Guangyong Li

List of Publications by Year in descending order

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109	1,650	20	38
papers	citations	h-index	g-index
109	109	109	1801
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Nanometrology and Nanocharacterization: Keys to the Advancement of Nanotechnology [Guest Editorial]. IEEE Nanotechnology Magazine, 2021, 15, 3-3.	1.3	O
2	Advances in Scanning Ion Conductance Microscopy: Principles and Applications. IEEE Nanotechnology Magazine, 2021, 15, 17-25.	1.3	3
3	Advances in Dielectric Microspherical Lens Nanoscopy: Label-Free Superresolution Imaging. IEEE Nanotechnology Magazine, 2021, 15, 38-C3.	1.3	2
4	Multi-modal Intent Recognition Method for the Soft Hand Rehabilitation Exoskeleton. , 2020, , .		2
5	Novel Electron Transport Layer Material for Perovskite Solar Cells with Over 22% Efficiency and Longâ€Term Stability. Advanced Functional Materials, 2020, 30, 2004933.	14.9	55
6	Imaging with Optogenetically Engineered Living Cells as a Photodetector. Advanced Biology, 2019, 3, 1800319.	3.0	5
7	Bio-Syncretic Light-gated Field-Effect Transistor: Fabrication and Characterization., 2019,,.		O
8	Revealing the Working Mechanisms of Planar Perovskite Solar Cells With Cross-Sectional Surface Potential Profiling. IEEE Journal of Photovoltaics, 2018, 8, 125-131.	2.5	20
9	Micro-Nano Fabrication: Fabrication of Sub-Micrometer-Sized MoS2 Thin-Film Transistor by Phase Mode AFM Lithography (Small 49/2018). Small, 2018, 14, 1870239.	10.0	1
10	Fabrication of Subâ€Micrometerâ€Sized MoS ₂ Thinâ€Film Transistor by Phase Mode AFM Lithography. Small, 2018, 14, e1803273.	10.0	14
11	Multi-image encryption scheme based on quantum 3D Arnold transform and scaled Zhongtang chaotic system. Quantum Information Processing, 2018, 17, 1.	2.2	85
12	The application of Al ₂ TiO ₅ at the TiO ₂ /perovskite interface to decrease carrier losses in solar cells. Journal of Materials Chemistry A, 2017, 5, 3691-3698.	10.3	10
13	Quantum image encryption scheme with iterative generalized Arnold transforms and quantum image cycle shift operations. Quantum Information Processing, 2017, 16 , 1 .	2.2	106
14	Reconstruction of Kelvin probe force microscopy image with experimentally calibrated point spread function. Review of Scientific Instruments, 2017, 88, 033704.	1.3	2
15	A novel approach for extracting viscoelastic parameters of living cells through combination of inverse finite element simulation and Atomic Force Microscopy. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 373-384.	1.6	5
16	The characterization of defects states and charge injection barriers in perovskite solar cells. , 2017, , .		3
17	Fabrication, calibration, and recovery of chemical nanosensor array for ammonia detection., 2017,,.		1
18	Tandem polymer solar cells: simulation and optimization through a multiscale scheme. Beilstein Journal of Nanotechnology, 2017, 8, 123-133.	2.8	9

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19	Observation of lower defect density in CH3NH3Pb(I,Cl)3 solar cells by admittance spectroscopy. Applied Physics Letters, 2016, 108, .	3.3	22
20	Study of annealing induced nanoscale morphology change in organic solar cells with machine learning, , $2016, , .$		1
21	Poroelasticity of cell nuclei revealed through atomic force microscopy characterization. Applied Physics Letters, 2016, 109, .	3.3	15
22	A novel approach for preparation of CuO nanostructures on conductive substrate. , 2015, , .		0
23	Finite element simulation of stress relaxation process in living cells. , 2015, , .		0
24	Investigation of electrical properties of contact between Molybdenum disulfide and different metals. , $2015, \dots$		1
25	Simulation study of dielectrophoretic assembly of nanowire between electrode pairs. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	6
26	Investigation of Printingâ€Based Graded Bulkâ€Heterojunction Organic Solar Cells. Energy Technology, 2015, 3, 414-422.	3.8	4
27	Amplitude Modulation Mode of Scanning Ion Conductance Microscopy. Journal of the Association for Laboratory Automation, 2015, 20, 457-462.	2.8	11
28	Enhancing the performance of planar organo-lead halide perovskite solar cells by using a mixed halide source. Journal of Materials Chemistry A, 2015, 3, 963-967.	10.3	91
29	Nanostructured solar cell based on solution processed Cu ₂ ZnSnS ₄ nanoparticles and vertically aligned ZnO nanorod array. Physica Status Solidi - Rapid Research Letters, 2014, 8, 971-975.	2.4	9
30	Cu ₂ ZnSn(S _{1–<i>x</i>} Se <i>_x</i>) ₄ thin film solar cells prepared by waterâ€based solution process. Physica Status Solidi - Rapid Research Letters, 2014, 8, 223-227.	2.4	34
31	Simulation study on 3D trajectory of dielectrophoretic force assembled nanowires. , 2014, , .		1
32	Development of Mechanostimulated Patch-Clamp System for Cellular Physiological Study. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1138-1147.	5.8	15
33	Optimal shape for optical absorption in organic thin film solar cells. Structural and Multidisciplinary Optimization, 2014, 50, 437-451.	3.5	2
34	Multiscale Modeling and Simulation for Optimizing Polymer Bulk Heterojunction Solar Cells. IEEE Journal of Photovoltaics, 2013, 3, 300-309.	2.5	12
35	Investigation of charge transfer in nanostructured hybrid solar cell using Kelvin Probe Force Microscopy. , 2013, , .		0
36	Direct Observation of Hole Transfer from Semiconducting Polymer to Carbon Nanotubes. Nano Letters, 2013, 13, 2086-2091.	9.1	40

