

Lixin Dong

List of Publications by Year in descending order

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210
papers

6,150
citations

136740

32
h-index

76769

74
g-index

218
all docs

218
docs citations

218
times ranked

5005
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial bacterial flagella: Fabrication and magnetic control. Applied Physics Letters, 2009, 94, .	1.5	932
2	How Should Microrobots Swim?. International Journal of Robotics Research, 2009, 28, 1434-1447.	5.8	563
3	Reconfigurable magnetic microrobot swarm: Multimode transformation, locomotion, and manipulation. Science Robotics, 2019, 4, .	9.9	459
4	Characterizing the Swimming Properties of Artificial Bacterial Flagella. Nano Letters, 2009, 9, 3663-3667.	4.5	436
5	Assembly of nanodevices with carbon nanotubes through nanorobotic manipulations. Proceedings of the IEEE, 2003, 9, 1803-1818.	16.4	293
6	Nanorobotic Spot Welding: Controlled Metal Deposition with Attogram Precision from Copper-Filled Carbon Nanotubes. Nano Letters, 2007, 7, 58-63.	4.5	194
7	Anomalous Coiling of SiGe/Si and SiGe/Si/Cr Helical Nanobelts. Nano Letters, 2006, 6, 1311-1317.	4.5	163
8	Fabrication and Characterization of Three-Dimensional InGaAs/GaAs Nanosprings. Nano Letters, 2006, 6, 725-729.	4.5	155
9	Electron-beam-induced deposition with carbon nanotube emitters. Applied Physics Letters, 2002, 81, 1919-1921.	1.5	147
10	Soft Crawling Robots: Design, Actuation, and Locomotion. Advanced Materials Technologies, 2020, 5, 1900837.	3.0	136
11	B ₄ C Nanowires/Carbon Microfiber Hybrid Structures and Composites from Cotton T-shirts. Advanced Materials, 2010, 22, 2055-2059.	11.1	104
12	Photothermal Effect Induced Negative Photoconductivity and High Responsivity in Flexible Black Phosphorus Transistors. ACS Nano, 2017, 11, 6048-6056.	7.3	104
13	Destructive Constructions of Nanostructures With Carbon Nanotubes Through Nanorobotic Manipulation. IEEE/ASME Transactions on Mechatronics, 2004, 9, 350-357.	3.7	102
14	Carbon nanotubes for nanorobotics. Nano Today, 2007, 2, 12-21.	6.2	94
15	Piezoresistivity Characterization of Synthetic Silicon Nanowires Using a MEMS Device. Journal of Microelectromechanical Systems, 2011, 20, 959-967.	1.7	91
16	TaC Nanowire/Activated Carbon Microfiber Hybrid Structures from Bamboo Fibers. Advanced Energy Materials, 2011, 1, 534-539.	10.2	87
17	Ionic shape-morphing microrobotic end-effectors for environmentally adaptive targeting, releasing, and sampling. Nature Communications, 2021, 12, 411.	5.8	87
18	Tutorial - Robotics in the small Part II: Nanorobotics. IEEE Robotics and Automation Magazine, 2007, 14, 111-121.	2.2	72

