Ning Xi

List of Publications by Year
in descending order

424	4,700	172457	189892
papers	citations	29 h-index	50 g-index

426	426	426	3619
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Evolution of MAC Protocols in Wireless Sensor Networks: A Survey. IEEE Communications Surveys and Tutorials, 2013, 15, 101-120.	39.4	431
2	Development of Augmented Reality System for AFM-Based Nanomanipulation. IEEE/ASME Transactions on Mechatronics, 2004, 9, 358-365.	5.8	199
3	MSU Jumper: A Single-Motor-Actuated Miniature Steerable Jumping Robot. IEEE Transactions on Robotics, 2013, 29, 602-614.	10.3	131
4	A hybrid deep architecture for robotic grasp detection. , 2017, , .		118
5	â€œVideolizedâ€•Atomic Force Microscopy for Interactive Nanomanipulation and Nanoassembly. IEEE Nanotechnology Magazine, 2005, 4, 605-615.	2.0	92
6	Atomic Force Microscopy in Characterizing Cell Mechanics for Biomedical Applications: A Review. IEEE Transactions on Nanobioscience, 2017, 16, 523-540.	3.3	88
7	Supermedia-enhanced internet-based telerobotics. Proceedings of the IEEE, 2003, 91, 396-421.	21.3	86
8	CAD-guided automated nanoassembly using atomic force microscopy-based nonrobotics. IEEE Transactions on Automation Science and Engineering, 2006, 3, 208-217.	5.2	80
9	Development of micro- and nanorobotics: A review. Science China Technological Sciences, 2019, 62, 1-20.	4.0	74
10	MSU Tailbot: Controlling Aerial Maneuver of a Miniature-Tailed Jumping Robot. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2903-2914.	5.8	73
11	Advances in atomic force microscopy for single-cell analysis. Nano Research, 2019, 12, 703-718.	10.4	66
12	Design, Fabrication, and Visual Servo Control of an XY Parallel Micromanipulator With Piezo-Actuation. IEEE Transactions on Automation Science and Engineering, 2009, 6, 710-719.	5.2	54
13	Tool Path Planning for Compound Surfaces in Spray Forming Processes. IEEE Transactions on Automation Science and Engineering, 2005, 2, 240-249.	5.2	52
14	Asymmetric Hysteresis Modeling and Compensation Approach for Nanomanipulation System Motion Control Considering Working-Range Effect. IEEE Transactions on Industrial Electronics, 2017, 64, 5513-5523.	7.9	51
15	Automated tool trajectory planning of industrial robots for painting composite surfaces. International Journal of Advanced Manufacturing Technology, 2008, 35, 680-696.	3.0	47
16	Adaptable End Effector for Atomic Force Microscopy Based Nanomanipulation. IEEE Nanotechnology Magazine, 2006, 5, 628-642.	2.0	46
17	AFM-Based Robotic Nano-Hand for Stable Manipulation at Nanoscale. IEEE Transactions on Automation Science and Engineering, 2013, 10, 285-295.	5.2	46
18	Nanoscale monitoring of drug actions on cell membrane using atomic force microscopy. Acta Pharmacologica Sinica, 2015, 36, 769-782.	6.1	46

