

# Sen Gu

## List of Publications by Year in descending order

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34  
papers

625  
citations

840776

11  
h-index

580821

25  
g-index

34  
all docs

34  
docs citations

34  
times ranked

857  
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezoresistivity Characterization of Synthetic Silicon Nanowires Using a MEMS Device. <i>Journal of Microelectromechanical Systems</i> , 2011, 20, 959-967.	2.5	91
2	Suspended, Shrinkage-Free, Electrospun PLGA Nanofibrous Scaffold for Skin Tissue Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 10872-10877.	8.0	82
3	A hysteresis compensation method of piezoelectric actuator: Model, identification and control. <i>Control Engineering Practice</i> , 2009, 17, 1107-1114.	5.5	73
4	Automated Pick-Place of Silicon Nanowires. <i>IEEE Transactions on Automation Science and Engineering</i> , 2013, 10, 554-561.	5.2	59
5	A Closed-Loop Controlled Nanomanipulation System for Probing Nanostructures Inside Scanning Electron Microscopes. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016, 21, 1233-1241.	5.8	48
6	Automated Vitrification of Embryos: A Robotics Approach. <i>IEEE Robotics and Automation Magazine</i> , 2015, 22, 33-40.	2.0	36
7	MEMS-based platforms for mechanical manipulation and characterization of cells. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 123003.	2.6	36
8	A Stick-Slip Positioning Stage Robust to Load Variations. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016, 21, 2165-2173.	5.8	33
9	Automated Non-Invasive Measurement of Single Spermâ€™s Motility and Morphology. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 2257-2265.	8.9	28
10	Contact detection for nanomanipulation in a scanning electron microscope. <i>Ultramicroscopy</i> , 2012, 118, 61-66.	1.9	15
11	Wrinkle-Free, Sandwich, Electrospun PLGA/SF Nanofibrous Scaffold for Skin Tissue Engineering. <i>IEEE Nanotechnology Magazine</i> , 2018, 17, 675-679.	2.0	14
12	Injectable Silkâ€™Vaterite Composite Hydrogels with Tunable Sustained Drug Release Capacity. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6602-6609.	5.2	12
13	An Improved Visual Tracking Method in Scanning Electron Microscope. <i>Microscopy and Microanalysis</i> , 2012, 18, 612-620.	0.4	11
14	A novel mathematical model for controllable near-field electrospinning. <i>AIP Advances</i> , 2014, 4, .	1.3	9
15	The Development of Piezo-Driven Tools for Cellular Piercing. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 314.	2.5	9
16	Electrospinning system with tunable collector for fabricating threeâ€™dimensional nanofibrous structures. <i>Micro and Nano Letters</i> , 2014, 9, 24-27.	1.3	8
17	Effect of Cell Inner Pressure on Deposition Volume in Microinjection. <i>Langmuir</i> , 2018, 34, 10287-10292.	3.5	8
18	Development of stickâ€™slip nanopositioning stage capable of moving in vertical direction. <i>Microsystem Technologies</i> , 2020, 26, 2945-2954.	2.0	8

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19	A new open-loop driving method of piezoelectric actuator for periodic reference inputs. <i>Ultrasonics</i> , 2006, 44, e633-e637.	3.9	7
20	Automated Laser Ablation of Motile Sperm for Immobilization. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 323-329.	5.1	6
21	Study of polarization control model for piezoelectric actuator. <i>Ultrasonics</i> , 2006, 44, e731-e735.	3.9	5
22	An adaptive inverse method of control for a piezoelectric actuator. <i>Smart Materials and Structures</i> , 2006, 15, N14-N18.	3.5	5
23	Controlled ultrasonic micro-dissection of thin tissue sections. <i>Biomedical Microdevices</i> , 2014, 16, 567-573.	2.8	5
24	A piezoelectric stick-slip drive nanopositioner with large velocity under high load. <i>AIP Advances</i> , 2020, 10, 105027.	1.3	4
25	MGRO Recognition Algorithm-Based Artificial Potential Field for Mobile Robot Navigation. <i>Journal of Sensors</i> , 2016, 2016, 1-7.	1.1	3
26	A novel PRC signal drift reduction method for new developed SEM-based nanoindentation/nanoscratch instrument integrated with AFM. <i>Precision Engineering</i> , 2021, 69, 8-18.	3.4	3
27	A hysteresis model based on ellipse polar coordinate and microscopic polarization theory. <i>Journal of Electroceramics</i> , 2012, 28, 240-245.	2.0	2
28	Location detection of key areas in medical images based on Haar-like fusion contour feature learning. <i>Technology and Health Care</i> , 2020, 28, 391-399.	1.2	2
29	Note: Mechanical and electrical characterization of nanowires in scanning electron microscope. <i>Review of Scientific Instruments</i> , 2011, 82, 106105.	1.3	1
30	A Miniature Piezoresistive Transducer and a New Temperature Compensation Method for New Developed SEM-Based Nanoindentation Instrument Integrated With AFM Function. <i>IEEE Access</i> , 2020, 8, 104326-104335.	4.2	1
31	Stereo Matching Method Based on Combination Characteristic Cost Computing and Unstable Tree Reconstruction Optimization and Its Application in Medical Images. <i>Journal of Medical Imaging and Health Informatics</i> , 2020, 10, 646-653.	0.3	1
32	Current Control Amplifier for Piezoelectric Actuator in Precision Positioning Control. , 2007, , 1579.		0
33	The research on a novel PZT actuated precise tilt positioning system. , 2009, , .		0
34	A Simple Method Based on Vision for Obtaining Depth Information in Nanomanipulation. <i>Applied Physics Express</i> , 2011, 4, 126601.	2.4	0