Futoshi Iwata

List of Publications by Year in descending order

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53 papers	616 citations	623734 14 h-index	642732 23 g-index
53 all docs	53 docs citations	53 times ranked	704 citing authors

#	Article	IF	Citations
1	Sub-micrometer plasma-enhanced chemical vapor deposition using an atmospheric pressure plasma jet localized by a nanopipette scanning probe microscope. Journal of Micromechanics and Microengineering, 2022, 32, 015006.	2.6	5
2	Imaging of an Electret Film Fabricated on a Micro-Machined Energy Harvester by a Kelvin Probe Force Microscope. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-7.	4.7	4
3	Scanning ion-conductance microscopy with a double-barreled nanopipette for topographic imaging of charged chromosomes. Microscopy (Oxford, England), 2021, 70, 423-435.	1.5	6
4	Scanning ion conductance microscopy of isolated metaphase chromosomes in a liquid environment. Chromosome Research, 2021, 29, 95-106.	2.2	5
5	Micromachining of polymers using atmospheric pressure inductively coupled helium plasma localized by a scanning nanopipette probe microscope. Journal of Micromechanics and Microengineering, 2021, 31, 065008.	2.6	4
6	Local electroplating deposition for free-standing micropillars using a bias-modulated scanning ion conductance microscope. Microsystem Technologies, 2020, 26, 1333-1342.	2.0	9
7	Atmospheric He/O2 plasma jet fine etching with a scanning probe microscope. AIP Advances, 2020, 10, 095103.	1.3	9
8	Development of scanning capacitance force microscopy using the dissipative force modulation method. Measurement Science and Technology, 2020, 31, 035904.	2.6	0
9	Metals by Microâ€Scale Additive Manufacturing: Comparison of Microstructure and Mechanical Properties. Advanced Functional Materials, 2020, 30, 1910491.	14.9	52
10	Visualization of Sampling and Ionization Processes in Scanning Probe Electrospray Ionization Mass Spectrometry. Mass Spectrometry, 2019, 7, S0078-S0078.	0.6	7
11	Micropillar fabrication based on local electrophoretic deposition using a scanning ion conductance microscope with a theta nanopipette. Japanese Journal of Applied Physics, 2019, 58, 046503.	1.5	8
12	Direct Delivery of Cas9-sgRNA Ribonucleoproteins into Cells Using a Nanoneedle Array. Applied Sciences (Switzerland), 2019, 9, 965.	2.5	19
13	Development of atomic force microscopy combined with scanning electron microscopy for investigating electronic devices. AIP Advances, 2019, 9, .	1.3	3
14	Dynamic Change of Charged Nano-volume Liquid in Ambient Sampling and Ionization Method â€œSPESIâ€• Vacuum and Surface Science, 2019, 62, 516-521.	0.1	0
15	Scanning ion conductance microscopy for visualizing the three-dimensional surface topography of cells and tissues. Seminars in Cell and Developmental Biology, 2018, 73, 125-131.	5.0	27
16	Investigation of an n^{â^’} layer in a silicon fast recovery diode under applied bias voltages using Kelvin probe force microscopy. Japanese Journal of Applied Physics, 2018, 57, 08NB11.	1.5	4
17	Measurement of Lateral Removal Force for a Baked Polymer Particle on a Glass Plate. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2018, 31, 403-407.	0.3	1
18	A New Cell Separation Method Based on Antibody-Immobilized Nanoneedle Arrays for the Detection of Intracellular Markers. Nano Letters, 2017, 17, 7117-7124.	9.1	25

