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	Real-time Tracking of Living Cell Proliferation with Nano Mechanical Biomarkers. , 2022, , .		2
2	Progress in Nanorobotics for Advancing Biomedicine. IEEE Transactions on Biomedical Engineering, 2021, 68, 130-147.	4.2	32
3	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
4	Peak force tapping atomic force microscopy for advancing cell and molecular biology. Nanoscale, 2021, 13, 8358-8375.	5.6	20
5	Multiparametric atomic force microscopy imaging of single native exosomes. Acta Biochimica Et Biophysica Sinica, 2021, 53, 385-388.	2.0	13
6	A bio-syncretic phototransistor based on optogenetically engineered living cells. Biosensors and Bioelectronics, 2021, 178, 113050.	10.1	12
7	Robot Motion Control with Compressive Feedback. , 2021, , .		0
8	Shape Predictions of a Flexible Rope Manipulated by a Robot Arm. , 2021, , .		0
9	Characterizing AFM Tip Lateral Positioning Variability Through Non-Vector Space Control-Based Nanometrology. IEEE Nanotechnology Magazine, 2020, 19, 56-60.	2.0	3
10	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
11	Bioinspired Musculoskeletal Model-based Soft Wrist Exoskeleton for Stroke Rehabilitation. Journal of Bionic Engineering, 2020, 17, 1163-1174.	5.0	20
12	Fabrication and Characterization of Muscle Rings Using Circular Mould and Rotary Electrical Stimulation for Bio-Syncretic Robots. , 2019, , .		2
13	Nanotopographical Surfaces for Regulating Cellular Mechanical Behaviors Investigated by Atomic Force Microscopy. ACS Biomaterials Science and Engineering, 2019, 5, 5036-5050.	5.2	17
14	Optimization of Proteinâ€“Protein Interaction Measurements for Drug Discovery Using AFM Force Spectroscopy. IEEE Nanotechnology Magazine, 2019, 18, 509-517.	2.0	4
15	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
16	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
17	Nanoscale Multiparametric Imaging of Peptide-Assembled Nanofibrillar Hydrogels by Atomic Force Microscopy. IEEE Nanotechnology Magazine, 2019, 18, 315-328.	2.0	9
18	Examining the feasibility of a â€œtop-downâ€•approach to enhancing the keratinocyte-implant adhesion. Experimental Cell Research, 2019, 376, 105-113.	2.6	1

#	Article	IF	Citations
19	Task-Oriented Design Optimization for a Mobile Painting Robot*. , 2019, , .		0
20	Humanoid Robot Locomotion Control based on Perceptive Model. , 2019, , .		0
21	Recurrent Transfer Learning by Neural Network Regression for Human Balance Sensor Calibration. , 2019, , .		2
22	Overcoming Positioning Uncertainty for AFM-based Nanorobots using Spiral Local Scan in Non-vector Space. , 2019, , .		0
23	Modeling and Analysis of Micro-bubble Stiffness Measured by Atomic Force Microscopy. , 2019, , .		0
24	Advances in atomic force microscopy for single-cell analysis. Nano Research, 2019, 12, 703-718.	10.4	66
25	Development of micro- and nanorobotics: A review. Science China Technological Sciences, 2019, 62, 1-20.	4.0	74
26	Atomic Force Microscopy in Probing Tumor Physics for Nanomedicine. IEEE Nanotechnology Magazine, 2019, 18, 83-113.	2.0	24
27	Dynamic Model for Characterizing Contractile Behaviors and Mechanical Properties of a Cardiomyocyte. Biophysical Journal, 2018, 114, 188-200.	0.5	16
28	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
29	A Review of Nanoscale Characterizing Individual DNA Behaviors Using Atomic Force Microscopy. IEEE Nanotechnology Magazine, 2018, 17, 920-933.	2.0	9
30	Atomic force microscopy studies on cellular elastic and viscoelastic properties. Science China Life Sciences, 2018, 61, 57-67.	4.9	30
31	A Shared Control Scheme for Teleoperation of Hot Line Work Robots. , 2018, , .		1
32	Content-Based Compressive Sensing. , 2018, , .		2
33	Sensing and Data Analysis for Assessing Human Balance Ability. , 2018, , .		3
34	Event-Based Planning and Control for Teleoperation of Hot Line Work Robot. , 2018, , .		2
35	Force Point Transfer Method to Solve the Structure of Soft Exoskeleton Robot Deformation due to the Driving Force. , 2018, , .		2
36	Differentiation of C2C12 Myoblasts and Characterization of Electro-Responsive Beating Behavior of Myotubes Using Circularly Distributed Multiple Electrodes for Bio-Syncretic Robot. , 2018, , .		0

