

Qiang Huang

List of Publications by Year in Descending Order

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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	Resistant Compliance Control for Biped Robot Inspired by Humanlike Behavior. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-11	5.5	3
271	Recent Progress of Magnetically Actuated DNA Micro/Nanorobots. <i>Cyborg and Bionic Systems</i> , 2022 , 2022, 1-12	0	1
270	Development of a Small-Sized Quadruped Robotic Rat Capable of Multimodal Motions. <i>IEEE Transactions on Robotics</i> , 2022 , 1-10	6.5	2
269	Fully-Automated On-Chip Multi-Cell Arraying With Deterministic Quantities. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022 , 19, 724-734	4.9	
268	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
267	Design of a Robot for Inspecting the Multishape Pipeline Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-11	5.5	0
266	Noncontact 3-D Orientation Control at Microscale: Hydrodynamic Out-of-Plane Rotation and In-Plane Rotation by Compacted Rotational Stage. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-10	5.5	0
265	Magnetically Driven Soft Continuum Microrobot for Intravascular Operations in Microscale. <i>Cyborg and Bionic Systems</i> , 2022 , 2022, 1-8	0	5
264	Stride Length and Stepping Duration Adjustments Based on Center of Mass Stabilization Control. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-11	5.5	1
263	Bio-assembling and Bioprinting for Engineering Microvessels from the Bottom Up. <i>International Journal of Bioprinting</i> , 2021 , 7, 366	6.2	
262	Falling Prediction based on Machine Learning for Biped Robots. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021 , 103, 1	2.9	1
261	A Forest 3-D Lidar SLAM System for Rubber-Tapping Robot Based on Trunk Center Atlas. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-11	5.5	1
260	Bio-Inspired Take-Off Maneuver and Control in Vertical Jumping for Quadruped Robot with Manipulator. <i>Micromachines</i> , 2021 , 12,	3.3	1
259	Design and Implementation of Symmetric Legged Robot for Highly Dynamic Jumping and Impact Mitigation. <i>Sensors</i> , 2021 , 21,	3.8	1
258	Continuous Jumping Control Based on Virtual Model Control for a One-Leg Robot Platform. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2021 , 24-33	0.6	
257	Development of Cultured Muscles with Tendon Structures for Modular Bio-Actuators. <i>Micromachines</i> , 2021 , 12,	3.3	1
256	Automated Fabrication of the High-Fidelity Cellular Micro-Scaffold Through Proportion-Corrective Control of the Photocuring Process. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 849-854	4.2	1

255	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
254	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
253	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
252	In-Situ Bonding of Multi-Layer Microfluidic Devices Assisted by an Automated Alignment System. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 2611-2617	4.2	
251	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
250	Motion coordination for humanoid jumping using maximized joint power. <i>Advances in Mechanical Engineering</i> , 2021 , 13, 168781402110284	1.2	0
249	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
248	A guide-weight criterion-based topology optimization method for maximizing the fundamental eigenfrequency of the continuum structure. <i>Structural and Multidisciplinary Optimization</i> , 2021 , 64, 2135 ^{3.6}		1
247	Automated Cell Mechanical Characterization by On-Chip Sequential Squeezing: From Static to Dynamic. <i>Langmuir</i> , 2021 , 37, 8083-8094	4	3
246	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
245	2021 ,		2
244	Depth Estimation for Local Colon Structure in Monocular Capsule Endoscopy Based on Brightness and Camera Motion. <i>Robotica</i> , 2021 , 39, 334-345	2.1	0
243	Texture Classification of a Miniature Whisker Sensor with Varied Contact Pose. <i>Communications in Computer and Information Science</i> , 2021 , 517-526	0.3	
242	A tetrahedral DNA nanorobot with conformational change in response to molecular trigger. <i>Nanoscale</i> , 2021 , 13, 15552-15559	7.7	4
241	Holographic Display-Based Control for High-Accuracy Photolithography of Cellular Micro-Scaffold with Heterogeneous Architecture. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	1
240	Bubbles in microfluidics: an all-purpose tool for micromanipulation. <i>Lab on A Chip</i> , 2021 , 21, 1016-1035	7.2	10
239	Controllable Height Hopping of a Parallel Legged Robot. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1421	2.6	3
238	Controlled rotation of micro-objects using acoustically driven microbubbles. <i>Applied Physics Letters</i> , 2021 , 118, 063701	3.4	3