#	Article	IF	Citations
19	Cooperative Teleoperation of a Multirobot System With Force Reflection via Internet. IEEE/ASME Transactions on Mechatronics, 2004, 9, 661-670.	5.8	44
20	A Robust Surface Coding Method for Optically Challenging Objects Using Structured Light. IEEE Transactions on Automation Science and Engineering, 2014, 11, 775-788.	5.2	43
21	Experimental study and modeling of atomic-scale friction in zigzag and armchair lattice orientations of MoS₂. Science and Technology of Advanced Materials, 2016, 17, 189-199.	6.1	43
22	Atomic force microscopy for revealing micro/nanoscale mechanics in tumor metastasis: from single cells to microenvironmental cues. Acta Pharmacologica Sinica, 2021, 42, 323-339.	6.1	43
23	Fuzzy Controller for Wall-Climbing Microrobots. IEEE Transactions on Fuzzy Systems, 2004, 12, 466-480.	9.8	40
24	On-Line Path Generation for Robotic Deburring of Cast Aluminum Wheels. , 2006, , .		40
25	Automated robot trajectory planning for spray painting of free-form surfaces in automotive manufacturing. , 0, , .		39
26	Nanoscale imaging and force probing of biomolecular systems using atomic force microscopy: from single molecules to living cells. Nanoscale, 2017, 9, 17643-17666.	5.6	39
27	Closed-loop optimal control-enabled piezoelectric microforce sensors. IEEE/ASME Transactions on Mechatronics, 2006, 11, 420-427.	5.8	38
28	A miniature 25 grams running and jumping robot. , 2014, , .		38
29	Connectivity and bandwidthâ€aware realâ€time exploration in mobile robot networks. Wireless Communications and Mobile Computing, 2013, 13, 847-863.	1.2	36
30	CAD-guided sensor planning for dimensional inspection in automotive manufacturing. IEEE/ASME Transactions on Mechatronics, 2003, 8, 372-380.	5.8	32
31	Progress in Nanorobotics for Advancing Biomedicine. IEEE Transactions on Biomedical Engineering, 2021, 68, 130-147.	4.2	32
32	Development of a controllable and continuous jumping robot. , 2011, , .		31
33	Teaching Robots New Actions through Natural Language Instructions. , 2014, , .		31
34	Cellular level robotic surgery: Nanodissection of intermediate filaments in live keratinocytes. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 137-145.	3.3	31
35	Engineering the band gap of carbon nanotube for infrared sensors. Applied Physics Letters, 2009, 95, .	3.3	30
36	Atomic force microscopy studies on cellular elastic and viscoelastic properties. Science China Life Sciences, 2018, 61, 57-67.	4.9	30

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37	Action synchronization and control of Internet based telerobotic systems. , 0, , .		29
38	Effects of methotrexate on the viscoelastic properties of single cells probed by atomic force microscopy. Journal of Biological Physics, 2016, 42, 551-569.	1.5	28
39	Design and Analysis of Internet-Based Tele-Coordinated Multi-Robot Systems. Autonomous Robots, 2003, 15, 237-254.	4.8	27
40	Analysis and design of non-time based motion controller for mobile robots. , 0, , .		26
41	Development of a miniature self-stabilization jumping robot. , 2009, , .		26
42	Imaging and Force Recognition of Single Molecular Behaviors Using Atomic Force Microscopy. Sensors, 2017, 17, 200.	3.8	26
43	Automated CAD-guided robot path planning for spray painting of compound surfaces. , 0, , .		25
44	MIDS: micro input devices system using MEMS sensors. , 0, , .		25
45	Augmented reality system for real-time nanomanipulation. , 0, , .		25
46	Applications of Micro/Nano Automation Technology in Detecting Cancer Cells for Personalized Medicine. IEEE Nanotechnology Magazine, 2017, 16, 217-229.	2.0	25
47	Video rate Atomic Force Microscopy (AFM) imaging using compressive sensing. , 2011, , .		24
48	Automated Robot Tool Trajectory Connection for Spray Forming Process. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, .	2.2	24
49	Atomic Force Microscopy in Probing Tumor Physics for Nanomedicine. IEEE Nanotechnology Magazine, 2019, 18, 83-113.	2.0	24
50	Cutting forces related with lattice orientations of graphene using an atomic force microscopy based nanorobot. Applied Physics Letters, 2012, 101, .	3.3	23
51	Saliency-Guided Detection of Unknown Objects in RGB-D Indoor Scenes. Sensors, 2015, 15, 21054-21074.	3.8	22
52	Assembly of nanostructure using AFM based nanomanipulation system. , 2004, , .		21
53	Infrared detection using an InSb nanowire. , 2009, , .		21
54	Combined Inverse Kinematic and Static Analysis and Optimal Design of a Cable-Driven Mechanism with a Spring Spine. Advanced Robotics, 2012, 26, 923-946.	1.8	21

