

# 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	Oscillating high-aspect-ratio monolithic silicon nanoneedle array enables efficient delivery of functional bio-macromolecules into living cells. <i>Scientific Reports</i> , 2015, 5, 15325.	3.3	57
2	Metals by Micro-Scale Additive Manufacturing: Comparison of Microstructure and Mechanical Properties. <i>Advanced Functional Materials</i> , 2020, 30, 1910491.	14.9	52
3	Production of ultrafine atmospheric pressure plasma jet with nano-capillary. <i>Thin Solid Films</i> , 2010, 518, 3457-3460.	1.8	49
4	Three-dimensional microfabrication using local electrophoresis deposition and a laser trapping technique. <i>Optics Express</i> , 2014, 22, 28109.	3.4	44
5	Nanometer-Scale Metal Plating Using a Scanning Shear-Force Microscope with an Electrolyte-Filled Micropipette Probe. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 4482-4485.	1.5	36
6	Local elasticity imaging of nano bundle structure of polycarbonate surface using atomic force microscopy. <i>Nanotechnology</i> , 2000, 11, 10-15.	2.6	31
7	Scanning ion conductance microscopy for visualizing the three-dimensional surface topography of cells and tissues. <i>Seminars in Cell and Developmental Biology</i> , 2018, 73, 125-131.	5.0	27
8	Nanomanipulation of biological samples using a compact atomic force microscope under scanning electron microscope observation. <i>Journal of Electron Microscopy</i> , 2011, 60, 359-366.	0.9	25
9	Mechanoporation of living cells for delivery of macromolecules using nanoneedle array. <i>Journal of Bioscience and Bioengineering</i> , 2016, 122, 748-752.	2.2	25
10	A New Cell Separation Method Based on Antibody-Immobilized Nanoneedle Arrays for the Detection of Intracellular Markers. <i>Nano Letters</i> , 2017, 17, 7117-7124.	9.1	25
11	The use of capillary force for fabricating probe tips for scattering-type near-field scanning optical microscopes. <i>Applied Physics Letters</i> , 2003, 82, 1598-1600.	3.3	19
12	Direct Delivery of Cas9-sgRNA Ribonucleoproteins into Cells Using a Nanoneedle Array. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 965.	2.5	19
13	Scratching on polystyrene thin film without bumps using atomic force microscopy. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1999, 17, 2452.	1.6	17
14	Direct observation of potassium ions in HeLa cell with ion-selective nano-pipette probe. <i>Journal of Applied Physics</i> , 2012, 111, 044702.	2.5	17
15	Nanometer-Scale Deposition of Metal Plating Using a Nanopipette Probe in Liquid Condition. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 08LB15.	1.5	15
16	Local electrophoresis deposition assisted by laser trapping coupled with a spatial light modulator for three-dimensional microfabrication. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 105502.	1.5	13
17	Reduced Sampling Size with Nanopipette for Tapping-Mode Scanning Probe Electrospray Ionization Mass Spectrometry Imaging. <i>Mass Spectrometry</i> , 2016, 5, S0054-S0054.	0.6	10
18	Nanowearing property of a fatigued polycarbonate surface studied by atomic force microscopy. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001, 19, 666.	1.6	9

#	ARTICLE	IF	CITATIONS
19	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
20	Local electroplating deposition for free-standing micropillars using a bias-modulated scanning ion conductance microscope. Microsystem Technologies, 2020, 26, 1333-1342.	2.0	9
21	Atmospheric He/O <sub>2</sub> plasma jet fine etching with a scanning probe microscope. AIP Advances, 2020, 10, 095103.	1.3	9
22	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
23	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
24	Visualization of Sampling and Ionization Processes in Scanning Probe Electrospray Ionization Mass Spectrometry. Mass Spectrometry, 2019, 7, S0078-S0078.	0.6	7
25	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
26	Interactive nano manipulator based on an atomic force microscope for scanning electron microscopy. , 2011, , .		6
27	ATP-mediated Release of a DNA-binding Protein from a Silicon Nanoneedle Array. Electrochemistry, 2016, 84, 305-307.	1.4	6
28	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
29	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
30	Microelectrophoresis deposition using a nanopipette for three-dimensional structures. , 2014, , .		5
31	Scanning ion conductance microscopy of isolated metaphase chromosomes in a liquid environment. Chromosome Research, 2021, 29, 95-106.	2.2	5
32	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
33	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
34	Investigation of an n <sup>+</sup> 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
35	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
36	Additive Manufacturing of Metal Micro-ring and Tube by Laser-Assisted Electrophoretic Deposition with Laguerre-Gaussian Beam. Nanomanufacturing and Metrology, 0, , 1.	3.0	4

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Development of atomic force microscopy combined with scanning electron microscopy for investigating electronic devices. AIP Advances, 2019, 9, .	1.3	3
40	Nanomanipulator based on a high-speed atomic force microscope capable of controlling a cantilever loading force using a magnetic solenoid. , 2016, , .		2
41	Nanomanipulation for the measurement of single-cell shear force using a self-sensitive cantilever. , 2014, , .		1
42	Measurement of shear force and adhesion force of a single adhesion cell using atomic force microscopy with a self-sensitive cantilever. , 2015, , .		1
43	Topographical imaging and charge mapping of charged surface using scanning ion conductance microscopy with a theta nanopipette. , 2017, , .		1
44	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
45	Development of novel nanomanipulators based on scanning probe microscopes. , 2011, , .		0
46	Single cell scraper based on an Atomic Force Microscope. , 2012, , .		0
47	Influence of charged samples on imaging in scanning ion conductance microscopy. , 2013, , .		0
48	Biological Application of Scanning Ion Conductance Microscopy. Hyomen Kagaku, 2013, 34, 482-487.	0.0	0
49	Directly measurement of shear force of a single adhesion cell using a self-sensitive cantilever. , 2014, , .		0
50	Fine processing of polymer surface by irradiating local atmospheric pressure plasma jets using helium source gas mixed with water vapor. , 2017, , .		0
51	Development of scanning capacitance force microscopy using the dissipative force modulation method. Measurement Science and Technology, 2020, 31, 035904.	2.6	0
52	Fabrication of Metallic Nanoarrays using DNA Templates. Hyomen Kagaku, 2007, 28, 372-377.	0.0	0
53	Dynamic Change of Charged Nano-volume Liquid in Ambient Sampling and Ionization Method "SPESI" Vacuum and Surface Science, 2019, 62, 516-521.	0.1	0