237	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
236	Different Modes of Low-Frequency Focused Ultrasound-Mediated Attenuation of Epilepsy Based on the Topological Theory. <i>Micromachines</i> , 2021 , 12,	3.3	2
235	A Study on the Classification Effect of sEMG Signals in Different Vibration Environments Based on the LDA Algorithm. <i>Sensors</i> , 2021 , 21,	3.8	1
234	Vertical Jumping by a Legged Robot With Upper and Lower Leg Bi-Articular Muscle-Tendon Complexes. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 7572-7579	4.2	0
233	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
232	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
231	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
230	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
229	LCPF: A Particle Filter Lidar SLAM System With Loop Detection and Correction. <i>IEEE Access</i> , 2020 , 8, 204015-20412	3.5	6
228	Advances in Micromanipulation Actuated by Vibration-Induced Acoustic Waves and Streaming Flow. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1260	2.6	9
227	Light source position calibration method for photometric stereo in capsule endoscopy. <i>Advanced Robotics</i> , 2020 , 34, 789-801	1.7	0
226	Design of a powered ankle-foot prosthesis with an adjustable stiffness toe joint. <i>Advanced Robotics</i> , 2020 , 34, 689-697	1.7	2
225	Multi-Scale Object Detection Using Feature Fusion Recalibration Network. <i>IEEE Access</i> , 2020 , 8, 51664-51673	3.5	3
224	. <i>IEEE Access</i> , 2020 , 8, 62495-62504	3.5	7
223	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
222	EXPERIMENTAL ASSESSMENT OF INTACT COLON DEFORMATION UNDER LOCAL FORCES APPLIED BY MAGNETIC CAPSULE ENDOSCOPES. <i>Journal of Mechanics in Medicine and Biology</i> , 2020 , 20, 2050041	0.7	1
221	Humanoid Robots 2020 , 1-16		
220	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

219	Flexible needle posture control stratagem for ultrasound-based puncture manipulator system. <i>Advanced Robotics</i> , 2020 , 34, 45-56	1.7	0
218	Combination of Hardware and Control to Reduce Humanoids Fall Damage. <i>International Journal of Humanoid Robotics</i> , 2020 , 17, 2050002	1.2	0
217	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
216	Design and optimization of a lightweight and compact waist mechanism for a robotic rat. <i>Mechanism and Machine Theory</i> , 2020 , 146, 103723	4	1
215	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
214	Bioinspired Phase-Shift Turning Action for a Biomimetic Robot. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 84-94	5.5	1
213	Structural Design and Crawling Pattern Generator of a Planar Quadruped Robot for High-Payload Locomotion. <i>Sensors</i> , 2020 , 20,	3.8	8
212	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
211	Dynamic Torso Posture Compliance Control for Standing Balance of Position-Controlled Humanoid Robots 2020 ,		2
210	UAPF: A UWB Aided Particle Filter Localization For Scenarios with Few Features. <i>Sensors</i> , 2020 , 20,	3.8	4
209	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
208	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
207	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 3442-3451	8.9	9
206	ReinforcedRimJump: Tangent-Based Shortest-Path Planning for Two-Dimensional Maps. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 949-958	11.9	2
205	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
204	Three-Dimensional Autofocusing Visual Feedback for Automated Rare Cells Sorting in Fluorescence Microscopy. <i>Micromachines</i> , 2019 , 10,	3.3	3
203	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	8.5	1
202	Magnetic Micromachine Using Nickel Nanoparticles for Propelling and Releasing in Indirect Assembly of Cell-Laden Micromodules. <i>Micromachines</i> , 2019 , 10,	3.3	7