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37	Simultaneous topography imaging and molecular recognition with low crosstalk and high sensitivity. , 2013, , .		0
38	Prior knowledge based fast imaging for scanning ion conductance microscopy. , 2013, , .		0
39	Theoretical and experimental study of dielectrophoretic force controlled nanowires assembly. , 2013, , .		1
40	Multiscale modeling and simulation for optimizing polymer bulk heterojunction solar cells. , 2013, , .		0
41	Atomic Force Microscope-Based Nanorobotic System for Nanoassembly. , 2012, , 51-79.		2
42	Simulation study on trajectory of dielectrophoretic force controlled nanowires. , 2012, , .		3
43	Multiscale modeling and simulation for optimizing polymer bulk heterojunction solar cells. , 2012, , .		0
44	Recent Progress in Modeling, Simulation, and Optimization of Polymer Solar Cells. IEEE Journal of Photovoltaics, 2012, 2, 320-340.	2.5	60
45	Drift Compensation in AFM-Based Nanomanipulation by Strategic Local Scan. IEEE Transactions on Automation Science and Engineering, 2012, 9, 755-762.	5.2	20
46	Practical aspects of single-pass scan Kelvin probe force microscopy. Review of Scientific Instruments, 2012, 83, 113701.	1.3	47
47	Imaging and measuring the protein distribution of lymphoma cells using atomic force microscopy. , 2011, , .		0
48	Thickness optimization of organic solar cells by optical transfer matrix. , 2011, , .		8
49	Carbon Nanotubes for Organic Solar Cells. IEEE Nanotechnology Magazine, 2011, 5, 18-24.	1.3	14
50	Investigation of recombination loss in organic solar cells by simulating intensity-dependent current–voltage measurements. Solar Energy Materials and Solar Cells, 2011, 95, 2557-2563.	6.2	42
51	Probing protein-protein interaction forces using single-molecule force spectroscopy., 2011,,.		0
52	Selective manipulation of ZnO nanowires by controlled dielectrophoretic force., 2011,,.		4
53	Atomic Force Microscopy as Nanorobot. Methods in Molecular Biology, 2011, 736, 485-503.	0.9	6
54	Measuring the physical properties of the lymphoma cells using atomic force microscopy. , 2010, , .		1

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55	Performance investigation for a silicon nanowire FET biosensor using numerical simulation., 2010,,.		8
56	An experimental study on imaging burkitt's lymphoma cells by atomic force microscope. , 2010, , .		0
57	Modeling and simulation of organic solar cells. , 2010, , .		2
58	Simulation of a silicon nanowire FET biosensor for detecting Biotin/Streptavidin binding. , 2010, , .		7
59	Measuring the molecular force of Burkitt's lymphoma patient cells using AFM., 2010, , .		O
60	Scanning Kelvin Probe Force Microscopy for investigation of charge transport in carbon-nanotube enhanced organic photovoltaics. , 2010, , .		0
61	An experimental study on protein-protein interaction using atomic force microscopy. , 2010, , .		O
62	Effects of semiconducting and metallic single-walled carbon nanotubes on performance of bulk heterojunction organic solar cells. Applied Physics Letters, 2009, 94, .	3.3	51
63	Design, Manufacturing, and Testing of Single-Carbon-Nanotube-Based Infrared Sensors. IEEE Nanotechnology Magazine, 2009, 8, 245-251.	2.0	44
64	Compensation of drift contamination in AFM image by local scan. , 2009, , .		0
65	Performance analysis of bulk heterojunction solar cells fabricated by polymer:fullerene:carbon-nanotube composites., 2009,,.		1
66	Local scan for compensation of drift contamination in AFM based nanomanipulation. , 2009, , .		2
67	Enhanced Performance of Bulk Heterojunction Solar Cells Fabricated by Polymer:Fullerene:Carbon-Nanotube Composites. , 2008, , .		2
68	Atomic force yields a master nanomanipulator. IEEE Nanotechnology Magazine, 2008, 2, 13-17.	1.3	13
69	Sensor Referenced Real-Time Videolization of Atomic Force Microscopy for Nanomanipulations. IEEE/ASME Transactions on Mechatronics, 2008, 13, 76-85.	5.8	72
70	Detection and real-time correction of faulty visual feedback in atomic force microscopy based nanorobotic manipulation., 2008,,.		0
71	System positioning error compensated by local scan in atomic force microscope based nanomanipulation., 2008,,.		1
72	Real-time State Estimation and Fault Detection for Controlling Atomic Force Microscope Based Nano Manipualtion. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8263-8268.	0.4	0

