

Toshio Fukuda

List of Publications by Year in descending order

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497
papers

4,462
citations

136950

32
h-index

161849

54
g-index

499
all docs

499
docs citations

499
times ranked

3277
citing authors

#	ARTICLE	IF	CITATIONS
1	Sliding-Mode Velocity Control of Mobile-Wheeled Inverted-Pendulum Systems. IEEE Transactions on Robotics, 2010, 26, 750-758.	10.3	201
2	Notice of Removal: A Disturbance Observer Based Sliding Mode Control for a Class of Underactuated Robotic System With Mismatched Uncertainties. IEEE Transactions on Automatic Control, 2019, 64, 2480-2487.	5.7	162
3	Feedback Control of an Omnidirectional Autonomous Platform for Mobile Service Robots. Journal of Intelligent and Robotic Systems: Theory and Applications, 1998, 22, 315-330.	3.4	161
4	Human-Walking-Intention-Based Motion Control of an Omnidirectional-Type Cane Robot. IEEE/ASME Transactions on Mechatronics, 2013, 18, 285-296.	5.8	157
5	Mechatronics - "What Is It, Why, and How?" An editorial. IEEE/ASME Transactions on Mechatronics, 1996, 1, 1-4.	5.8	152
6	High-speed separation system of randomly suspended single living cells by laser trap and dielectrophoresis. Electrophoresis, 2001, 22, 283-288.	2.4	148
7	Electron-beam-induced deposition with carbon nanotube emitters. Applied Physics Letters, 2002, 81, 1919-1921.	3.3	147
8	Optimal Subtask Allocation for Human and Robot Collaboration Within Hybrid Assembly System. IEEE Transactions on Automation Science and Engineering, 2014, 11, 1065-1075.	5.2	114
9	Modeling and Velocity Control for a Novel Narrow Vehicle Based on Mobile Wheeled Inverted Pendulum. IEEE Transactions on Control Systems Technology, 2013, 21, 1607-1617.	5.2	101
10	Ionic shape-morphing microrobotic end-effectors for environmentally adaptive targeting, releasing, and sampling. Nature Communications, 2021, 12, 411.	12.8	87
11	<i>In Situ</i> Single Cell Mechanics Characterization of Yeast Cells Using Nanoneedles Inside Environmental SEM. IEEE Nanotechnology Magazine, 2008, 7, 607-616.	2.0	73
12	An overview of biomimetic robots with animal behaviors. Neurocomputing, 2019, 332, 339-350.	5.9	72
13	Isolation and extraction of target microbes using thermal sol-gel transformation. Analyst, The, 2003, 128, 547.	3.5	68
14	Model-Based Intelligent Fault Detection and Diagnosis for Mating Electric Connectors in Robotic Wiring Harness Assembly Systems. IEEE/ASME Transactions on Mechatronics, 2008, 13, 86-94.	5.8	57
15	In situ formation of a gel microbead for indirect laser micromanipulation of microorganisms. Applied Physics Letters, 2005, 87, 191108.	3.3	56
16	Stabilizing and Direction Control of Efficient 3-D Biped Walking Based on PDAC. IEEE/ASME Transactions on Mechatronics, 2009, 14, 712-718.	5.8	53
17	Assembly of RGD-Modified Hydrogel Micromodules into Permeable Three-Dimensional Hollow Microtissues Mimicking in Vivo Tissue Structures. ACS Applied Materials & Interfaces, 2017, 9, 41669-41679.	8.0	50
18	Three-dimensional hepatic lobule-like tissue constructs using cell-microcapsule technology. Acta Biomaterialia, 2017, 50, 178-187.	8.3	48

