

Takatoki Yamamoto

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

1,225
citations

16
h-index

34
g-index

79
ext. papers

1,392
ext. citations

3.1
avg, IF

4.32
L-index

#	Paper	IF	Citations
67	An integrated microfluidic system for long-term perfusion culture and on-line monitoring of intestinal tissue models. <i>Lab on A Chip</i> , 2008 , 8, 741-6	7.2	219
66	Integration of gene amplification and capillary gel electrophoresis on a polydimethylsiloxane-glass hybrid microchip. <i>Electrophoresis</i> , 2001 , 22, 328-33	3.6	138
65	PDMS-glass hybrid microreactor array with embedded temperature control device. Application to cell-free protein synthesis. <i>Lab on A Chip</i> , 2002 , 2, 197-202	7.2	101
64	Microfabricated flow-through device for DNA amplification towards in situ gene analysis. <i>Chemical Engineering Journal</i> , 2004 , 101, 151-156	14.7	89
63	Electroactive microwell arrays for highly efficient single-cell trapping and analysis. <i>Small</i> , 2011 , 7, 3239-47	4.1	74
62	. <i>IEEE Transactions on Industry Applications</i> , 2000 , 36, 1010-1017	4.3	71
61	Stable immobilization of rat hepatocytes as hemispheroids onto collagen-conjugated poly-dimethylsiloxane (PDMS) surfaces: importance of direct oxygenation through PDMS for both formation and function. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 1472-81	4.9	55
60	Enhanced maintenance and functions of rat hepatocytes induced by combination of on-site oxygenation and coculture with fibroblasts. <i>Journal of Biotechnology</i> , 2008 , 133, 253-60	3.7	53
59	Quantification of Virus Particles Using Nanopore-Based Resistive-Pulse Sensing Techniques. <i>Frontiers in Microbiology</i> , 2016 , 7, 1500	5.7	47
58	Development of microfluidic device for electrical/physical characterization of single cell. <i>Journal of Microelectromechanical Systems</i> , 2006 , 15, 287-295	2.5	34
57	A microfluidic in situ analyzer for ATP quantification in ocean environments. <i>Lab on A Chip</i> , 2011 , 11, 3508-15	7.2	30
56	Rapid fabrication technique of nano/microfluidic device with high mechanical stability utilizing two-step soft lithography. <i>Sensors and Actuators B: Chemical</i> , 2014 , 201, 407-412	8.5	20
55	Direct measurement of electric double layer in a nanochannel by electrical impedance spectroscopy. <i>Microfluidics and Nanofluidics</i> , 2013 , 14, 983-988	2.8	20
54	Study on 172-nm vacuum ultraviolet light surface modifications of polydimethylsiloxane for micro/nanofluidic applications. <i>Surface and Interface Analysis</i> , 2011 , 43, 1271-1276	1.5	20
53	Nanofluidic single-molecule sorting of DNA: a new concept in separation and analysis of biomolecules towards ultimate level performance. <i>Nanotechnology</i> , 2010 , 21, 395502	3.4	20
52	An electroactive microwell array for trapping and lysing single-bacterial cells. <i>Biomicrofluidics</i> , 2011 , 5, 24114	3.2	20
51	Nanometer-level high-accuracy molding using a photo-curable silicone elastomer by suppressing thermal shrinkage. <i>RSC Advances</i> , 2015 , 5, 10172-10177	3.7	16