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55	Compressive Feedback-Based Motion Control for Nanomanipulationâ€"Theory and Applications. IEEE Transactions on Robotics, 2014, 30, 103-114.	10.3	21
56	Effects of temperature and cellular interactions on the mechanics and morphology of human cancer cells investigated by atomic force microscopy. Science China Life Sciences, 2015, 58, 889-901.	4.9	21
57	Regulation of C2C12 Differentiation and Control of the Beating Dynamics of Contractile Cells for a Muscle-Driven Biosyncretic Crawler by Electrical Stimulation. Soft Robotics, 2018, 5, 748-760.	8.0	21
58	Research progress in quantifying the mechanical properties of single living cells using atomic force microscopy. Science Bulletin, 2014, 59, 4020-4029.	1.7	20
59	A Miniature Water Surface Jumping Robot. IEEE Robotics and Automation Letters, 2017, 2, 1272-1279.	5.1	20
60	Performance Investigation of Multilayer MoS₂ Thin-Film Transistors Fabricated via Mask-free Optically Induced Electrodeposition. ACS Applied Materials & Interfaces, 2017, 9, 8361-8370.	8.0	20
61	Bioinspired Musculoskeletal Model-based Soft Wrist Exoskeleton for Stroke Rehabilitation. Journal of Bionic Engineering, 2020, 17, 1163-1174.	5.0	20
62	Peak force tapping atomic force microscopy for advancing cell and molecular biology. Nanoscale, 2021, 13, 8358-8375.	5.6	20
63	Unified model approach for planning and control of mobile manipulators. , 0, , .		19
64	Bionanomanipulation Using Atomic Force Microscopy. IEEE Nanotechnology Magazine, 2010, 4, 9-12.	1.3	19
65	AFM analysis of the multiple types of molecular interactions involved in rituximab lymphoma therapy on patient tumor cells and NK cells. Cellular Immunology, 2014, 290, 233-244.	3.0	19
66	Nanoscale characterization of dynamic cellular viscoelasticity by atomic force microscopy with varying measurement parameters. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 82, 193-201.	3.1	19
67	3D nanomanipulation using atomic force microscopy. , 0, , .		18
68	A high sensitivity force sensor for microassembly: design and experiments. , 0, , .		18
69	Robot Path Planning for Dimensional Measurement in Automotive Manufacturing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2005, 127, 420-428.	2.2	18
70	Internet based robots: applications, impacts, challenges and future directions. , 0, , .		18
71	Single carbon nanotube based photodiodes for infrared detection. , 2007, , .		18
72	Navigating a Miniature Crawler Robot for Engineered Structure Inspection. IEEE Transactions on Automation Science and Engineering, 2008, 5, 368-373.	5.2	18

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73	Dual-arm robot assembly system for 3C product based on vision guidance. , 2016, , .		18
74	AFM Tip Position Control <italic>in situ</italic> for Effective Nanomanipulation. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2825-2836.	5.8	18
75	DSP solution for wall-climber micro-robot control using TMS320LF2407 chip. , 0, , .		17
76	Modeling and control of an under-actuated miniature crawler robot. , 0, , .		17
77	Improving efficiency of Internet based teleoperation using network QoS. , 0, , .		17
78	Automated process for selection of carbon nanotube by electronic property using dielectrophoretic manipulation. Journal of Micro-Nano Mechatronics, 2008, 4, 37-48.	1.0	17
79	Controlling aerial maneuvering of a miniature jumping robot using its tail. , 2013, , .		17
80	Nanorobotic Investigation Identifies Novel Visual, Structural and Functional Correlates of Autoimmune Pathology in a Blistering Skin Disease Model. PLoS ONE, 2014, 9, e106895.	2.5	17
81	Nanotopographical Surfaces for Regulating Cellular Mechanical Behaviors Investigated by Atomic Force Microscopy. ACS Biomaterials Science and Engineering, 2019, 5, 5036-5050.	5.2	17
82	Automated CAD-guided automobile part dimensional inspection. , 0, , .		16
83	Dynamic Model for Characterizing Contractile Behaviors and Mechanical Properties of a Cardiomyocyte. Biophysical Journal, 2018, 114, 188-200.	0.5	16
84	A general framework for automatic CAD-guided tool planning for surface manufacturing. , 0, , .		15
85	Coordinated multi-robot real-time exploration with connectivity and bandwidth awareness. , 2010, , .		15
86	Progress of AFM single-cell and single-molecule morphology imaging. Science Bulletin, 2013, 58, 3177-3182.	1.7	15
87	Task driven dynamic QoS based bandwidth allocation for real-time teleoperation via the Internet. , 0, , .		14
88	Detecting CD20-Rituximab interaction forces using AFM single-molecule force spectroscopy. Science Bulletin, 2011, 56, 3829-3835.	1.7	14
89	Sensor-based redundancy resolution for a nonholonomic mobile manipulator. , 2012, , .		14
90	A Humanoid Neck System Featuring Low Motion-Noise. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 67, 101-116.	3.4	14