#	ARTICLE	IF	CITATIONS
19	Flagella-like Propulsion for Microrobots Using a Nanocoil and a Rotating Electromagnetic Field. , 2007, , .		68
20	Towards nanotube linear servomotors. IEEE Transactions on Automation Science and Engineering, 2006, 3, 228-235.	3.4	67
21	Piezoresistive InGaAs/GaAs Nanosprings with Metal Connectors. Nano Letters, 2009, 9, 554-561.	4.5	66
22	Real-time Rigid-body Visual Tracking in a Scanning Electron Microscope. International Journal of Robotics Research, 2009, 28, 498-511.	5.8	65
23	Three-dimensional nanosprings for electromechanical sensors. Sensors and Actuators A: Physical, 2006, 130-131, 54-61.	2.0	61
24	Batch fabrication of carbon nanotube bearings. Nanotechnology, 2007, 18, 075703.	1.3	56
25	Single Pixel Black Phosphorus Photodetector for Near-Infrared Imaging. Small, 2018, 14, 1702082.	5.2	56
26	Singular Sheet Etching of Graphene with Oxygen Plasma. Nano-Micro Letters, 2014, 6, 116-124.	14.4	53
27	In situ forming, characterization, and transduction of nanowire memristors. Nanoscale, 2013, 5, 12310.	2.8	48
28	Shaping Nanoelectrodes for High-Precision Dielectrophoretic Assembly of Carbon Nanotubes. IEEE Nanotechnology Magazine, 2009, 8, 449-456.	1.1	46
29	Nanotube Fluidic Junctions: Internanotube Attogram Mass Transport through Walls. Nano Letters, 2009, 9, 210-214.	4.5	45
30	Fabrication and characterization of freestanding Si/Cr micro- and nanospirals. Microelectronic Engineering, 2006, 83, 1237-1240.	1.1	40
31	Nanoassembly of Carbon Nanotubes through Mechanochemical Nanorobotic Manipulations. Japanese Journal of Applied Physics, 2003, 42, 295-298.	0.8	36
32	Nanofibers and nanoparticles from the insect-capturing adhesive of the Sundew (Drosera) for cell attachment. Journal of Nanobiotechnology, 2010, 8, 20.	4.2	35
33	Supermolecular switches based on multiwalled carbon nanotubes. Applied Physics Letters, 2010, 96, .	1.5	33
34	Biotemplating fabrication, mechanical and electrical characterizations of NbC nanowire arrays from the bamboo substrate. Journal of Alloys and Compounds, 2013, 560, 142-146.	2.8	33
35	3D nanorobotic manipulation of nano-order objects inside SEM. , 0, , .		30
36	Engineering Multiwalled Carbon Nanotubes Inside a Transmission Electron Microscope Using Nanorobotic Manipulation. IEEE Nanotechnology Magazine, 2008, 7, 508-517.	1.1	30

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37	Dual-Chirality Helical Nanobelts: Linear-to-Rotary Motion Converters for Three-Dimensional Microscopy. <i>Journal of Microelectromechanical Systems</i> , 2009, 18, 1047-1053.	1.7	27
38	Image-based 3D reconstruction using helical nanobelts for localized rotations. <i>Journal of Microscopy</i> , 2010, 237, 122-135.	0.8	27
39	Nanorobotics for creating NEMS from 3D helical nanostructures. <i>Journal of Physics: Conference Series</i> , 2007, 61, 257-261.	0.3	26
40	Multilayer Black Phosphorus Near-Infrared Photodetectors. <i>Sensors</i> , 2018, 18, 1668.	2.1	26
41	3D nanorobotic manipulations of multi-walled carbon nanotubes. , 0, , .		24
42	Ultra flexible SiGe/Si/Cr nanosprings. <i>Microelectronics Journal</i> , 2008, 39, 478-481.	1.1	24
43	3-D InGaAs/GaAs Helical Nanobelts for Optoelectronic Devices. <i>International Journal of Optomechatronics</i> , 2008, 2, 88-103.	3.3	23
44	Electrostatic Actuation and Electromechanical Switching Behavior of One-Dimensional Nanostructures. <i>ACS Nano</i> , 2009, 3, 2953-2964.	7.3	23
45	Simulation of Rotary Motion Generated by Head-to-Head Carbon Nanotube Shuttles. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013, 18, 130-137.	3.7	23
46	Metal-filled carbon nanotube based optical nanoantennas: bubbling, reshaping, and in situ characterization. <i>Nanoscale</i> , 2012, 4, 5673.	2.8	22
47	Inter-sheet-effect-inspired graphene sensors: design, fabrication and characterization. <i>Nanotechnology</i> , 2012, 23, 105501.	1.3	22
48	Controllable melting and flow of Pb-Sn in flexible amorphous carbon nanotubes. <i>Carbon</i> , 2009, 47, 3122-3127.	5.4	21
49	Long-range linear elasticity and mechanical instability of self-scrolling binormal nanohelices under a uniaxial load. <i>Nanoscale</i> , 2011, 3, 4301.	2.8	21
50	3-D Nanorobotic Manipulation of Nanometer-scale Objects. <i>Journal of Robotics and Mechatronics</i> , 2001, 13, 146-153.	0.5	21
51	Three-dimensional Nanorobotic Manipulations of Carbon Nanotubes. <i>Journal of Robotics and Mechatronics</i> , 2002, 14, 245-252.	0.5	21
52	Ultra-small site temperature sensing by carbon nanotube thermal probes. , 0, , .		20
53	How Should Microrobots Swim?. <i>Springer Tracts in Advanced Robotics</i> , 2010, , 157-167.	0.3	20
54	A Review of Microrobot's System: Towards System Integration for Autonomous Actuation In Vivo. <i>Micromachines</i> , 2021, 12, 1249.	1.4	20