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37	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
38	AFM Tip Position Control <italic>in situ</italic> for Effective Nanomanipulation. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2825-2836.	5.8	18
39	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
40	Single-cell membrane drug delivery using porous pen nanodeposition. Nanoscale, 2018, 10, 12704-12712.	5.6	8
41	Applications of Micro/Nano Automation Technology in Detecting Cancer Cells for Personalized Medicine. IEEE Nanotechnology Magazine, 2017, 16, 217-229.	2.0	25
42	A Miniature Water Surface Jumping Robot. IEEE Robotics and Automation Letters, 2017, 2, 1272-1279.	5.1	20
43	The dynamic interactions between chemotherapy drugs and plasmid DNA investigated by atomic force microscopy. Science China Materials, 2017, 60, 269-278.	6.3	11
44	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
45	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
46	Atomic Force Microscopy in Characterizing Cell Mechanics for Biomedical Applications: A Review. IEEE Transactions on Nanobioscience, 2017, 16, 523-540.	3.3	88
47	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
48	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
49	Control of cardiomyocyte contraction for actuation of bio-syncretic robots. , 2017, , .		0
50	A hybrid deep architecture for robotic grasp detection. , 2017, , .		118
51	Modeling robotic operations controlled by natural language. Control Theory and Technology, 2017, 15, 258-266.	1.6	5
52	Modeling and analysis of living beating cardiomyocyte in sub-cell scale. , 2017, , .		0
53	Learning object recognition based on compressive sampling. , 2017, , .		2
54	Bio-inspired wearable soft upper-limb exoskeleton robot for stroke survivors. , 2017, , .		12

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55	A supervisory hierarchical control approach for text to 2D scene generation. , 2017, , .		1
56	Modeling Natural Language Controlled Robotic Operations. , 2017, , .		1
57	Study of nano-manipulation approach based on the least action principle using AFM based robotic system. , 2017, , .		0
58	Discrete nonlinear contraction theory based adaptive control strategy for a class of hammerstein systems with saturated hysteresis. , 2017, , .		3
59	Imaging and Force Recognition of Single Molecular Behaviors Using Atomic Force Microscopy. Sensors, 2017, 17, 200.	3.8	26
60	Detecting Target Objects by Natural Language Instructions Using an RGB-D Camera. Sensors, 2016, 16, 2117.	3.8	2
61	Online Determination of Graphene Lattice Orientation Through Lateral Forces. Nanoscale Research Letters, 2016, 11, 353.	5.7	6
62	Probing crystallography-induced anisotropy and periodic property of atomic friction in MoS2 via fast Fourier transform processing. , 2016, , .		1
63	Analytic approach for natural language based supervisory control of robotic manipulations. , 2016, , .		1
64	Dual-arm robot assembly system for 3C product based on vision guidance. , 2016, , .		18
65	Program robots manufacturing tasks by natural language instructions. , 2016, , .		6
66	AFM measurement of the mechanical properties of single adherent cells based on vibration. , 2016, , .		0
67	Multi-layer coated nanorobot end-effector for efficient drug delivery. , 2016, , .		0
68	Teach robots understanding new object types and attributes through natural language instructions. , 2016, , .		2
69	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
70	Nonconvex compressive video sensing. Journal of Electronic Imaging, 2016, 25, 063003.	0.9	2
71	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
72	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