50	Modification of the glass surface property in PDMS-glass hybrid microfluidic devices. <i>Analytical Sciences</i> , 2012 , 28, 39-44	1.7	16
49	On-chip single embryo coculture with microporous-membrane-supported endometrial cells. <i>IEEE Transactions on Nanobioscience</i> , 2009 , 8, 318-24	3.4	15
48	Active immobilization of biomolecules on a hybrid three-dimensional nanoelectrode by dielectrophoresis for single-biomolecule study. <i>Nanotechnology</i> , 2007 , 18, 495503	3.4	14
47	Damage-less Handling of Exosomes Using an Ion-depletion Zone in a Microchannel. <i>Analytical Sciences</i> , 2018 , 34, 875-880	1.7	13
46	Integrated in situ genetic analyzer for microbiology in extreme environments. <i>RSC Advances</i> , 2011 , 1, 1567	3.7	13
45	Evaluation of cell-free protein synthesis using PDMS-based microreactor arrays. <i>Analytical Sciences</i> , 2008 , 24, 243-6	1.7	12
44	Fabrication of Gold Nanodot Array on Plastic Films for Bio-sensing Applications. <i>Procedia CIRP</i> , 2013 , 5, 47-52	1.8	9
43	Nonlinear electrical impedance spectroscopy of viruses using very high electric fields created by nanogap electrodes. <i>Frontiers in Microbiology</i> , 2015 , 6, 940	5.7	9
42	Solid-state bonding of silicone elastomer to glass by vacuum oxygen plasma, atmospheric plasma, and vacuum ultraviolet light treatment. <i>Surface and Interface Analysis</i> , 2013 , 45, 817-822	1.5	8
41	Solid state direct bonding of polymers by vacuum ultraviolet light below 160 nm. <i>Applied Surface Science</i> , 2017 , 419, 319-327	6.7	7
40	Polymerase chain reaction-based biochemical logic gate coupled with cell-free transcription-translation of green fluorescent protein as a report gate. <i>Chemical Communications</i> , 2008 , 3771-3	5.8	7
39	Chemical delivery microsystem for single-molecule analysis using multilaminar continuous flow. <i>Enzyme and Microbial Technology</i> , 2006 , 39, 519-525	3.8	7
38	Effects of Morphology of Nanodots on Localized Surface Plasmon Resonance Property. <i>International Journal of Automation Technology</i> , 2014 , 8, 74-82	0.8	7
37	Nanoscale three-dimensional optical visualization method for a deformation of elastomer printing plate to realize soft nano-printing technology. <i>Surface and Interface Analysis</i> , 2015 , 47, 723-727	1.5	6
36	Pneumatic handling of droplets on-demand on a microfluidic device for seamless processing of reaction and electrophoretic separation. <i>Electrophoresis</i> , 2010 , 31, 3719-26	3.6	6
35	Design Optimization and Evaluation of a Bioluminescence Detection Part on a Microfluidic Device for in situ ATP Quantification. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2009 , 129, 73-76	0.2	5
34	A Novel Fabrication Technique for Liquid-Tight Microchannels by Combination of a Paraffin Polymer and a Photo-Curable Silicone Elastomer. <i>Materials</i> , 2016 , 9,	3.5	5
33	Fabrication of an Anti-Reflective and Super-Hydrophobic Structure by Vacuum Ultraviolet Light-Assisted Bonding and Nanoscale Pattern Transfer. <i>Micromachines</i> , 2018 , 9,	3.3	4