#	ARTICLE	IF	CITATIONS
19	Magnetic alginate microfibers as scaffolding elements for the fabrication of microvascular-like structures. <i>Acta Biomaterialia</i> , 2018, 66, 272-281.	8.3	45
20	Piezoelectric Vibration-Type Tactile Sensor Using Elasticity and Viscosity Change of Structure. <i>IEEE Sensors Journal</i> , 2007, 7, 1044-1051.	4.7	40
21	Robust Model-Based Online Fault Detection for Mating Process of Electric Connectors in Robotic Wiring Harness Assembly Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2010, 18, 1207-1215.	5.2	40
22	Construction and evaluation of bacteria-driven liposome. <i>Sensors and Actuators B: Chemical</i> , 2013, 183, 395-400.	7.8	40
23	Bringing the nanolaboratory inside electron microscopes. <i>IEEE Nanotechnology Magazine</i> , 2008, 2, 18-31.	1.3	37
24	Functional gel-microbead manipulated by optical tweezers for local environment measurement in microchip. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 383-390.	2.2	37
25	Design and Control of a Biomimetic Robotic Rat for Interaction With Laboratory Rats. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 1832-1842.	5.8	37
26	Shape-controlled high cell-density microcapsules by electrodeposition. <i>Acta Biomaterialia</i> , 2016, 37, 93-100.	8.3	37
27	Vertical ladder climbing motion with posture control for multi-locomotion robot. , 2008, , .		36
28	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.	2.2	36
29	Automatic Sample Alignment Under Microscopy for 360° Imaging Based on the Nanorobotic Manipulation System. <i>IEEE Transactions on Robotics</i> , 2017, 33, 220-226.	10.3	36
30	Stable impact and contact force control by UAV for inspection of floor slab of bridge. <i>Advanced Robotics</i> , 2018, 32, 1061-1076.	1.8	36
31	Cutting of carbon nanotubes assisted with oxygen gas inside a scanning electron microscope. <i>Applied Physics Letters</i> , 2006, 89, 113104.	3.3	35
32	An adaptive control for CARMA systems using linear neural networks. <i>International Journal of Control</i> , 1992, 56, 483-497.	1.9	34
33	Multicellular Co-Culture in Three-Dimensional Gelatin Methacryloyl Hydrogels for Liver Tissue Engineering. <i>Molecules</i> , 2019, 24, 1762.	3.8	34
34	Multifunctional Noncontact Micromanipulation Using Whirling Flow Generated by Vibrating a Single Piezo Actuator. <i>Small</i> , 2019, 15, e1804421.	10.0	34
35	Vision-based Nano Robotic System for High-throughput Non-embedded Cell Cutting. <i>Scientific Reports</i> , 2016, 6, 22534.	3.3	32
36	Magnetic assembly of microfluidic spun alginate microfibers for fabricating three-dimensional cell-laden hydrogel constructs. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 1169-1180.	2.2	31

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37	A Modified Robotic Rat to Study Rat-Like Pitch and Yaw Movements. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2448-2458.	5.8	31
38	Energy-based swing-back control for continuous brachiation of a multilocomotion robot. International Journal of Intelligent Systems, 2006, 21, 1025-1043.	5.7	30
39	Instantaneous and Quantitative Single Cells Viability Determination Using Dual Nanoprobe Inside ESEM. IEEE Nanotechnology Magazine, 2012, 11, 298-306.	2.0	30
40	A Study on Error Recovery Search Strategies of Electronic Connector Mating for Robotic Fault-Tolerant Assembly. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 81, 257-271.	3.4	30
41	Buckling Nanoneedle for Characterizing Single Cells Mechanics Inside Environmental SEM. IEEE Nanotechnology Magazine, 2011, 10, 226-236.	2.0	29
42	Development of a Small-Sized Quadruped Robotic Rat Capable of Multimodal Motions. IEEE Transactions on Robotics, 2022, 38, 3027-3043.	10.3	28
43	Learning algorithms of layered neural networks via extended Kalman filters. International Journal of Systems Science, 1991, 22, 753-768.	5.5	26
44	Self-Actuating Asymmetric Platinum Catalytic Mobile Nanorobot. IEEE Transactions on Robotics, 2014, 30, 33-39.	10.3	26
45	Characterization of the Resistance and Force of a Carbon Nanotube/Metal Side Contact by Nanomanipulation. Scanning, 2017, 2017, 1-11.	1.5	26
46	Switching Dynamic Modeling and Driving Stability Analysis of Three-Wheeled Narrow Tilting Vehicle. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1309-1322.	5.8	24
47	Behavior modulation of rats to a robotic rat in multi-rat interaction. Bioinspiration and Biomimetics, 2015, 10, 056011.	2.9	24
48	Implementing Rat-Like Motion for a Small-Sized Biomimetic Robot Based on Extraction of Key Movement Joints. IEEE Transactions on Robotics, 2021, 37, 747-762.	10.3	24
49	Direct nano-injection method by nanoprobe insertion based on E-SEM nanorobotic manipulation under hybrid microscope. , 2011, , .		23
50	Touch sensor for micromanipulation with pipette using lead-free (K,Na)(Nb,Ta)O ₃ piezoelectric ceramics. Journal of Applied Physics, 2005, 98, 094505.	2.5	22
51	Development of a Highly Compact Microgripper Capable of Online Calibration for Multisized Microobject Manipulation. IEEE Nanotechnology Magazine, 2018, 17, 657-661.	2.0	22
52	Multiple fuzzy state-value functions for human evaluation through interactive trajectory planning of a partner robot. Soft Computing, 2006, 10, 891-901.	3.6	21
53	Microchip device for measurement of body volume of <i>C. elegans</i> as bioindicator application. Journal of Micro-Nano Mechatronics, 2012, 7, 3-11.	1.0	21
54	Design, Development, and Evaluation of a Pinch-Grasp Haptic Interface. IEEE/ASME Transactions on Mechatronics, 2014, 19, 45-54.	5.8	21