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55	Bending and buckling of rolled-up SiGe ⁺ Si microtubes using nanorobotic manipulation. Applied Physics Letters, 2008, 92, .	1.5	19
56	Three-dimensional nanoassembly of multi-walled carbon nanotubes through nanorobotic manipulations by using electron-beam-induced deposition. , 0, , .		17
57	Directed batch assembly of three-dimensional helical nanobelts through angular winding and electroplating. Nanotechnology, 2007, 18, 055304.	1.3	17
58	Ring closure of rolled-up Si ⁺ Cr nanoribbons. Applied Physics Letters, 2008, 92, 143110.	1.5	17
59	Thermo- ϵ flow and temperature sensing behaviour of graphene based on surface heat convection. Micro and Nano Letters, 2013, 8, 681-685.	0.6	17
60	Enhanced Nonvector Space Approach for Nanoscale Motion Control. IEEE Nanotechnology Magazine, 2018, 17, 994-1005.	1.1	15
61	A tetrahedral DNA nanorobot with conformational change in response to molecular trigger. Nanoscale, 2021, 13, 15552-15559.	2.8	15
62	Design, fabrication, and characterization of graphene thermistor. , 2013, , .		14
63	Nanotube fountain pen: Towards 3D manufacturing of metallic nanostructures. Carbon, 2015, 86, 280-287.	5.4	14
64	Local control of electric current driven shell etching of multiwalled carbon nanotubes. Applied Physics A: Materials Science and Processing, 2007, 89, 133-139.	1.1	13
65	Micro/Nanorobots. , 2008, , 411-450.		13
66	Edge effect of strained bilayer nanofilms for tunable multistability and actuation. Nanoscale, 2017, 9, 2958-2962.	2.8	13
67	Position sensitivity of optical nano-antenna arrays on optoelectronic devices. Nano Energy, 2018, 53, 734-744.	8.2	13
68	Field emission property characterization of individual carbon nanotubes through nanorobotic manipulations and its applications. , 2004, , .		12
69	Spirally deformable soft actuators and their designable helical actuations based on a highly oriented carbon nanotube film. Soft Matter, 2019, 15, 9788-9796.	1.2	12
70	Nanorobotic Systems. International Journal of Advanced Robotic Systems, 2005, 2, 28.	1.3	11
71	Dielectrophoretic micro/nanoassembly with microtweezers and nanoelectrodes. , 0, , .		11
72	Micromanipulation using artificial bacterial flagella. , 2009, , .		11

