88	Modeling and evaluation of the joint mechanical flexibility of a humanoid robot		2
87	Sensory reflex for biped humanoid walking		2
86	A real-time walking pattern recognition method for soft knee power assist wear. <i>International Journal of Advanced Robotic Systems</i> , 2020 , 17, 172988142092529	1.4	2
85	Dynamic Torso Posture Compliance Control for Standing Balance of Position-Controlled Humanoid Robots 2020 ,		2
84	Magnetic Driven Two-Finger Micro-Hand with Soft Magnetic End-Effector for Force-Controlled Stable Manipulation in Microscale. <i>Micromachines</i> , 2021 , 12,	3.3	2
83	2021 ,		2
82	A master-slave control system for lower limb rehabilitation robot with pedal-actuated exoskeleton 2016 ,		2
81	Target-tools recognition method based on an image feature library for space station cabin service robots. <i>Robotica</i> , 2016 , 34, 925-941	2.1	2
80	Novel design of a 3-DOF series-parallel torso for humanoid robots 2016 ,		2
79	Passive buffering arm for a humanoid robot against falling damage 2016 ,		2
78	Automated Sorting of Rare Cells Based on Autofocusing Visual Feedback in Fluorescence Microscopy 2019 ,		2
77	Development of an MEMS based biomimetic whisker sensor for tactile sensing 2019 ,		2
76	RimJump: Edge-based Shortest Path Planning for a 2D Map. <i>Robotica</i> , 2019 , 37, 641-655	2.1	2

75	ReinforcedRimJump: Tangent-Based Shortest-Path Planning for Two-Dimensional Maps. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 949-958	11.9	2
74	Different Modes of Low-Frequency Focused Ultrasound-Mediated Attenuation of Epilepsy Based on the Topological Theory. <i>Micromachines</i> , 2021 , 12,	3.3	2
73	Development of a Small-Sized Quadruped Robotic Rat Capable of Multimodal Motions. <i>IEEE Transactions on Robotics</i> , 2022 , 1-10	6.5	2
72	Adaptability Control Towards Complex Ground Based on Fuzzy Logic for Humanoid Robots. <i>IEEE Transactions on Fuzzy Systems</i> , 2022 , 1-1	8.3	2
71	Contact Annealing for Self-Soldering: In Situ Investigation into Interfaces between PVP-Coated Silver Nanoelectrodes and Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36035-36043	9.5	1
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