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55	On-chip fabrication of magnetic alginate hydrogel microfibers by multilayered pneumatic microvalves. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 457-468.	2.2	21
56	Manipulation of Flexible Rope Using Topological Model Based on Sensor Information. , 2006, , .		20
57	Photoelastic Stress Analysis Error Quantification in Vasculature Models for Robot Feedback Control. <i>IEEE/ASME Transactions on Mechatronics</i> , 2010, 15, 520-526.	5.8	20
58	Passive Alignment Principle for Robotic Assembly between a ring and a shaft with Extremely Narrow Clearance. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, , 1-1.	5.8	20
59	Energy-optimal gait analysis of quadruped robots. <i>Artificial Life and Robotics</i> , 2002, 6, 120-125.	1.2	19
60	A Mobile Robots PSO-based for Odor Source Localization in Dynamic Advection-Diffusion Environment. , 2006, , .		19
61	Design, fabrication and characterization of compact force sensor using AT-cut quartz crystal resonators. , 2008, , .		19
62	Vibration damping in manipulation of deformable linear objects using sliding mode control. <i>Advanced Robotics</i> , 2014, 28, 157-172.	1.8	18
63	Hand Gesture Modeling and Recognition for Human and Robot Interactive Assembly Using Hidden Markov Models. <i>International Journal of Advanced Robotic Systems</i> , 2015, 12, 48.	2.1	18
64	Real-time <i>in vitro</i> intravascular reconstruction and navigation for endovascular aortic stent grafting. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2016, 12, 648-657.	2.3	18
65	Less-invasive non-embedded cell cutting by nanomanipulation and vibrating nanoknife. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	18
66	3D Construction of Shape-Controllable Tissues through Self-Bonding of Multicellular Microcapsules. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22950-22961.	8.0	18
67	In-situ single cell mechanical characterization of W303 Yeast cells inside Environmental-SEM. , 2007, , .		17
68	Hydrodynamic Tweezers: Trapping and Transportation in Microscale Using Vortex Induced by Oscillation of a Single Piezoelectric Actuator. <i>Sensors</i> , 2018, 18, 2002.	3.8	17
69	Stable camera position control of unmanned aerial vehicle with three-degree-of-freedom manipulator for visual test of bridge inspection. <i>Journal of Field Robotics</i> , 2019, 36, 1212-1221.	6.0	17
70	Structured intelligence for self-organizing manufacturing systems. <i>Journal of Intelligent Manufacturing</i> , 1999, 10, 121-133.	7.3	16
71	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.	2.1	16
72	Intentional dynamic systems: Fundamental concepts and applications. <i>International Journal of Intelligent Systems</i> , 2006, 21, 875-879.	5.7	15