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73	Numerical investigations of a multi-walled carbon nanotube-based multi-segmented optical antenna. Applied Physics B: Lasers and Optics, 2010, 101, 601-609.	1.1	11
74	SU-8 doped and encapsulated n-type graphene nanomesh with high air stability. Applied Physics Letters, 2013, 103, .	1.5	11
75	Internal Electron Tunneling Enabled Ultrasensitive Position/Force Peapod Sensors. Nano Letters, 2015, 15, 7281-7287.	4.5	11
76	Micro and Nanorobotic Assembly Using Dielectrophoresis. , 0, , .		11
77	Shape modification of carbon nanotubes and its applications in nanotube scissors. , 0, , .		10
78	Fabrication of a W/CuxO/Cu memristor with sub-micron holes for passive sensing of oxygen. Microelectronic Engineering, 2016, 164, 48-52.	1.1	10
79	Calibration of Carbon Nanotube Probes for Pico-Newton Order Force Measurement Inside a Scanning Electron Microscope. Journal of Robotics and Mechatronics, 2004, 16, 155-162.	0.5	10
80	Field Emission Properties of Individual Carbon Nanotubes in Nanorobotic Manipulation and Electron-Beam-Induced Deposition. Journal of Robotics and Mechatronics, 2004, 16, 597-603.	0.5	10
81	Field emission of telescoping multi-walled carbon nanotubes. , 0, , .		9
82	Carbon nanotubes based position sensors. , 0, , .		9
83	Nanotube Boiler: Attogram Copper Evaporation Driven by Electric Current, Joule Heating, Charge, and Ionization. IEEE Nanotechnology Magazine, 2009, 8, 565-568.	1.1	9
84	3D nanoassembly of carbon nanotubes through nanorobotic manipulations. , 0, , .		8
85	A hybrid nanorobotic manipulation system integrated with nanorobotic manipulators inside scanning and transmission electron microscopes. , 0, , .		8
86	Stability and analysis of configuration-tunable bi-directional MWNT bearings. Nanotechnology, 2009, 20, 495704.	1.3	8
87	Plumbing the Depths of the Nanometer Scale. IEEE Nanotechnology Magazine, 2010, 4, 13-22.	0.9	8
88	Resistive switching in copper oxide nanowire-based memristor. , 2012, , .		8
89	Single-cell membrane drug delivery using porous pen nanodeposition. Nanoscale, 2018, 10, 12704-12712.	2.8	8
90	Field Emission of Individual Carbon Nanotubes and its Improvement by Decoration with Ruthenium Dioxide Super-Nanoparticles. Journal of Robotics and Mechatronics, 2005, 17, 475-482.	0.5	8

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91	Position control and explicit force control of constrained motions of a manipulator for accurate grinding tasks. <i>Advanced Robotics</i> , 1996, 11, 285-300.	1.1	7
92	Nanotube multi-functional nanoposition sensors. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2005, 219, 23-27.	0.1	7
93	Towards Linear Nano Servomotors with Integrated Position Sensing. , 0, , .		7
94	Hybrid nanorobotic approaches for fabricating NEMS from 3D helical nanostructures. , 0, , .		6
95	Aging effect of rolled-up InGaAs/GaAs/Cr helical nanobelts. <i>Microelectronic Engineering</i> , 2009, 86, 824-827.	1.1	6
96	Sliding Probe Methods for <i>In Situ</i> Nanorobotic Characterization of Individual Nanostructures. <i>IEEE Transactions on Robotics</i> , 2015, 31, 12-18.	7.3	6
97	Micro-/Nanorobots. <i>Springer Handbooks</i> , 2016, , 671-716.	0.3	6
98	In situ TEM revealing pretreatment and interface effects in Ge ₂ Sb ₂ Te ₅ . <i>Applied Physics Letters</i> , 2020, 116, 222105.	1.5	6
99	Pinpoint injection of micro tools using dielectrophoresis and hydrophobic surface for minimally invasive separation of microbe. , 0, , .		5
100	Force measurement with pico-Newton order resolution using a carbon nanotube probe. , 0, , .		5
101	Perspective of nanotube sensors and nanotube actuators. , 0, , .		5
102	Nano encoders based on vertical arrays of individual carbon nanotubes. <i>Advanced Robotics</i> , 2006, 20, 1281-1301.	1.1	5
103	Shaping the nanostructures from electromigration-based deposition. , 2010, , .		5
104	Mechanically tough, elastic and stable rope-like double nanohelices. <i>Nanoscale</i> , 2014, 6, 9436-9442.	2.8	5
105	In situ TEM revealing the effects of dislocations on lithium-ion migration in transition metal dichalcogenides. <i>Journal of Energy Chemistry</i> , 2021, 58, 280-284.	7.1	5
106	Fabrication and Property Analysis of MWNT Junctions through Nanorobotic Manipulations. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2002, 3, .	0.4	4
107	Nanotube devices fabricated in a nano laboratory. , 0, , .		4
108	Manipulation of nanocoils for nanoelectromagnets. , 0, , .		4