32	Nanoscale etching and flattening of metals with ozone water. <i>Nano Letters</i> , 2012 , 12, 3158-61	11.5	4
31	Microfluidic Device with Integrated Glucose Sensor for Cell-Based Assay in Toxicology. <i>Journal of Robotics and Mechatronics</i> , 2010 , 22, 594-600	0.7	4
30	Vacuum ultraviolet light assisted bonding and nanoscale pattern transfer method for polydimethylsiloxane. <i>Microelectronic Engineering</i> , 2017 , 176, 116-120	2.5	3
29	Microfluidic Perfusion Culture of Human Hepatocytes. <i>Journal of Robotics and Mechatronics</i> , 2007 , 19, 550-556	0.7	3
28	Subsurface investigation of the surface modification of polydimethylsiloxane by 172-nm vacuum ultraviolet irradiation using ToF-SIMS and VUV spectrometry. <i>Surface and Interface Analysis</i> , 2018 , 50, 752-756	1.5	2
27	Conformation dependent non-linear impedance response of DNA in nanofluidic device 2015 ,		2
26	Application of cell-free expression of GFP for evaluation of microsystems. <i>Frontiers in Bioscience - Landmark</i> , 2012 , 17, 1931-9	2.8	2
25	A rapid method for optimizing running temperature of electrophoresis through repetitive on-chip CE operations. <i>International Journal of Molecular Sciences</i> , 2011 , 12, 4271-81	6.3	2
24	Molecular surgery of DNA 1998 , 3202, 228		2
23	Study of Automated Embryo Manipulation Using Dynamic Microarray: Trapping, Culture and Collection. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2009 , 129, 245-251	0.2	2
22	Single-Molecule Detection of DNA in a Nanochannel by High-Field Strength-Assisted Electrical Impedance Spectroscopy. <i>Micromachines</i> , 2019 , 10,	3.3	1
21	Development of Virus Concentration Device by Controlling Ion Depletion Zone for Ultrasensitive Virus Sensing. <i>Electronics and Communications in Japan</i> , 2017 , 100, 56-63	0.4	1
20	Single-molecule Measurement and Its Application by Electric Impedance Spectroscopy Using Nanochannel. <i>Bunseki Kagaku</i> , 2015 , 64, 431-440	0.2	1
19	Direct Evaluation of the Electrokinetic Properties of Electrolytes in a Nanochannel using Electrical Impedance Spectroscopy. <i>Israel Journal of Chemistry</i> , 2014 , 54, 1607-1614	3.4	1
18	Development of On-chip Coculture System for Cytotoxicity Test Using Caco-2 and Hep G2. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2009 , 129, 252-258	0.2	1
17	Development of Micro Perfusion Cell Culture Device to Create In Vivo-Like Environments for Long-Period and Real-Time Monitoring of Cells Activities 2006 ,		1
16	Direct Bonding between Silicone and Glass by Atmospheric-Pressure Surface Modification. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2011 , 131, 159-164	0.2	1
15	Measurement of low-grade inflammation of the esophageal mucosa with electrical conductivity shows promise in assessing PPI responsiveness in patients with GERD. <i>American Journal of Physiology - Renal Physiology</i> , 2021 , 321, G29-G40	5.1	1

14	Chemical Lift-Off Process Using Acetone Ink for Easy Fabrication of Metallic Nano/Microstructures. <i>International Journal of Automation Technology</i> , 2020 , 14, 229-237	0.8	○
13	On-chip Glucose Sensor for Online Measurement of Cell Activities. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2010 , 130, 476-483	0.2	○
12	Measurements of Nonlinear Electrical Impedances by Virtue of Induced Conformational Changes in DNAs. <i>Journal of Robotics and Mechatronics</i> , 2010 , 22, 601-607	0.7	○
11	Study of Metal Etching Using Ozone Water. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 2015 , 193, 65-72	0.4	
10	Optical property of metallic nanodot arrays fabricated by combination of nano plastic forming and thermal dewetting method. <i>Transactions of the JSME (in Japanese)</i> , 2014 , 80, MN0272-MN0272	0.2	
9	Single molecular level analysis and processing in nanochannels. <i>Frontiers in Bioscience - Scholar</i> , 2012 , 4, 1461-74	2.4	
8	Biomolecular nano-flow-sensor to measure near-surface flow. <i>Nanoscale Research Letters</i> , 2009 , 5, 296-301		
7	Controlling the expression ratio of two proteins by inserting a terminator between the two genes. <i>Nucleic Acids Symposium Series</i> , 2006 , 329-30		
6	Development of Hybrid Microreactor for Protein Synthesis. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2001 , 121, 163-168	0.2	
5	Development of a Platform for Single-molecular Dynamics Study-Manipulations and Analysis using Microfluidic Devices and Nano-electrodes-. <i>Hyomen Kagaku</i> , 2006 , 27, 102-107		
4	Development of Virus Concentration Device by Controlling Ion Depletion Zone for Ultra-sensitive Virus Sensing. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2016 , 136, 363-369	0.2	
3	Fabrication Method for Moth-eye Structure Made of Glass Using Vacuum Ultraviolet Light Vitrification of Silicone. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2016 , 136, 488-492	0.2	
2	Initial Evaluation of the Continuous Sampling Method using Liquid-gate Realized by Porous Membrane and Hydrophilic/Hydrophobic Interface. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2017 , 137, 169-173	0.2	
1	Study of Metal Etching using Ozone Water. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2012 , 132, 413-419	0.2	