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73	Motion control of omni-directional type cane robot based on human intention. , 2008, , .		15
74	Fault detection algorithm for external thread fastening by robotic manipulator using linear support vector machine classifier. , 2013, , .		15
75	A tetrahedral DNA nanorobot with conformational change in response to molecular trigger. Nanoscale, 2021, 13, 15552-15559.	5.6	15
76	A Study on Active Catheter System. Structure, Experimental Results and Characteristic Evaluation of Active Catheter with Multi D.O.F.. Journal of the Robotics Society of Japan, 1996, 14, 820-835.	0.1	15
77	Catheter Insertion Mechanism and Feedback Control using Magnetic Motion Capture Sensor. , 2006, , .		14
78	â€œZâ€•Shaped Rotational Au/Pt Micro-Nanorobot. Micromachines, 2017, 8, 183.	2.9	14
79	Sleep Quality Estimation based on Chaos Analysis for Heart Rate Variability. IEJ Transactions on Electronics, Information and Systems, 2005, 125, 43-49.	0.2	13
80	Dynamic modeling and simulation of manipulating deformable linear objects. , 2008, , .		13
81	Local nano-injection of fluorescent nano-beads inside C. elegans based on nanomanipulation. , 2012, , .		13
82	Handling of micro objects using phase transition of thermoresponsive polymer. Journal of Micro-Bio Robotics, 2013, 8, 53-64.	2.1	13
83	Motion Transfer Control From Walking to Brachiation Through Vertical Ladder Climbing for a Multi-Locomotion Robot. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1681-1693.	5.8	13
84	A Region of Interest (ROI) Sharing Protocol for Multirobot Cooperation With Distributed Sensing Based on Semantic Stability. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 457-467.	9.3	13
85	Mechatronic Development and Vision Feedback Control of a Nanorobotics Manipulation System inside SEM for Nanodevice Assembly. Sensors, 2016, 16, 1479.	3.8	13
86	Bio-inspired engineering of a perfusion culture platform for guided three-dimensional nerve cell growth and differentiation. Lab on A Chip, 2022, 22, 1006-1017.	6.0	13
87	Electrically Controlled Aquatic Soft Actuators with Desynchronized Actuation and Light-Mediated Reciprocal Locomotion. ACS Applied Materials & Interfaces, 2022, 14, 12936-12948.	8.0	13
88	Design method of brachiation controller based on virtual holonomic constraint. , 2007, , .		12
89	Optimal posture control for stability of intelligent cane robot. , 2012, , .		12
90	Carbon nanotubes pickup by van der Waals force based on nanorobotics manipulation inside SEM. Micro and Nano Letters, 2016, 11, 645-649.	1.3	12

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91	Biped Walking of Magnetic Microrobot in Oscillating Field for Indirect Manipulation of Non-Magnetic Objects. <i>IEEE Nanotechnology Magazine</i> , 2020, 19, 21-24.	2.0	12
92	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.	8.3	12
93	A novel fall prevention scheme for intelligent cane robot by using a motor driven universal joint. , 2011, , .		11
94	Magnetic Micromachine Using Nickel Nanoparticles for Propelling and Releasing in Indirect Assembly of Cell-Laden Micromodules. <i>Micromachines</i> , 2019, 10, 370.	2.9	11
95	Sliding mode control and a variable structure system observer as a dual problem for systems with non-linear uncertainties. <i>International Journal of Systems Science</i> , 1992, 23, 1991-2001.	5.5	10
96	Vortex-Driven Rotation for Three-Dimensional Imaging Under Microscopy. <i>IEEE Nanotechnology Magazine</i> , 2018, 17, 688-691.	2.0	10
97	On-Chip Construction of Multilayered Hydrogel Microtubes for Engineered Vascular-Like Microstructures. <i>Micromachines</i> , 2019, 10, 840.	2.9	10
98	Development of Cultured Muscles with Tendon Structures for Modular Bio-Actuators. <i>Micromachines</i> , 2021, 12, 379.	2.9	10
99	Learning Algorithm for a Brachiating Robot. <i>Applied Bionics and Biomechanics</i> , 2003, 1, 57-66.	1.1	9
100	3D Manipulation of lipid nanotubes using laser trapped functional gel microbeads. , 2007, , .		9
101	Evolutionary artificial potential field method based manipulator path planning for safe robotic assembly. , 2009, , .		9
102	Catheter Insertion Reference Trajectory Construction Method Using Photoelastic Stress Analysis for Quantification of <i>Respect for Tissue</i> During Endovascular Surgery Simulation. <i>International Journal of Optomechatronics</i> , 2011, 5, 322-339.	6.6	9
103	Control of intelligent cane robot considering usage of ordinary cane. , 2013, , .		9
104	Hierarchies of octrees for efficient 3D mapping. , 2011, , .		9
105	Model-based Robust Online Fault Detection for Mating Process of Electric Connectors in Robotic Wiring Harness Assembly Systems. , 2007, , .		8
106	Analysis of Relationship between limb length and joint load in quadruped walking on the slope. , 2008, , .		8
107	Semi-closed microchip for probe manipulation and the target cell harvesting. , 2009, , .		8
108	Hybrid vision-force guided fault tolerant robotic assembly for electric connectors. , 2009, , .		8