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109	In-situ nanorobotic soldering of three-dimensional helical nanobelts using gold nanoink. , 2007, , .		4
110	Optimization of Protein-Protein Interaction Measurements for Drug Discovery Using AFM Force Spectroscopy. IEEE Nanotechnology Magazine, 2019, 18, 509-517.	1.1	4
111	Plasmon-Enhanced Photovoltaic Characteristics of Black Phosphorus-MoS ₂ Heterojunction. IEEE Open Journal of Nanotechnology, 2021, 2, 41-51.	0.9	4
112	Multiple-objective motion planning for unmanned aerial vehicles. , 2011, , .		4
113	Inter-process measurement of MWNT rigidity and fabrication of MWNT junctions through nanorobotic manipulations. AIP Conference Proceedings, 2001, , .	0.3	3
114	Electron-beam-induced deposition of conductive nanostructures with carbon nanotube emitters. , 0, , .		3
115	Measurements of the bi-linear elasticity of identical carbon nanotubes. , 0, , .		3
116	Pure metal deposit using multi-walled carbon nanotubes decorated with ruthenium dioxide super-nanoparticles. , 0, , .		3
117	Nanolaboratory - a prototype nanomanufacturing system. , 0, , .		3
118	Selective Eradication of Individual Carbon Nanotubes from Vertically Aligned Arrays. , 0, , .		3
119	Shell Engineering of Carbon Nanotube Arrays by Current Driven Breakdown. , 2006, , .		3
120	Fabrication and Characterization of Self-scrolling Si/Cr Micro- and Nanostructures. , 2006, , .		3
121	Dual-chirality helical nanobelts: A novel linear-to-rotary motion converter. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	3
122	Spheres on pillars: Nanobubbling based on attogram mass delivery from metal-filled nanotubes. , 2010, , .		3
123	Highly sensitive bilayer structured graphene sensor. , 2011, , .		3
124	Nanorobotic mass transport. , 2012, , .		3
125	Characterization of surface heat convection of bilayer graphene. , 2012, , .		3
126	Quantitatively control of carbon nanotubes using real time electrical detection dielectrophoresis assembly. , 2015, , .		3

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127	Characterization of Carbon Nanotube Based Infrared Photodetector Using Digital Microscopy. Journal of Nanoscience and Nanotechnology, 2017, 17, 482-487.	0.9	3
128	Singular Sheet Etching of Graphene with Oxygen Plasma. Nano-Micro Letters, 2014, 6, 116.	14.4	3
129	Anisotropic lithium-ion migration and electro-chemo-mechanical coupling in Sb ₂ Se ₃ single crystals. Science China Materials, 2022, 65, 2657-2664.	3.5	3
130	The pico-Newton order force measurement with a calibrated carbon nanotube probe. , 0, , .		2
131	Length control of carbon nanotubes through nanorobotic manipulations. , 0, , .		2
132	Nano encoders based on arrays of single nanotube emitters. , 0, , .		2
133	Assembly of arrays of individual lateral nanotube emitters on nanoelectrodes. , 0, , .		2
134	Dielectrophoretic nanoassembly of individual carbon nanotubes onto nanoelectrodes. , 0, , .		2
135	Conductometric sensors based on InGaAs/GaAs nanocoils. , 2007, , .		2
136	Automatic Nanorobotic Characterization of Anomalously Rolled-up SiGe/Si Helical Nanobelts through Vision-based Force Measurement. , 2007, , .		2
137	Real-time rigid-body visual tracking in a scanning electron microscope. , 2007, , .		2
138	In situ electrical property characterization of individual nanostructures using a sliding probe inside a transmission electron microscope. , 2010, , .		2
139	Molecular nanosensors based on the inter-sheet tunneling effect of a bilayer graphene. , 2010, , .		2
140	Layer engineering of graphene with oxygen plasma etching. , 2011, , .		2
141	Tunable graphene nanomesh semiconductor: Design, fabrication, and characterization. , 2013, , .		2
142	Reproducing kernel hilbert space based single infrared image super resolution. Infrared Physics and Technology, 2016, 77, 104-113.	1.3	2
143	Nonconvex compressive video sensing. Journal of Electronic Imaging, 2016, 25, 063003.	0.5	2
144	Effect of NO ₂ and NH ₃ on the resistive switching behavior of W/Cu x O/Cu devices. Journal of Micromechanics and Microengineering, 2017, 27, 105013.	1.5	2