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91	Coordinated motion control of a nonholonomic mobile manipulator for accurate motion tracking. , 2014, , .		14
92	Development of supermedia interface for telediagnostics of breast pathology. , 0, , .		13
93	Development and sensitivity analysis of a portable calibration system for joint offset of industrial robot. , 2009, , .		13
94	Leveraging Height in a Jumping Sensor Network to Extend Network Coverage. IEEE Transactions on Wireless Communications, 2012, 11, 1840-1849.	9.2	13
95	Progress in measuring biophysical properties of membrane proteins with AFM single-molecule force spectroscopy. Science Bulletin, 2014, 59, 2717-2725.	1.7	13
96	Multiparametric atomic force microscopy imaging of single native exosomes. Acta Biochimica Et Biophysica Sinica, 2021, 53, 385-388.	2.0	13
97	A case study of 3D stereoscopic vs. 2D monoscopic tele-reality in real-time dexterous teleoperation. , 2005, , .		12
98	High precision PSD guided robot localization: Design, mapping, and position control. , 2007, , .		12
99	High-accuracy visual/PSD hybrid servoing of robotic manipulator. , 2008, , .		12
100	Design of single-operator-multi-robot teleoperation systems with random communication delay. , 2011, , .		12
101	Quality of teleoperator adaptive control for telerobotic operations. International Journal of Robotics Research, 2014, 33, 1765-1781.	8.5	12
102	Bio-inspired wearable soft upper-limb exoskeleton robot for stroke survivors. , 2017, , .		12
103	On the Measurement of Energy Dissipation of Adhered Cells with the Quartz Microbalance with Dissipation Monitoring. Analytical Chemistry, 2018, 90, 10340-10349.	6.5	12
104	A bio-syncretic phototransistor based on optogenetically engineered living cells. Biosensors and Bioelectronics, 2021, 178, 113050.	10.1	12
105	Transparency and synchronization in supermedia enhanced Internet-based teleoperation. , 0, , .		11
106	Modeling of 3-d interactive forces in nanomanipulation. , 0, , .		11
107	Registration of Point Clouds for 3D Shape Inspection. , 2006, , .		11
108	Shifted gamma distribution and long-range prediction of Round Trip Timedelay for Internet-based teleoperation. , 2009, , .		11

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109	Visual servoing using non-vector space control theory. , 2012, , .		11
110	Development of a position sensitive device and control method for automated robot calibration. , 2013, , .		11
111	Friction anisotropy dependence on lattice orientation of graphene. Science China: Physics, Mechanics and Astronomy, 2014, 57, 663-667.	5.1	11
112	Rapid recognition and functional analysis of membrane proteins on human cancer cells using atomic force microscopy. Journal of Immunological Methods, 2016, 436, 41-49.	1.4	11
113	The dynamic interactions between chemotherapy drugs and plasmid DNA investigated by atomic force microscopy. Science China Materials, 2017, 60, 269-278.	6.3	11
114	Task Space Motion Control for AFM-Based Nanorobot Using Optimal and Ultralimit Archimedean Spiral Local Scan. IEEE Robotics and Automation Letters, 2020, 5, 282-289.	5.1	11
115	Integrated sensing and control of mobile manipulators. , 0, , .		10
116	High sensitivity 2-D force sensor for assembly of surface MEMS devices. , 0, , .		10
117	Multiple vehicle systems for sensor network area coverage. , 0, , .		10
118	The modeling and experiments of a PVDF mirco-force sensor. , 2008, , .		10
119	Automated data processing for a rapid 3D surface inspection system. , 2008, , .		10
120	Design and testing of a controllable miniature jumping robot. , 2010, , .		10
121	Controlling telerobotic operations adaptive to quality of teleoperator and task dexterity. , 2011, , .		10
122	Mutation analysis models for visual servoing in nanomanipulations. , 2011, , .		10
123	Non-vector space control for nanomanipulations based on compressive feedbacks. , 2012, , .		10
124	Stochastic Approach for Feature-Based Tip Localization and Planning in Nanomanipulations. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1643-1654.	5.2	10
125	Modeling, control, and motion planning of a climbing microrobot. Integrated Computer-Aided Engineering, 2004, 11, 289-307.	4.6	9
126	Packaging carbon nanotube based infrared detector. , 2007, , .		9