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109	High speed cell patterning by dielectrophoresis and on-chip fabrication of microstructure embedding patterned cells. , 2012, , .		8
110	i-Hand: An intelligent robotic hand for fast and accurate assembly in electronic manufacturing. , 2012, , .		8
111	Micromanipulation for Coiling Microfluidic Spun Alginate Microfibers by Magnetically Guided System. IEEE Robotics and Automation Letters, 2016, 1, 808-813.	5.1	8
112	Guest Editorial Neuro-Robotics Systems: Sensing, Cognition, Learning, and Control. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 145-147.	3.8	8
113	Hierarchies of octrees for efficient 3D mapping. , 2011, , .		8
114	A Study on Cellular Robotic System. A Realization of a Robotic System Capable of Adaptation, Self-organization, and Self-evolution.. Journal of the Robotics Society of Japan, 1994, 12, 116-132.	0.1	8
115	Intelligent robotic systems: Adaptation, learning, and evolution. Artificial Life and Robotics, 1999, 3, 32-38.	1.2	7
116	Sensor Fusion Based Fuzzy Rules Learning for Humanitarian Mine Detection. , 2006, , .		7
117	Modeling for Mating Process of Electric Connectors in Robotic Wiring Harness Assembly Systems. , 2007, , .		7
118	Optimal braking control for UW-Car using sliding mode. , 2009, , .		7
119	Nanofork and Line-patterned Substrate for measuring single cells adhesion force inside ESEM. , 2010, , .		7
120	Evaluation of local stiffness distribution for biological organism by comb-nanoprobes. , 2010, , .		7
121	Adaptive sliding mode control for manipulating deformable linear object with input saturation. , 2012, , .		7
122	Optimal control of energetically efficient ladder decent motion with internal stress adjustment using key joint method. , 2012, , .		7
123	Selection of two arm-swing strategies for bipedal walking to enhance both stability and efficiency. Advanced Robotics, 2016, 30, 386-401.	1.8	7
124	UAV with manipulator for bridge inspection " Hammering system for mounting to UAV. , 2017, , .		7
125	Assembly strategy modeling and selection for human and robot coordinated cell assembly. , 2011, , .		7
126	Structure Organization of Hierarchical Fuzzy Model using Genetic Algorithm. Journal of Japan Society for Fuzzy Theory and Systems, 1995, 7, 988-996.	0.0	6