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145	Long Time Field Emission of Pt/MWCNT Hybrid nanowire for Electron Gun. , 2019, , .		2
146	Contact Annealing for Self-Soldering: In Situ Investigation into Interfaces between PVP-Coated Silver Nanoelectrodes and Carbon Nanotubes. ACS Applied Materials & Interfaces, 2019, 11, 36035-36043.	4.0	2
147	Multiple robot simultaneous localization and mapping. , 2011, , .		2
148	3D Periodic Magnetic Servoing System for Microrobot Actuation Using Decoupled Asynchronous Repetitive Control Approach. , 2021, , .		2
149	Nanorobotics. , 2010, , 1633-1659.		2
150	Measurement of a Bending Modulus of a Nanotube through Hybrid Nanorobotic Manipulation System inside SEM and TEM. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2005, 71, 1349-1354.	0.2	1
151	NANOROBOTIC MANIPULATION OF CARBON NANOTUBES INSIDE A TRANSMISSION ELECTRON MICROSCOPE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 114-119.	0.4	1
152	In Situ Characterization of Individual Carbon Nanotube Field Emitters with Single Crystalline Cu Tips. , 2006, , .		1
153	Optical Tracking of Multi-walled Carbon Nanotubes by Attaching Functionalized Quantum Dots. , 2006, , .		1
154	Batch fabrication of nanotube transducers. , 2007, , .		1
155	InGaAs/GaAs helical nanobelts as building blocks for nanoscale optoelectronic devices. , 2007, , .		1
156	Nanorobotic Spot Welding by Attogram Precision Metal Deposition from Copper-filled Carbon Nanotubes. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	1
157	Nanohelices as motion converters. , 2008, , .		1
158	Sphere-on-pillar optical nano-antennas. , 2010, , .		1
159	Rotary nanomotors based on head-to-head nanotube shuttles. , 2010, , .		1
160	Piezoresistivity characterization of silicon nanowires using a MEMS device. , 2011, , .		1
161	Towards nanotube fountain pen. , 2011, , .		1
162	In situ investigation of nanoelectrochemical systems. , 2014, , .		1

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163	Highly stable chemical N-doping of graphene nanomesh FET. , 2014, , .		1
164	Sensing ambient oxygen using a W/Cu\times/O/Cu memristor. , 2015, , .		1
165	Nanorobotics for NEMS Using Helical Nanostructures. , 2016, , 2659-2666.		1
166	Analytic approach for natural language based supervisory control of robotic manipulations. , 2016, , .		1
167	Analytic Approach for Robot Control Using Natural Language in Dynamic Environment. , 2018, , .		1
168	Nanomanipulation in Biomedical Applications. Current Robotics Reports, 2021, 2, 133-145.	5.1	1
169	An Indeterministic Vision-Based State Observer for Growing Magnetic Microrobot Motion Status Estimation. , 2022, , .		1
170	Method of fuzzy evaluation for machine tool design scheme. , 0, , .		0
171	Automatic generation of the kinematic scheme for hybrid serial-parallel types of robots. , 0, , .		0
172	Tungsten-rich deposits at anode using carbon nanotube emitters. , 0, , .		0
173	Recent topics of micro and nano mechatronics. , 0, , .		0
174	Calibration of Bending Moduli of Carbon Nanotube Probes for pico-Newton Force Measurement. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2004, 70, 427-432.	0.2	0
175	Single nanotube array based nano encoders. , 2005, , .		0
176	Large-Scale Synthesis of Herringbone Carbon Nanofibers on Nonsupported Nickel Catalyst. , 2006, , .		0
177	Site Controlled Nanotube Shell Etching for Interlayer Motion Based NEMS. , 2007, , .		0
178	Mechanical instabilities and piezoresistivity of SiGe/Si microtubes. , 2007, , .		0
179	NEMS-on-a-tip: Force sensors based on electromechanical coupling of individual multi-walled carbon nanotubes. , 2008, , .		0
180	Metal-filled carbon nanotubes for nanomechatronics. , 2008, , .		0