#	Article	IF	Citations
19	Local electrophoresis deposition assisted by laser trapping coupled with a spatial light modulator for three-dimensional microfabrication. Japanese Journal of Applied Physics, 2017, 56, 105502.	1.5	13
20	Fine processing of polymer surface by irradiating local atmospheric pressure plasma jets using helium source gas mixed with water vapor. , 2017, , .		0
21	Topographical imaging and charge mapping of charged surface using scanning ion conductance microscopy with a theta nanopipette. , 2017, , .		1
22	ATP-mediated Release of a DNA-binding Protein from a Silicon Nanoneedle Array. Electrochemistry, 2016, 84, 305-307.	1.4	6
23	Development of a scanning nanopipette probe microscope for fine processing using atmospheric pressure plasma jet. Japanese Journal of Applied Physics, 2016, 55, 08NB15.	1.5	6
24	Nanomanipulator based on a high-speed atomic force microscope capable of controlling a cantilever loading force using a magnetic solenoid. , 2016, , .		2
25	Mechanoporation of living cells for delivery of macromolecules using nanoneedle array. Journal of Bioscience and Bioengineering, 2016, 122, 748-752.	2.2	25
26	Reduced Sampling Size with Nanopipette for Tapping-Mode Scanning Probe Electrospray Ionization Mass Spectrometry Imaging. Mass Spectrometry, 2016, 5, S0054-S0054.	0.6	10
27	Development of a single cell electroporation method using a scanning ion conductance microscope with a theta nanopipette. Japanese Journal of Applied Physics, 2015, 54, 08LB04.	1.5	9
28	Oscillating high-aspect-ratio monolithic silicon nanoneedle array enables efficient delivery of functional bio-macromolecules into living cells. Scientific Reports, 2015, 5, 15325.	3.3	57
29	Measurement of shear force and adhesion force of a single adhesion cell using atomic force microscopy with a self-sensitive cantilever. , 2015, , .		1
30	Three-dimensional microfabrication using local electrophoresis deposition and a laser trapping technique. Optics Express, 2014, 22, 28109.	3.4	44
31	Directly measurement of shear force of a single adhesion cell using a self-sensitive cantilever. , 2014, , .		0
32	Nanomanipulation for the measurement of single-cell shear force using a self-sensitive cantilever. , 2014, , .		1
33	Microelectrophoresis deposition using a nanopipette for three-dimensional structures. , 2014, , .		5
34	A compact nano manipulator based on an atomic force microscope coupling with a scanning electron microscope or an inverted optical microscope. Journal of Micro-Bio Robotics, 2013, 8, 25-32.	2.1	4
35	Influence of charged samples on imaging in scanning ion conductance microscopy. , 2013, , .		0
36	Biological Application of Scanning Ion Conductance Microscopy. Hyomen Kagaku, 2013, 34, 482-487.	0.0	0

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37	Direct observation of potassium ions in HeLa cell with ion-selective nano-pipette probe. Journal of Applied Physics, 2012, 111, 044702.	2.5	17
38	Single cell scraper based on an Atomic Force Microscope. , 2012, , .		0
39	Development of novel nanomanipulators based on scanning probe microscopes. , 2011, , .		0
40	Interactive nano manipulator based on an atomic force microscope for scanning electron microscopy. , 2011, , .		6
41	Nanomanipulation of biological samples using a compact atomic force microscope under scanning electron microscope observation. Journal of Electron Microscopy, 2011, 60, 359-366.	0.9	25
42	Nanometer-Scale Deposition of Metal Plating Using a Nanopipette Probe in Liquid Condition. Japanese Journal of Applied Physics, 2011, 50, 08LB15.	1.5	15
43	Production of ultrafine atmospheric pressure plasma jet with nano-capillary. Thin Solid Films, 2010, 518, 3457-3460.	1.8	49
44	Development of a nano manipulator based on an atomic force microscope coupled with a haptic device: a novel manipulation tool for scanning electron microscopy. Archives of Histology and Cytology, 2009, 72, 271-278.	0.2	6
45	Fabrication of Metallic Nanoarrays using DNA Templates. Hyomen Kagaku, 2007, 28, 372-377.	0.0	0
46	Nanometer-Scale Metal Plating Using a Scanning Shear-Force Microscope with an Electrolyte-Filled Micropipette Probe. Japanese Journal of Applied Physics, 2004, 43, 4482-4485.	1.5	36
47	The use of capillary force for fabricating probe tips for scattering-type near-field scanning optical microscopes. Applied Physics Letters, 2003, 82, 1598-1600.	3.3	19
48	Nanowearing property of a fatigued polycarbonate surface studied by atomic force microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 666.	1.6	9
49	Local elasticity imaging of nano bundle structure of polycarbonate surface using atomic force microscopy. Nanotechnology, 2000, 11, 10-15.	2.6	31
50	Conductive atomic force microscopy study of InGaN films grown by hot-wall epitaxy with a mixed (Ga+In) source. Journal of Applied Physics, 2000, 88, 1670-1673.	2.5	7
51	Scratching on polystyrene thin film without bumps using atomic force microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1999, 17, 2452.	1.6	17
52	Shearing stress on the surface topography by scanning shearing stress microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 849.	1.6	3
53	Additive Manufacturing of Metal Micro-ring and Tube by Laser-Assisted Electrophoretic Deposition with Laguerreâ€“Gaussian Beam. Nanomanufacturing and Metrology, 0, , 1.	3.0	4