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127	Patient-Tailored Cerebral Arterial Model for Simulating Neurovascular Intervention (1st Report, In) Tj ETQq1 1 0.784314 rgBT /Overload Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2005, 71, 2362-2369.	0.2	6
128	Piezoelectric Vibration-Type Tactile Sensor with Wide Measurement Range Using Elasticity and Viscosity Change. , 2006, , .		6
129	Photoelastic Stress Analysis on Patient-Specific Anatomical Model of Cerebral Artery. , 2007, , .		6
130	Fault-tolerant mating process of electric connectors in robotic wiring harness assembly systems. , 2008, , .		6
131	Single cell penetration using nano-pipette by E-SEM nanorobotic manipulation system. , 2009, , .		6
132	Development of the compact control system using of neck EMG signal for welfare applications. , 2010, , .		6
133	Cell-cell adhesion force measurement using nano picker via nanorobotic manipulators inside ESEM. , 2010, , .		6
134	Skill-based vibration suppression in manipulation of deformable linear objects. , 2011, , .		6
135	Nano-gyroscope assembly using Carbon Nanotube based on nanorobotic manipulation. , 2011, , .		6
136	A genetic algorithm for subtask allocation within human and robot coordinated assembly. , 2012, , .		6
137	Transition Motion from Ladder Climbing to Brachiation with Optimal Load-Allocation Control. Advanced Robotics, 2012, 26, 1075-1098.	1.8	6
138	Bacterial sheet-powered rotation of a micro-object. Sensors and Actuators B: Chemical, 2016, 222, 1220-1225.	7.8	6
139	Light weight manipulator on UAV system for infrastructure inspection. , 2017, , .		6
140	Application of Environmental Scanning Electron Microscope-Nanomanipulation System on Spheroplast Yeast Cells Surface Observation. Scanning, 2017, 2017, 1-7.	1.5	6
141	UAV with Manipulator for Bridge Inspection. Journal of the Robotics Society of Japan, 2018, 36, 57-65.	0.1	6
142	On-Chip Fabrication of Cell-Attached Microstructures using Photo-Cross-Linkable Biodegradable Hydrogel. Journal of Functional Biomaterials, 2020, 11, 18.	4.4	6
143	Large-scale Surface Shape Sensing with Learning-based Computational Mechanics. Advanced Intelligent Systems, 2021, 3, 2100089.	6.1	6
144	Control of the Lateral Motion in Biped Walking Based on the Assumption of Point-contact. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2006, 72, 1832-1839.	0.2	5

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145	Self-deployment algorithm for mobile sensor network based on connection priority criteria with obstacle avoidance. , 2007, , .		5
146	Three-dimensional visualization of photoelastic stress analysis for catheter insertion robot. , 2010, , .		5
147	3-D biped walking over rough terrain based on the assumption of point-contact. , 2010, , .		5
148	Modeling and control of a novel narrow vehicle. , 2010, , .		5
149	Nano knife fabrication and calibration for single cell cutting inside environmental SEM. , 2010, , .		5
150	Single cell adhesion force measurement for viability identification using nanorobotic manipulation system inside ESEM. , 2011, , .		5
151	Tungsten/Platinum Hybrid Nanowire Growth via Field Emission Using Nanorobotic Manipulation. Journal of Nanotechnology, 2011, 2011, 1-8.	3.4	5
152	High speed laser manipulation of on-chip fabricated microstructures by replacing solution inside microfluidic channel. , 2011, , .		5
153	Auto nanomanipulation system for single cell mechanical property characterization inside an environmental SEM. , 2012, , .		5
154	Locomotion selection of Multi-Locomotion Robot based on Falling Risk and moving efficiency. , 2012, , .		5
155	Catheter manipulation training system based on quantitative measurement of catheter insertion and rotation. Advanced Robotics, 2014, 28, 1321-1328.	1.8	5
156	Motion evaluation of a modified multi-link robotic rat. , 2017, , .		5
157	High-precision microinjection of microbeads into C. elegans trapped in a suction microchannel. , 2017, , .		5
158	Design of Crawling Motion for a Biped Walking Humanoid with 3-DoF Rigid-Flexible Waist. , 2018, , .		5
159	Development of an MEMS based biomimetic whisker sensor for tactile sensing. , 2019, , .		5
160	Learning in robotics. Reinforcement Learning for Motion Control of Real Robots.. Journal of the Robotics Society of Japan, 1995, 13, 82-88.	0.1	5
161	Differentiation and Monitoring of Cells Using a Biochip for Regenerative Medicine (Differentiation of) Tj ETQq1 1 0.784314 rgBT /Over the Japan Society of Mechanical Engineers, Part C, 2005, 71, 3239-3245.	0.2	4
162	A Mobile Robots PSO-Based for Odor Source Localization in Extreme Dynamic Advection-Diffusion Environment with Obstacle. , 2006, , .		4