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73	Applications of Atomic Force Microscopy in Exploring Drug Actions in Lymphoma-Targeted Therapy at the Nanoscale. BioNanoScience, 2016, 6, 22-32.	3.5	6
74	Effect of training on the quality of teleoperator (QoT). , 2015, , .		6
75	Imaging and mapping individual target proteins on clinical lymphoma cells by AFM. , 2015, , .		1
76	BIOLOGICALLY-INSPIRED MINIATURE JUMPING ROBOT: FROM DESIGN TO CONTROL. , 2015, , .		0
77	Bio-syncretic tweezer: 3D manipulator actuated by microorganisms. , 2015, , .		1
78	Local path planning based on Ridge Regression Extreme Learning Machines for an outdoor robot. , 2015, , .		3
79	Signal reconstruction of the slow wave and spike potential from electrogastrogram. Bio-Medical Materials and Engineering, 2015, 26, S1515-S1521.	0.6	6
80	Saliency-Guided Detection of Unknown Objects in RGB-D Indoor Scenes. Sensors, 2015, 15, 21054-21074.	3.8	22
81	Nanoscale monitoring of drug actions on cell membrane using atomic force microscopy. Acta Pharmacologica Sinica, 2015, 36, 769-782.	6.1	46
82	Improving the reliability of carbon nanotube based infrared sensors. , 2015, , .		0
83	Non-vector space landing control for a miniature tailed robot. , 2015, , .		1
84	A bio-syncretic micro-swimmer assisted by magnetism. , 2015, , .		0
85	Multi-objective position control for an industrial robot calibration system. , 2015, , .		1
86	Data correlation approach for slippage detection in robotic manipulations using tactile sensor array. , 2015, , .		7
87	Parasitic capacitive coupling analysis of carbon nanotube based infrared detector. , 2015, , .		0
88	Kinetics of enzymatic hydrolysis revealed by video rate AFM single molecule analysis. , 2015, , .		0
89	Single image super resolution infrared camera using carbon nanotube photodetector. , 2015, , .		0
90	MSU Tailbot: Controlling Aerial Maneuver of a Miniature-Tailed Jumping Robot. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2903-2914.	5.8	73

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91	Modelling and control for simultaneous laser beam alignment of a dual-PSD industrial robot calibration system. , 2015, , .		2
92	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
93	Cellular level robotic surgery: Nanodissection of intermediate filaments in live keratinocytes. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 137-145.	3.3	31
94	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
95	Controllable electrical breakdown of multiwall carbon nanotubes. , 2014, , .		3
96	In situ visualization of dynamic interactions of cellulase and cellulose molecules. , 2014, , .		0
97	A new active wheel slip avoidance method for mobile manipulator. , 2014, , .		0
98	Coordinated motion control of a nonholonomic mobile manipulator for accurate motion tracking. , 2014, , .		14
99	Teaching Robots New Actions through Natural Language Instructions. , 2014, , .		31
100	Research progress in quantifying the mechanical properties of single living cells using atomic force microscopy. Science Bulletin, 2014, 59, 4020-4029.	1.7	20
101	A miniature 25 grams running and jumping robot. , 2014, , .		38
102	Coordination of a nonholonomic mobile platform and an on-board manipulator. , 2014, , .		5
103	High precision positioning control for SPM based nanomanipulation: A robust adaptive model reference control approach. , 2014, , .		6
104	Perceptive feedback for natural language control of robotic operations. , 2014, , .		7
105	Friction anisotropy dependence on lattice orientation of graphene. Science China: Physics, Mechanics and Astronomy, 2014, 57, 663-667.	5.1	11
106	In Vivo tumor interstitial fluid pressure measurement using static micro force sensor and mechanical tumor model. , 2014, , .		0
107	Non-vector space stochastic control for nano robotic manipulations. , 2014, , .		2
108	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