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127	Di-electrophoresis assembly and fabrication of SWCNT field-effect transistor. Science Bulletin, 2009, 54, 4451-4457.	9.0	9
128	An automated method to calibrate industrial robot joint offset using virtual line-based single-point constraint approach. , 2009, , .		9
129	Stable Nanomanipulation Using Atomic Force Microscopy: A virtual nanohand for a robotic nanomanipulation system.. IEEE Nanotechnology Magazine, 2013, 7, 6-11.	1.3	9
130	A Review of Nanoscale Characterizing Individual DNA Behaviors Using Atomic Force Microscopy. IEEE Nanotechnology Magazine, 2018, 17, 920-933.	2.0	9
131	Tunable Hybrid Biopolymeric Hydrogel Scaffolds Based on Atomic Force Microscopy Characterizations for Tissue Engineering. IEEE Transactions on Nanobioscience, 2019, 18, 597-610.	3.3	9
132	Nanoscale Multiparametric Imaging of Peptide-Assembled Nanofibrillar Hydrogels by Atomic Force Microscopy. IEEE Nanotechnology Magazine, 2019, 18, 315-328.	2.0	9
133	Calibration of a micromanipulation system. , 0, , .		8
134	Multi-objective optimal robot path planning in manufacturing. , 0, , .		8
135	Planning and Control for Automated Nanorobotic Assembly. , 0, , .		8
136	Development of dynamic inspection methods for dimensional measurement of automotive body parts. , 0, , .		8
137	On-line sensing and display in Atomic Force Microscope based nanorobotic manipulation. , 2007, , .		8
138	Research on the reconstruction of fast and accurate AFM probe model. Science Bulletin, 2010, 55, 2750-2754.	1.7	8
139	Dielectrophoretic assembly and atomic force microscopy modification of reduced graphene oxide. Journal of Applied Physics, 2011, 110, 114515.	2.5	8
140	A Robot-Assisted Back-Imaging Measurement System for Transparent Glass. IEEE/ASME Transactions on Mechatronics, 2012, 17, 779-788.	5.8	8
141	Mapping CD20 molecules on the lymphoma cell surface using atomic force microscopy. Science Bulletin, 2013, 58, 1516-1519.	1.7	8
142	Single-cell membrane drug delivery using porous pen nanodeposition. Nanoscale, 2018, 10, 12704-12712.	5.6	8
143	Design of an MRI compatible haptic interface. , 2011, , .		8
144	Industrial Robot Calibration Using a Virtual Linear Constraint. International Journal on Smart Sensing and Intelligent Systems, 2012, 5, 987-1001.	0.7	8

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145	3D nano forces sensing for an AFM based nanomanipulator. , 0, , .		7
146	Calibration of AFM based nanomanipulation system. , 2004, , .		7
147	Improving the Operation Efficiency of Supermedia Enhanced Internet Based Teleoperation via an Overlay Network. , 0, , .		7
148	Force Measurement of Embryonic System Using In Situ PVDF Piezoelectric Sensor. , 2006, , .		7
149	Modeling dielectrophoretic force for manipulating carbon nanotubes (CNTs). , 2007, , .		7
150	Fabrication and Experimental Testing of Individual Multi-walled Carbon Nanotube (CNT) based Infrared Sensors. , 2007, , .		7
151	Measurement of Cationic and Intracellular Modulation of Integrin Binding Affinity by AFM-Based Nanorobot. Biophysical Journal, 2013, 105, 40-47.	0.5	7
152	Perceptive feedback for natural language control of robotic operations. , 2014, , .		7
153	Data correlation approach for slippage detection in robotic manipulations using tactile sensor array. , 2015, , .		7
154	Non-time based tracking controller for mobile robots. , 0, , .		6
155	Development of a force-reflection controlled micro underwater actuator. , 0, , .		6
156	Robot trajectory integration for painting automotive parts with multiple patches. , 0, , .		6
157	Modeling and design of mobile surveillance networks using a mutational analysis approach. , 2005, , .		6
158	Development of pneumatic end effector for micro robotic manipulators. , 0, , .		6
159	Integrated Process for Measurement of Free-Form Automotive Part Surface Using a Digital Area Sensor. , 0, , .		6
160	Development and Control of Compliant Hybrid Joints for Human-Symbiotic Mobile Manipulators. International Journal of Advanced Robotic Systems, 2007, 4, 3.	2.1	6
161	Hopping sensor relocation in rugged terrains. , 2009, , .		6
162	CNT infrared detectors using Schottky barriers and p-n junctions based FETs. , 2009, , .		6