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73	Sensor referenced guidance and control for robotic nanomanipulation. , 2007, , .		3
74	On-line sensing and display in Atomic Force Microscope based nanorobotic manipulation., 2007,,.		8
75	Study of DNA properties under controlled conditions using AFM based nano-robotics. , 2007, , .		0
76	Packaging carbon nanotube based infrared detector., 2007,,.		9
77	Real-time position error detecting in nanomanipulation using Kalman filter. , 2007, , .		2
78	Recognition of Membrane Receptor by Atomic Force Microscopy., 2007,,.		0
79	Nanotechnology and Membrane Receptors: Focus on Angiotensin II Receptors. Medical Clinics of North America, 2007, 91, 929-936.	2.5	0
80	Single carbon nanotube based photodiodes for infrared detection. , 2007, , .		18
81	CAD-guided automated nanoassembly using atomic force microscopy-based nonrobotics. IEEE Transactions on Automation Science and Engineering, 2006, 3, 208-217.	5.2	80
82	In Situ Sensing and Manipulation in Nano Bio Systems. , 2006, , .		0
83	Adaptable End Effector for Atomic Force Microscopy Based Nanomanipulation. IEEE Nanotechnology Magazine, 2006, 5, 628-642.	2.0	46
84	Nanoassembly and Packaging of Single Carbon Nanotube Based Transistors. , 2006, , .		0
85	Probing membrane proteins using atomic force microscopy. Journal of Cellular Biochemistry, 2006, 97, 1191-1197.	2.6	27
86	An AFM Method for in situ Probing Membrane Proteins under Physiological Condition., 2006,,.		2
87	Atomic Force Microscopy Sensing Using Multiple Modes. , 2006, , .		5
88	Tuning Semiconducting Properties of Single Carbon Nanotube for Fabrication of Nano Devices. , 2006, , .		2
89	In situ sensing and manipulation of molecules in biological samples using a nanorobotic system. Nanomedicine: Nanotechnology, Biology, and Medicine, 2005, 1, 31-40.	3.3	36
90	Investigation of angiotensin II type 1 receptor by atomic force microscopy with functionalized tip. Nanomedicine: Nanotechnology, Biology, and Medicine, 2005, 1, 306-312.	3.3	13

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91	Optimal control of flexible end effector in AFM based nanomanipulation. , 2005, , .		4
92	"Videolized―Atomic Force Microscopy for Interactive Nanomanipulation and Nanoassembly. IEEE Nanotechnology Magazine, 2005, 4, 605-615.	2.0	92
93	Calibration of AFM based nanomanipulation system. , 2004, , .		7
94	Assembly of nanostructure using AFM based nanomanipulation system. , 2004, , .		21
95	Development of Augmented Reality System for AFM-Based Nanomanipulation. IEEE/ASME Transactions on Mechatronics, 2004, 9, 358-365.	5.8	199
96	Calibration of a micromanipulation system. , 0, , .		8
97	3D nanomanipulation using atomic force microscopy. , 0, , .		18
98	Modeling of 3-d interactive forces in nanomanipulation. , 0, , .		11
99	Manipulating nano scale biological specimen in liquid., 0, , .		3
100	Augmented reality system for real-time nanomanipulation. , 0, , .		25
101	CAD-guided manufacturing of nanostructures using nanoparticles., 0,,.		1
102	Interactive DNA sequence and structure design for DNA nanotechnology and DNA computation. , 0, , .		0
103	Augmented reality enhanced "top-down" nano-manufacturing. , 0, , .		1
104	Experimental studies of DNA electrical properties using AFM based nano-manipulator. , 0 , , .		0
105	In situ single bio-molecule recognition by atomic force microscopy using functionalized tip., 0,,.		1
106	Functionalized Nano-Robot End Effector for in situ Sensing and Manipulation of Biological Specimen. , 0, , .		2
107	Planning and Control for Automated Nanorobotic Assembly. , 0, , .		8
108	An AFM Method for in situ Probing Membrane Proteins under Physiological Condition., 0,,.		0