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109	Compressive Feedback-Based Motion Control for Nanomanipulationâ€"Theory and Applications. IEEE Transactions on Robotics, 2014, 30, 103-114.	10.3	21
110	Quality of teleoperator adaptive control for telerobotic operations. International Journal of Robotics Research, 2014, 33, 1765-1781.	8.5	12
111	Progress in measuring biophysical properties of membrane proteins with AFM single-molecule force spectroscopy. Science Bulletin, 2014, 59, 2717-2725.	1.7	13
112	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
113	Connectivity and bandwidthâ€aware realâ€time exploration in mobile robot networks. Wireless Communications and Mobile Computing, 2013, 13, 847-863.	1.2	36
114	Progress of AFM single-cell and single-molecule morphology imaging. Science Bulletin, 2013, 58, 3177-3182.	1.7	15
115	Mapping CD20 molecules on the lymphoma cell surface using atomic force microscopy. Science Bulletin, 2013, 58, 1516-1519.	1.7	8
116	Model and control for four-powered-caster vehicle: a probability-based approach. Transactions of the Institute of Measurement and Control, 2013, 35, 875-882.	1.7	0
117	Stable Nanomanipulation Using Atomic Force Microscopy: A virtual nanohand for a robotic nanomanipulation system.. IEEE Nanotechnology Magazine, 2013, 7, 6-11.	1.3	9
118	AFM-Based Robotic Nano-Hand for Stable Manipulation at Nanoscale. IEEE Transactions on Automation Science and Engineering, 2013, 10, 285-295.	5.2	46
119	MSU Jumper: A Single-Motor-Actuated Miniature Steerable Jumping Robot. IEEE Transactions on Robotics, 2013, 29, 602-614.	10.3	131
120	Efficient imaging and real-time display of Scanning Ion Conductance Microscopy based on block compressive sensing. , 2013, , .		0
121	Mobile robot pose estimation using laser scan matching based on Fourier Transform. , 2013, , .		1
122	Substrate effect on single carbon nanotube based infrared sensors. , 2013, , .		3
123	Non-invasive EEG based mental state identification using nonlinear combination. , 2013, , .		2
124	The Evolution of MAC Protocols in Wireless Sensor Networks: A Survey. IEEE Communications Surveys and Tutorials, 2013, 15, 101-120.	39.4	431
125	Measurement of Cationic and Intracellular Modulation of Integrin Binding Affinity by AFM-Based Nanorobot. Biophysical Journal, 2013, 105, 40-47.	0.5	7
126	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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127	Controlling aerial maneuvering of a miniature jumping robot using its tail. , 2013, , .		17
128	Hand-arm coordination for a tomato harvesting robot based on commercial manipulator. , 2013, , .		6
129	Development of a position sensitive device and control method for automated robot calibration. , 2013, , .		11
130	Identification of road surface conditions based on laser scanning. , 2013, , .		2
131	Online Sensor Information and Redundancy Resolution Based Obstacle Avoidance for High DOF Mobile Manipulator Teleoperation. International Journal of Advanced Robotic Systems, 2013, 10, 244.	2.1	3
132	Automated Robot Tool Trajectory Connection for Spray Forming Process. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, .	2.2	24
133	Obstacle avoidance for mobile manipulation by real-time sensor-based redundancy resolution. , 2012, , .		2
134	Multi-objective optimization for telerobotic operations via the Internet. , 2012, , .		1
135	Non-vector space control for nanomanipulations based on compressive feedbacks. , 2012, , .		10
136	A single motor actuated miniature steerable jumping robot. , 2012, , .		6
137	Hyperspectrum image fusion for sensor guided mobile manipulations. , 2012, , .		0
138	Visual servoing using non-vector space control theory. , 2012, , .		11
139	Suppressing nano-scale stick-slip motion by feedback. Journal of Applied Physics, 2012, 111, .	2.5	0
140	Stability analysis of non-vector space control via compressive feedbacks. , 2012, , .		3
141	High gain current readout method for MWCNT infrared sensor. , 2012, , .		2
142	Design of Robotic Human Assistance Systems Using a Mobile Manipulator. International Journal of Advanced Robotic Systems, 2012, 9, 165.	2.1	4
143	A Robot-Assisted Back-Imaging Measurement System for Transparent Glass. IEEE/ASME Transactions on Mechatronics, 2012, 17, 779-788.	5.8	8
144	Nano-robot enabled characterizations of local electrical properties for nano-structures. , 2012, , .		0