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163	An online motion planning algorithm for a 7DOF redundant manipulator. , 2010, , .		6
164	Feature referenced tip localization enhanced by probability motion model for AFM based nanomanipulations. , 2011, , .		6
165	Stability analysis for Internet based teleoperated robot using prediction control. , 2011, , .		6
166	A single motor actuated miniature steerable jumping robot. , 2012, , .		6
167	Online identification of quality of teleoperator (QoT) for performance improvement of telerobotic operations. , 2012, , .		6
168	Hand-arm coordination for a tomato harvesting robot based on commercial manipulator. , 2013, , .		6
169	High precision positioning control for SPM based nanomanipulation: A robust adaptive model reference control approach. , 2014, , .		6
170	Effect of training on the quality of teleoperator (QoT). , 2015, , .		6
171	Signal reconstruction of the slow wave and spike potential from electrogastrogram. Bio-Medical Materials and Engineering, 2015, 26, S1515-S1521.	0.6	6
172	Online Determination of Graphene Lattice Orientation Through Lateral Forces. Nanoscale Research Letters, 2016, 11, 353.	5.7	6
173	Program robots manufacturing tasks by natural language instructions. , 2016, , .		6
174	Applications of Atomic Force Microscopy in Exploring Drug Actions in Lymphoma-Targeted Therapy at the Nanoscale. BioNanoScience, 2016, 6, 22-32.	3.5	6
175	Atomic Force Microscopy as Nanorobot. Methods in Molecular Biology, 2011, 736, 485-503.	0.9	6
176	The Emergence of AFM Applications to Cell Biology: How new technologies are facilitating investigation of human cells in health and disease at the nanoscale. Journal of Nanoscience Letters, 2011, 1`, 87-101.	1.0	6
177	Integration of Heterogeneity for Human-Friendly Robotic Operations. Journal of Intelligent and Robotic Systems: Theory and Applications, 1999, 25, 281-293.	3.4	5
178	Tracking control of nonholonomic mobile robots. , 0, , .		5
179	Real-time bilateral control of Internet-based teleoperation. , 0, , .		5
180	Adaptive motion control of manipulators with uncalibrated visual feedback. , 0, , .		5

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181	Motion planning of a bipedal miniature crawling robot in hybrid configuration space. , 0, , .		5
182	Multi-sensor referenced gait control of a miniature climbing robot. , 0, , .		5
183	Integration of sensing, computation, communication and cooperation for distributed mobile sensor networks. , 0, , .		5
184	Collision-Tolerant Control for Hybrid Joint based Arm of Nonholonomic Mobile Manipulator in Human-Robot Symbiotic Environments. , 0, , .		5
185	Development of an automatic optical measurement system for automotive part surface inspection. , 0, , .		5
186	Atomic Force Microscopy Sensing Using Multiple Modes. , 2006, , .		5
187	Recursive Measurement Process for Improving Accuracy of Dimensional Inspection of Automotive Body Parts. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	5
188	Automated process for manufacturing carbon nanotube (CNT) based nano devices. , 2007, , .		5
189	Event-based predictive control strategy for teleoperation via Internet. , 2008, , .		5
190	AFM based anodic oxidation and its application to oxidative cutting and welding of CNT. Science in China Series D: Earth Sciences, 2009, 52, 3149-3157.	0.9	5
191	Modeling and control of wheeled mobile robot in constrained environment based on hybrid control framework. , 2009, , .		5
192	Cutting graphene using an atomic force microscope based nanorobot. , 2010, , .		5
193	A probabilistic approach for on-line positioning in nano manipulations. , 2010, , .		5
194	Image based approach to obstacle avoidance in mobile manipulators. , 2011, , .		5
195	Coordinated formation control for multi-robot systems with communication constraints. , 2011, , .		5
196	Combined kinematic and static analysis of a cable-driven manipulator with a spring spine. , 2011, , .		5
197	Passive scattering transform bilateral teleoperation for an Internet-based mobile robot. , 2012, , .		5
198	Investigating the morphology and mechanical properties of blastomeres with atomic force microscopy. Surface and Interface Analysis, 2013, 45, 1193-1196.	1.8	5