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181	Shaping electrodes for ultrahigh precision dielectrophoretic manipulation of carbon nanotubes. , 2008, , .		0
182	Solution-phase surface reconstruction and structural transformation in MWNTs. , 2009, , .		0
183	Metal-filled carbon nanotubes for nanofluidic systems: Modes of melting and evaporation. , 2009, , .		0
184	Optical properties of a nanomatch-like plasmonic structure. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 1783.	0.8	0
185	Electromigration-based deposition enabled by nanorobotic manipulation inside a transmission electron microscope. , 2011, , .		0
186	Single-bacterium resolution biosensors based on pristine graphenes. , 2012, , .		0
187	Nanosensors based on graphene inter-layer electronic properties: Sensing mechanism and selectivity. , 2012, , .		0
188	Towards simple methods for mass production of suspended graphene. , 2012, , .		0
189	Dynamic modeling and control of a nanotube-based linear motor. , 2013, , .		0
190	Carbon nanogears and nanotori via combustion flames. , 2013, , .		0
191	Nanorobotic Mass Transport. , 2013, , 137-153.		0
192	An inter-segment tunneling nanoscale force sensor: Modeling and simulation. , 2013, , .		0
193	Nanorobotic in situ characterization of nanowire memristors and “memsensing”; , 2013, , .		0
194	3D assembly and simulation of helical optical antenna-enhanced carbon nanotube IR sensors. , 2014, , .		0
195	Nanorobotic end-effectors: Design, fabrication, and in situ characterization. , 2014, , .		0
196	Helical micro- and nanostructures. Nanoscale, 2015, 7, 13277-13277.	2.8	0
197	Characterizing nanomaterial photoelectric properties using two photon laser scanning microscopy. , 2016, , .		0
198	Nanorobotic Spot Welding. , 2016, , 2632-2640.		0

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199	Modeling and simulation of an ultrasensitive electron tunneling position/force nanosensor. RSC Advances, 2016, 6, 8297-8302.	1.7	0
200	Nanorobotics. Springer Handbooks, 2017, , 559-584.	0.3	0
201	Fast photo-response of black phosphorus photodetectors. , 2017, , .		0
202	Plasmon-Enhanced Photovoltaic Characteristics of Black Phosphorus-MoS ₂ Heterojunction. , 2018, , .		0
203	An Interactive Scene Generation Using Natural Language. , 2019, , .		0
204	A Discrete Event Approach for Scene Generation conditioned on Natural Language. , 2019, , .		0
205	DESTRUCTIVE CONSTRUCTION OF NANOSTRUCTURES WITH CARBON NANOTUBES. The Proceedings of the International Conference on Motion and Vibration Control, 2002, 6.2, 1050-1055.	0.0	0
206	Fabrication and Characterization of NEMS-Based Single Nanotube Emitter Arrays. , 2005, , .		0
207	Nanorobotics. , 2007, , 1545-1574.		0
208	Analysis of the static behaviors of rolling guideways. , 1994, , 181-186.		0
209	Dielectrophoretic Nanoassembly of Nanotubes onto Nanoelectrodes. , 2016, , 774-780.		0
210	Multipoint sliding probe methods for in situ electrical transport property characterization of individual nanostructures. , 2011, , .		0