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145	Online identification of quality of teleoperator (QoT) for performance improvement of telerobotic operations. , 2012, , .		6
146	Cutting forces related with lattice orientations of graphene using an atomic force microscopy based nanorobot. Applied Physics Letters, 2012, 101, .	3.3	23
147	Bio-inspired scanning for video-imaging using an atomic force microscope. , 2012, , .		1
148	Passive scattering transform bilateral teleoperation for an Internet-based mobile robot. , 2012, , .		5
149	Investigating the relationship between CD20-Rituximab binding force and mechanical properties of Lymphom B cells using atomic force microscopy. , 2012, , .		0
150	Development of 3D hyperspectral camera using compressive sensing. , 2012, , .		3
151	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
152	Sensor-based redundancy resolution for a nonholonomic mobile manipulator. , 2012, , .		14
153	Leveraging Height in a Jumping Sensor Network to Extend Network Coverage. IEEE Transactions on Wireless Communications, 2012, 11, 1840-1849.	9.2	13
154	The Development of an Infrared Camera Using Graphene: Achieving Efficient High-Resolution Infrared Images.. IEEE Nanotechnology Magazine, 2012, 6, 4-7.	1.3	4
155	A Humanoid Neck System Featuring Low Motion-Noise. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 67, 101-116.	3.4	14
156	Industrial Robot Calibration Using a Virtual Linear Constraint. International Journal on Smart Sensing and Intelligent Systems, 2012, 5, 987-1001.	0.7	8
157	Imaging and measuring the protein distribution of lymphoma cells using atomic force microscopy. , 2011, , .		0
158	Dynamics modeling of a mobile manipulator for wheel slip avoidance. , 2011, , .		3
159	Motion description and control for a tele-manipulator system based on MDL. , 2011, , .		0
160	Image based approach to obstacle avoidance in mobile manipulators. , 2011, , .		5
161	Carbon nanotube based multiple spectrum infrared camera. , 2011, , .		0
162	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

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163	Feature referenced tip localization enhanced by probability motion model for AFM based nanomanipulations. , 2011, , .		6
164	Target object identification and localization in mobile manipulations. , 2011, , .		4
165	Uncooled infrared sensing using graphene. , 2011, , .		1
166	Development of graphene-based optical detectors for infrared sensing applications. , 2011, , .		3
167	Controlling telerobotic operations adaptive to quality of teleoperator and task dexterity. , 2011, , .		10
168	Coordinated formation control for multi-robot systems with communication constraints. , 2011, , .		5
169	Stability analysis for Internet based teleoperated robot using prediction control. , 2011, , .		6
170	Real-Time Adaptive Content-Based Synchronization of Multimedia Streams. Advances in Multimedia, 2011, 2011, 1-13.	0.4	4
171	Detecting CD20-Rituximab interaction forces using AFM single-molecule force spectroscopy. Science Bulletin, 2011, 56, 3829-3835.	1.7	14
172	Dielectrophoretic assembly and atomic force microscopy modification of reduced graphene oxide. Journal of Applied Physics, 2011, 110, 114515.	2.5	8
173	Probing protein-protein interaction forces using single-molecule force spectroscopy. , 2011, , .		0
174	Video rate Atomic Force Microscopy (AFM) imaging using compressive sensing. , 2011, , .		24
175	Photonic crystal with a HfO<inf>2</inf> defect to improve performance of carbon nanotube based photodetectors. , 2011, , .		0
176	Mutation analysis models for visual servoing in nanomanipulations. , 2011, , .		10
177	Development and testing of nano robot end effector for cell electrophysiology and elastography studies. , 2011, , .		1
178	Design of single-operator-multi-robot teleoperation systems with random communication delay. , 2011, , .		12
179	Readout system design for MWCNT Infrared sensors. , 2011, , .		3
180	Combined kinematic and static analysis of a cable-driven manipulator with a spring spine. , 2011, , .		5

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181	Development of a controllable and continuous jumping robot. , 2011, , .		31
182	MDL-based control method for mobile robot with randomly varying time-delay. , 2011, , .		1
183	Atomic Force Microscopy as Nanorobot. Methods in Molecular Biology, 2011, 736, 485-503.	0.9	6
184	Design of an endoscopic stitching device for surgical obesity treatment using a N.O.T.E.S approach. , 2011, , .		3
185	Design of an MRI compatible haptic interface. , 2011, , .		8
186	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
187	Controlling telerobotic operations adaptive to quality of teleoperator and task dexterity. , 2011, , .		0
188	Research on the reconstruction of fast and accurate AFM probe model. Science Bulletin, 2010, 55, 2750-2754.	1.7	8
189	Bionanomanipulation Using Atomic Force Microscopy. IEEE Nanotechnology Magazine, 2010, 4, 9-12.	1.3	19
190	Stiffness Measurement of Burkitt's Lymphoma Cells with Atomic Force Microscopy. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0
191	Measuring the physical properties of the lymphoma cells using atomic force microscopy. , 2010, , .		1
192	Quantum effect in field enhancement using antenna for carbon nanotube based infrared sensors. , 2010, , .		1
193	High-speed non-cryogenic cooled infrared sensors using carbon nanotubes. , 2010, , .		2
194	Manipulation and assembly methods for graphene based nano devices. , 2010, , .		1
195	An experimental study on imaging burkitt's lymphoma cells by atomic force microscope. , 2010, , .		0
196	Design and testing of a controllable miniature jumping robot. , 2010, , .		10
197	Real-time 3D shape measurement system based on single structure light pattern. , 2010, , .		1
198	Micro fixture enabled in-situ imaging and manipulation of cell membrane protein. , 2010, , .		0