201	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
200	Design and Experimental Evaluation of Wearable Lower Extremity Exoskeleton with Gait Self-adaptivity. <i>Robotica</i> , 2019 , 37, 2035-2055	2.1	2
199	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
198	Multicellular Co-Culture in Three-Dimensional Gelatin Methacryloyl Hydrogels for Liver Tissue Engineering. <i>Molecules</i> , 2019 , 24,	4.8	21
197	sEMG-Based Hand-Gesture Classification Using a Generative Flow Model. <i>Sensors</i> , 2019 , 19,	3.8	11
196	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
195	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	14
194	Do theta oscillations explain the somatosensory change detection mechanism?. <i>Biological Psychology</i> , 2019 , 143, 103-112	3.2	5
193	Multi-Task Learning Using Task Dependencies for Face Attributes Prediction. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2535	2.6	0
192	Design and Characterization of a 16-DOFs Nanorobotic Manipulation System for Repetitive and Pre-Programmable Tasks. <i>IEEE Nanotechnology Magazine</i> , 2019 , 18, 1208-1212	2.6	1
191	SEMG Feature Extraction Based on Stockwell Transform Improves Hand Movement Recognition Accuracy. <i>Sensors</i> , 2019 , 19,	3.8	6
190	Automated Sorting of Rare Cells Based on Autofocusing Visual Feedback in Fluorescence Microscopy 2019 ,		2
189	A novel hierarchical control strategy for biped robot walking on uneven terrain 2019 ,		3
188	Development of an MEMS based biomimetic whisker sensor for tactile sensing 2019 ,		2
187	Walking Control of Biped Robots on Uneven Terrains Based on SLIP Model 2019 ,		3
186	On-Chip Construction of Multilayered Hydrogel Microtubes for Engineered Vascular-Like Microstructures. <i>Micromachines</i> , 2019 , 10,	3.3	7
185	Guest Editorial Advances in Frontier Researches and Realistic Applications on Cyborg and Bionic Systems. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2019 , 1, 204-205	3.1	
184	Multifunctional Noncontact Micromanipulation Using Whirling Flow Generated by Vibrating a Single Piezo Actuator. <i>Small</i> , 2019 , 15, e1804421	11	18

183	An overview of biomimetic robots with animal behaviors. <i>Neurocomputing</i> , 2019 , 332, 339-350	5.4	34
182	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
181	RimJump: Edge-based Shortest Path Planning for a 2D Map. <i>Robotica</i> , 2019 , 37, 641-655	2.1	2
180	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
179	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 667-678	5.5	15
178	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
177	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
176	Construction of Multilayer Porous Scaffold Based on Magnetically Guided Assembly of Microfiber. <i>Journal of Systems Science and Complexity</i> , 2018 , 31, 581-595	1	1
175	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
174	Discrimination threshold for haptic volume perception of fingers and phalanges. <i>Attention, Perception, and Psychophysics</i> , 2018 , 80, 576-585	2	7
173	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
172	Vortex-Driven Rotation for Three-Dimensional Imaging Under Microscopy. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 688-691	2.6	6
171	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
170	Motion Planning for Bipedal Robot to Perform Jump Maneuver. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 139	2.6	7
169	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
168	Cognitive and Neural Mechanisms Involved in Interactions Between Touch and Emotion 2018 , 118-134		
167	Magnetic alginate microfibers as scaffolding elements for the fabrication of microvascular-like structures. <i>Acta Biomaterialia</i> , 2018 , 66, 272-281	10.8	38
166	Development of a Bipedal Robot with Bi-articular Muscle-tendon Complex between Hip and Knee Joint 2018 ,		3

165	Design of Crawling Motion for a Biped Walking Humanoid with 3-DoF Rigid-Flexible Waist 2018 ,		3
164	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
163	Introduction of Toe Mechanism with Bi-articular Tendon into Legged Robot 2018 ,		1
162	Design of a Hybrid Indoor Location System Based on Multi-Sensor Fusion for Robot Navigation. <i>Sensors</i> , 2018 , 18,	3.8	14
161	Turning Gait Planning Method for Humanoid Robots. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1257	2.6	4
160	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 845-854	5.5	20
159	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
158	A novel under-actuated bionic hand and its grasping stability analysis. <i>Advances in Mechanical Engineering</i> , 2017 , 9, 168781401668885	1.2	2
157	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
156	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
155	Three-dimensional hepatic lobule-like tissue constructs using cell-microcapsule technology. <i>Acta Biomaterialia</i> , 2017 , 50, 178-187	10.8	36
154	Characterization of the Resistance and Force of a Carbon Nanotube/Metal Side Contact by Nanomanipulation. <i>Scanning</i> , 2017 , 2017, 5910734	1.6	18
153	A compensation strategy for accurate orientation of a tethered robotic capsule endoscope 2017 ,		3
152	Robotics-based micro-reeling of magnetic microfibers to fabricate helical structure for smooth muscle cells culture 2017 ,		4
151	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
150	Design of compliant joints and human-robot connection in an ankle-foot exoskeleton 2017 ,		1
149	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
148	Design and control of robot legs with bi-articular muscle-tendon complex 2017 ,		3