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199	Coordination of a nonholonomic mobile platform and an on-board manipulator. , 2014, , .		5
200	Modeling robotic operations controlled by natural language. Control Theory and Technology, 2017, 15, 258-266.	1.6	5
201	Composite Nanostructures and Adhesion Analysis of Natural Plant Hydrogels Investigated by Atomic Force Microscopy. IEEE Transactions on Nanobioscience, 2019, 18, 448-455.	3.3	5
202	An AFM based nanomanipulation system with 3D nano forces feedback. , 2004, , .		4
203	Optimal control of flexible end effector in AFM based nanomanipulation. , 2005, , .		4
204	Optimizing material distribution for tool trajectory generation in surface manufacturing. , 0, , .		4
205	Dynamic force measurement for microassembly of surface MEMS structures. , 2005, , .		4
206	Microfluidic end effector for manufacturing of nano devices. , 0, , .		4
207	Motion control of nonholonomic mobile underactuated manipulator. , 0, , .		4
208	Design and implementation of precise position controller of active probe of atomic force microscopy for nanomanipulation. Science Bulletin, 2008, 53, 2090-2096.	9.0	4
209	Design and generation of DEP force for assembly of CNT-based nano devices. , 2008, , .		4
210	Position-Sensitive Detector (PSD) Guided Servoing Method for Industrial Robot Calibration. International Journal of Optomechatronics, 2009, 3, 116-132.	6.6	4
211	On-line sensing and visual feedback for atomic force microscopy (AFM) based nano-manipulations. , 2010, , .		4
212	Processing and analysis of bio-signals from human stomach. , 2010, , .		4
213	High-Accuracy Positioning of an Industrial Robot Using Image/PSD-Based Hybrid Servo Control. International Journal of Optomechatronics, 2011, 5, 170-187.	6.6	4
214	Target object identification and localization in mobile manipulations. , 2011, , .		4
215	Real-Time Adaptive Content-Based Synchronization of Multimedia Streams. Advances in Multimedia, 2011, 2011, 1-13.	0.4	4
216	Design of Robotic Human Assistance Systems Using a Mobile Manipulator. International Journal of Advanced Robotic Systems, 2012, 9, 165.	2.1	4

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217	The Development of an Infrared Camera Using Graphene: Achieving Efficient High-Resolution Infrared Images.. IEEE Nanotechnology Magazine, 2012, 6, 4-7.	1.3	4
218	Optimization of Proteinâ€“Protein Interaction Measurements for Drug Discovery Using AFM Force Spectroscopy. IEEE Nanotechnology Magazine, 2019, 18, 509-517.	2.0	4
219	Control and adaptation of multiple vehicle formation. , 0, , .		3
220	Dynamic workspace analysis and motion planning for a micro biped walking robot. , 0, , .		3
221	Internet-based remote sensing and manipulation in micro environment. , 0, , .		3
222	Synchronization and control of supermedia transmission via the Internet. , 0, , .		3
223	A bone reaming system using micro sensors for Internet force-feedback control. , 0, , .		3
224	Optimization in automated surface inspection of stamped automotive parts. , 0, , .		3
225	Interactive model identification for nonholonomic cart pushed by a mobile manipulator. , 0, , .		3
226	Manipulating nano scale biological specimen in liquid. , 0, , .		3
227	Hybrid system model for event-based planning and control of robot operations. , 0, , .		3
228	Coordinated formation control of multiple nonlinear systems. Journal of Control Theory and Applications, 2005, 3, 1-19.	0.8	3
229	Dynamic performance enhancement of PVDF force sensor for micromanipulation. , 2005, , .		3
230	Mobile Sensor Navigation with Miniature Active Camera for Structure Inspection. , 2006, , .		3
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