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199	The controllability and observability of the event-based control system. , 2010, , .		0
200	Ultra-compliant thermal AFM probes for studying of cellular properties. , 2010, , .		3
201	Development of a low motion-noise humanoid neck: Statics analysis and experimental validation. , 2010, , .		2
202	Construction of 3D structure with virus using AFM based nanorobot. , 2010, , .		0
203	Calibration of a structure light based windshield inspection system. , 2010, , .		1
204	On-line sensing and visual feedback for atomic force microscopy (AFM) based nano-manipulations. , 2010, , .		4
205	Atomic Force Microscopy based nanorobotic operations for biomedical investigations. , 2010, , .		0
206	Development of readout system for carbon nanotube based infrared detector. , 2010, , .		1
207	Dynamic model and adaptive tracking controller for 4-Powered Caster Vehicle. , 2010, , .		1
208	Analysis and design of carbon nanotube based field effect transistors for nano infrared sensors. , 2010, , .		3
209	Improving the detectability of CNT based infrared sensors using multi-gate field effect transistor. , 2010, , .		1
210	Gate structure optimization of carbon nanotube transistor based infrared detector. , 2010, , .		0
211	Real-time 3D shape inspection system for manufacturing parts based on three-step stripe pattern. , 2010, , .		0
212	The effects of vacancies on the transport properties of zigzag graphene nanoribbons. , 2010, , .		1
213	Coordinated multi-robot real-time exploration with connectivity and bandwidth awareness. , 2010, , .		15
214	Measuring the molecular force of Burkitt's lymphoma patient cells using AFM. , 2010, , .		0
215	Cutting graphene using an atomic force microscope based nanorobot. , 2010, , .		5
216	A probabilistic approach for on-line positioning in nano manipulations. , 2010, , .		5

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217	An online motion planning algorithm for a 7DOF redundant manipulator. , 2010, , .		6
218	Cellular tensegrity modeling with Atomic Force Microscopy (AFM) experimentation. , 2010, , .		0
219	An experimental study on protein-protein interaction using atomic force microscopy. , 2010, , .		0
220	Processing and analysis of bio-signals from human stomach. , 2010, , .		4
221	A MDL-based control method for tele-robotic systems over Internet. , 2010, , .		1
222	Development of plasma integrated AFM nano manufacturing workcell. , 2009, , .		0
223	Engineering the band gap of carbon nanotube for infrared sensors. Applied Physics Letters, 2009, 95, .	3.3	30
224	Develop feedback robot planning method for 3D surface inspection. , 2009, , .		3
225	Information transformation-based tele-robotic systems. , 2009, , .		3
226	Hopping sensor relocation in rugged terrains. , 2009, , .		6
227	Shifted gamma distribution and long-range prediction of Round Trip Timedelay for Internet-based teleoperation. , 2009, , .		11
228	Quantitatively characterizing automotive interior surfaces using an Optical TIR-based texture sensor. , 2009, , .		3
229	Position-Sensitive Detector (PSD) Guided Servoing Method for Industrial Robot Calibration. International Journal of Optomechatronics, 2009, 3, 116-132.	6.6	4
230	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
231	Di-electrophoresis assembly and fabrication of SWCNT field-effect transistor. Science Bulletin, 2009, 54, 4451-4457.	9.0	9
232	Infrared detection using an InSb nanowire. , 2009, , .		21
233	A multi-layered dynamic neural group method for characteristic patterns identification and prediction of complex event series. , 2009, , .		0
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