147	Design and construction of a cycling-based wheelchair prototype 2017 ,		1
146	High-precision microinjection of microbeads into <i>C. elegans</i> trapped in a suction microchannel 2017 ,		3
145	Trajectory optimization of humanoid robots swinging leg 2017 ,		2
144	Biomimetic upper limb mechanism of humanoid robot for shock resistance based on viscoelasticity 2017 ,		2
143	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
142	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
141	Rolling motion generation of multi-points contact for a humanoid robot 2016 ,		1
140	Non-contact high-speed rotation of micro targets by vibration of single piezoelectric actuator 2016 ,		4
139	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
138	Novel In situ nanomanipulation integrated with SEM-CT imaging system 2016 ,		2
137	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
136	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
135	Microbubbles for High-Speed Assembly of Cell-Laden Vascular-Like Microtube. <i>IEEE Robotics and Automation Letters</i> , 2016 , 1, 754-759	4.2	1
134	Impact motion control of humanoid robot BHR-5 based on the energy integral method. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401562602	1.2	1
133	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
132	Development of a Socially Interactive System with Whole-Body Movements for BHR-4. <i>International Journal of Social Robotics</i> , 2016 , 8, 183-192	4	1
131	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
130	Neural Responses to Central and Peripheral Objects in the Lateral Occipital Cortex. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 54	3.3	5

129	Microfluidic Device to Measure the Speed of Using the Resistance Change of the Flexible Electrode. <i>Micromachines</i> , 2016 , 7,	3.3	6
128	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
127	Self-assembly of toroidal magnetic microstructures towards in vitro cell structures 2016 ,		3
126	Automated pick-up of carbon nanotubes inside a scanning electron microscope 2016 ,		1
125	A master-slave control system for lower limb rehabilitation robot with pedal-actuated exoskeleton 2016 ,		2
124	Self-assembly of magnetized microstructures for in vitro cell systems 2016 ,		1
123	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
122	Realization of foot rotation by breaking the kinematic contact constraint. <i>Robotica</i> , 2016 , 34, 1059-1070	2.1	1
121	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
120	Shape-controlled high cell-density microcapsules by electrodeposition. <i>Acta Biomaterialia</i> , 2016 , 37, 93-100	10.8	29
119	Novel design of a 3-DOF series-parallel torso for humanoid robots 2016 ,		2
118	Passive buffering arm for a humanoid robot against falling damage 2016 ,		2
117	Three-dimensional magnetic assembly of alginate microfibers using microfluidic printing method 2015 ,		1
116	Hand-eye servo and impedance control for manipulator arm to capture target satellite safely. <i>Robotica</i> , 2015 , 33, 848-864	2.1	13
115	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
114	Effects of aging on pointing movements under restricted visual feedback conditions. <i>Human Movement Science</i> , 2015 , 40, 1-13	2.4	5
113	A torque limiter for safe joint applied to humanoid robots against falling damage 2015 ,		6
112	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