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163	Environment-Adaptive Antipersonnel Mine Detection System - Advanced Mine Sweeper. , 2006, , .		4
164	Catheter insertion path reconstruction with autonomous system for endovascular surgery. , 2007, , .		4
165	Fluorescence Visualization of Carbon Nanotubes Using Quenching Effect for Nanomanipulation. , 2007, , .		4
166	Fabrication of Cell-Adhesion Surface and Capillary Vessel Model by Photolithography. , 2007, , .		4
167	On-chip fabrication and assembly of rotational microstructures. , 2009, , .		4
168	PDAC-based underactuated 3D bipedal walking - Stabilization of PDAC constants and walking direction control -. , 2009, , .		4
169	Semi-Closed Microchip for Probe Manipulation and Its Application for Single Cell Analysis(Mechanical) Tj ETQq1 1 0.784314 rgBT /Overl Engineers, Part C, 2009, 75, 3261-3266.	0.2	4
170	Soft handling probe using thermal gel for single cells. , 2010, , .		4
171	Robotic wiring harness assembly system for fault-tolerant electric connectors mating. , 2010, , .		4
172	Individual single bacterium attachment on microobject using optical tweezers for bacteria-driven microrobots. , 2010, , .		4
173	Motion control of bacteria-driven micro objects by Nano/Micro pipettes. , 2010, , .		4
174	Selective nano-injection using nano-probe based on Nanomanipulation under hybrid microscope. , 2011, , .		4
175	Characterization of oscillating nano knife for single cell cutting by nanorobotic manipulation system inside ESEM. , 2011, , .		4
176	Modeling and design of magnetic sugar particles manipulation system for fabrication of vascular scaffold. , 2011, , .		4
177	2-D optical encoding of catheter motion and cyber-physical system for technical skills measurement and quantitative evaluation in endovascular surgery. , 2012, , .		4
178	Dynamic model of three wheeled narrow tilting vehicle and corresponding experiment verification. , 2012, , .		4
179	Stress analysis during micro-coil deployment in membranous model of saccular aneurysm with bleb. , 2012, , .		4
180	Contact characterization between multi-walled carbon nanotubes and metal electrodes. , 2015, , .		4

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181	Optimal use of arm-swing for bipedal walking control. , 2015, , .		4
182	Non-contact high-speed rotation of micro targets by vibration of single piezoelectric actuator. , 2016, , .		4
183	Robotics-based micro-reeling of magnetic microfibers to fabricate helical structure for smooth muscle cells culture. , 2017, , .		4
184	Automated Sorting of Rare Cells Based on Autofocusing Visual Feedback in Fluorescence Microscopy. , 2019, , .		4
185	MOVING MECHANISM AND CONTROL METHOD FOR MICRO ROBOT (EXPERIMENT OF TURNING CONTROL). , 2010, , .		4
186	Noncontact 3-D Orientation Control at Microscale: Hydrodynamic Out-of-Plane Rotation and In-Plane Rotation by Compacted Rotational Stage. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4807-4818.	5.8	4
187	Self-organizing control strategy for group robotics. Advanced Robotics, 1995, 10, 637-658.	1.8	3
188	A HUMANLIKE GRASPING FORCE PLANNER FOR OBJECT MANIPULATION BY ROBOT MANIPULATORS. Cybernetics and Systems, 2003, 34, 645-662.	2.5	3
189	Nanolaboratory - a prototype nanomanufacturing system. , 0, , .		3
190	In-situ formation of a gel microbead for laser micromanipulation of microorganisms, DNA and virus. , 2006, , .		3
191	Differentiation and Monitoring of Cells Using a Biochip for Regenerative Medicine. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2006, 49, 852-858.	0.3	3
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