111	Designation and Control of Landing Points for Competitive Robotic Table Tennis. <i>International Journal of Advanced Robotic Systems</i> , 2015 , 12, 92	1.4	1
110	3D magnetic assembly of cellular structures with "printing" manipulation by microrobot-controlled microfluidic system 2015 ,		3
109	3D model based ladder tracking using vision and laser point cloud data 2015 ,		1
108	Behavior modulation of rats to a robotic rat in multi-rat interaction. <i>Bioinspiration and Biomimetics</i> , 2015 , 10, 056011	2.6	15
107	A space robot hand arm system: Designed for capture 2015 ,		3
106	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
105	Virtual friction model for control of cane robot 2015 ,		1
104	Contact characterization between multi-walled carbon nanotubes and metal electrodes 2015 ,		2
103	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
102	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
101	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
100	Anthropomorphic robotic arm with integrated elastic joints for TCM remedial massage. <i>Robotica</i> , 2015 , 33, 348-365	2.1	13
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87	A spherical robot based on all programmable SoC and 3-D printing 2014 ,		17
86	Stability control for biped walking based on phase modification during double support period 2014 ,		1
85	Bio-inspired falling motion control for a biped humanoid robot 2014 ,		9
84	Development of an omnidirectional vision system for environment perception 2014 ,		2
83	3D assembly of cellular structures with coordinated manipulation by rail-guided multi-microrobotic system 2014 ,		1
82	Magnetic manipulation for spatially patterned alginate hydrogel microfibers 2013 ,		1
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80	Design of a humanoid ping-pong player robot with redundant joints 2013 ,		7
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74	A fuzzy-model-based gravity center adjustment and inclination control for stair-climbing wheelchair 2012 ,		2
73	Control system for maxillofacial surgery robot: Master-slave, motion control and safety design 2012 ,		1
72	Research and development of throwable miniature reconnaissance robot 2012 ,		6
71	A novel semi-autonomous throwbot for reconnaissance application 2012 ,		1
70	Kinematics and trajectory planning of a supporting medical manipulator for vascular interventional surgery 2011 ,		8
69	System design of an Anthropomorphic arm robot for dynamic interaction task 2011 ,		3
68	Design and workspace analysis of a light weight and high stiffness arm 2011 ,		1
67	An improved ZMP trajectory design for the biped robot BHR 2011 ,		2
66	Design and realization for throwable semi-autonomous reconnaissance robot 2011 ,		3
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56	Matrix differential expression with application in biped robot 2010 ,	1
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54	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
53	Rapid and precise object detection based on color histograms and adaptive bandwidth mean shift 2009 ,	8
52	Mechanical design of a light weight and high stiffness humanoid arm of BHR-03 2009 ,	4
51	On-line trajectory generation for a humanoid robot based on combination of off-line patterns 2009 ,	2
50	Mechanical design of a light weight and high stiffness arm for humanoids 2009 ,	3
49	Flexible foot design for a humanoid robot 2008 ,	4
48	Generation of humanoid walking pattern based on human walking measurement 2008 ,	6
47	Planning and control of MOBIS obstacle negotiating 2008 ,	1
46	Controller design of a two-wheeled inverted pendulum mobile robot 2008 ,	8
45	A friendly and human-based teleoperation system for humanoid robot using joystick 2008 ,	1
44	Computer control system and walking pattern control for a humanoid robot 2008 ,	9
43	Kinematic analysis and motion planning of a biped robot with 7-DOF and double spherical hip joint 2008 ,	1
42	Measurement of human walking and generation of humanoid walking pattern 2007 ,	2
41	Manipulability and stability of pushing operation by humanoid robot BHR-2 2007 ,	1
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39	Analysis of Pushing Manipulation by Humanoid Robot BHR-2 during Dynamic Walking 2007,	3
38	Motion Planning for Stepping On/Off Obstacles by Humanoid Robot 2007,	5
37	Object manipulation of a humanoid robot based on visual Servoing 2007,	5
36	Object Manipulation of Humanoid Robot Based on Combined Optimization Approach 2007,	2
35	Distributed Control System for a Humanoid Robot 2007,	10
34	Mechanical Design and Dynamic Modeling of a Two-Wheeled Inverted Pendulum Mobile Robot 2007,	17
33	Location and Tracking of Robot End-effector Based on Stereo Vision 2006,	9
32	Humanoid Motion Design Considering Rhythm Based on Human Motion Capture 2006,	4
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30	Kinematic Modeling of a Small Mobile Robot with Multi-Locomotion Modes 2006,	5
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22	Software Architecture for a Humanoid Robot Teleoperation Based on RT-Linux/Linux/Windows Operating System 2006,	3

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16	Planning walking patterns for a biped robot. <i>IEEE Transactions on Automation Science and Engineering</i> , 2001, 17, 280-289	510
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14	Compliance control of a humanoid arm based on force feedback	6
13	Visual tracking of a moving object of a robot head with 3 DOF	3
12	Kinematics mapping and similarity evaluation of humanoid motion based on human motion capture	2
11	Modeling and evaluation of the joint mechanical flexibility of a humanoid robot	2
10	Humanoid kinematics mapping and similarity evaluation based on human motion capture	3
9	Sensory reflex for biped humanoid walking	2
8	Online Trajectory Generation Based on Off-line Trajectory for Biped Humanoid	3
7	Cooperation of dynamic patterns and sensory reflex for humanoid walking	7
6	Capturing and analyzing of human motion for designing humanoid motion	3
5	Humanoids walk with feedforward dynamic pattern and feedback sensory reflection	7
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