

Osamu Tabata

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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.

229
papers

2,910
citations

24
h-index

49
g-index

267
ext. papers

3,326
ext. citations

2.2
avg, IF

4.67
L-index

#	Paper	IF	Citations
229	Anisotropic etching of silicon in TMAH solutions. <i>Sensors and Actuators A: Physical</i> , 1992 , 34, 51-57	3.9	349
228	Mechanical property measurements of thin films using load-deflection of composite rectangular membranes. <i>Sensors and Actuators</i> , 1989 , 20, 135-141		293
227	Specimen size effect on tensile strength of surface-micromachined polycrystalline silicon thin films. <i>Journal of Microelectromechanical Systems</i> , 1998 , 7, 106-113	2.5	272
226	Ciliary motion actuator using self-oscillating gel. <i>Sensors and Actuators A: Physical</i> , 2002 , 95, 234-238	3.9	103
225	Moving mask UV lithography for three-dimensional structuring. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 199-206	2	98
224	Replica multichannel polymer chips with a network of sacrificial channels sealed by adhesive printing method. <i>Lab on A Chip</i> , 2005 , 5, 472-8	7.2	74
223	Stafne's bone cavity. Classification based on outline and content determined by computed tomography. <i>Oral Surgery, Oral Medicine, and Oral Pathology</i> , 1993 , 76, 375-80		67
222	Monolithic pyroelectric infrared image sensor using PVDF thin film. <i>Sensors and Actuators A: Physical</i> , 1998 , 66, 237-243	3.9	62
221	A novel fabrication process of 3D microstructures by double exposure in deep x-ray lithography (D2XRL). <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 2056-2062	2	61
220	Integrated heart/cancer on a chip to reproduce the side effects of anti-cancer drugs in vitro. <i>RSC Advances</i> , 2017 , 7, 36777-36786	3.7	60
219	High-performance genetic analysis on microfabricated capillary array electrophoresis plastic chips fabricated by injection molding. <i>Analytical Chemistry</i> , 2005 , 77, 2140-6	7.8	58
218	pH-controlled TMAH etchants for silicon micromachining. <i>Sensors and Actuators A: Physical</i> , 1996 , 53, 335-339	3.9	52
217	Noise-induced chaos in the electrostatically actuated MEMS resonators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 2903-2910	2.3	48
216	Fast-response silicon flow sensor with an on-chip fluid temperature sensing element. <i>IEEE Transactions on Electron Devices</i> , 1986 , 33, 361-365	2.9	47
215	Hybrid dynamic coating with n-dodecyl beta-D-maltoside and methyl cellulose for high-performance carbohydrate analysis on poly(methyl methacrylate) chips. <i>Analytical Chemistry</i> , 2006 , 78, 1452-8	7.8	44
214	Imaging and measuring the rituximab-induced changes of mechanical properties in B-lymphoma cells using atomic force microscopy. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 404, 689-94	3.4	40
213	Mixing speed-controlled gold nanoparticle synthesis with pulsed mixing microfluidic system. <i>Microfluidics and Nanofluidics</i> , 2010 , 9, 1165-1174	2.8	34

212	Long-term outcomes of nonsurgical treatment in nonreducing anteriorly displaced disk of the temporomandibular joint. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 1998 , 85, 258-67			33
211	. <i>Journal of Microelectromechanical Systems</i> , 2012 , 21, 586-595	2.5		30
210	Clinical symptoms of open lock position of the condyle. Relation to anterior dislocation of the temporomandibular joint. <i>Oral Surgery, Oral Medicine, and Oral Pathology</i> , 1992 , 74, 143-8			29
209	Monolithic pressure-flow sensor. <i>IEEE Transactions on Electron Devices</i> , 1987 , 34, 2456-2462	2.9		28
208	Reliability of ultrasonography and sialography in the diagnosis of Sjögren's syndrome. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 1997 , 83, 400-7			27
207	Two-axis detection resonant accelerometer based on rigidity change. <i>Sensors and Actuators A: Physical</i> , 1999 , 75, 53-59	3.9		26
206	Micro fabricated tunable bending stiffness devices. <i>Sensors and Actuators A: Physical</i> , 2001 , 89, 119-123	3.9		24
205	Micromachined Tactile Sensor for Soft-Tissue Compliance Detection. <i>Journal of Microelectromechanical Systems</i> , 2012 , 21, 635-645	2.5		23
204	Micropowder blasting with nanoparticles dispersed polymer mask for rapid prototyping of glass chip. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 1236-1241	2		23
203	Electrostatic Tensile Testing Device With Nanonewton and Nanometer Resolution and Its Application to C_{60} Nanowire Testing. <i>Journal of Microelectromechanical Systems</i> , 2012 , 21, 523-529	2.5		22
202	Tensile and Tensile-Mode Fatigue Testing of Microscale Specimens in Constant Humidity Environment. <i>Experimental Mechanics</i> , 2010 , 50, 509-516	2.6		22
201	Morphologic analysis of odontogenic cysts with computed tomography. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 1997 , 83, 712-8			22
200	Reduction of surface roughness and aperture size effect for etching of Si with XeF ₂ . <i>Journal of Micromechanics and Microengineering</i> , 2002 , 12, 911-916	2		22
199	Range of motion of the temporomandibular joint in rheumatoid arthritis: relationship to the severity of disease. <i>Cranio - Journal of Craniomandibular Practice</i> , 1998 , 16, 162-7	1.2		22
198	Tensile Testing of Polycrystalline Silicon Thin Films Using Electrostatic Force Grip.. <i>IEEE Transactions on Sensors and Micromachines</i> , 1996 , 116, 441-446	0.2		22
197	Control of internal stress and Young's modulus of Si ₃ N ₄ and polycrystalline silicon thin films using the ion implantation technique. <i>Applied Physics Letters</i> , 1990 , 56, 1314-1316	3.4		22
196	Investigation of a New High Sensitive Micro-Electromechanical Strain Gauge Sensor Based on Graphene Piezoresistivity. <i>Key Engineering Materials</i> , 2014 , 605, 207-210	0.4		21
195	Highly conductive transparent F-doped tin oxide films were prepared by photo-CVD and thermal-CVD. <i>Thin Solid Films</i> , 1996 , 281-282, 228-231	2.2		21

194	Fabrication of Plastic Micro Tip Array using Laser Micromachining of Nanoparticles Dispersed Polymer and Micromolding. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2006 , 126, 7-13	0.2	21
193	Validation of X-ray lithography and development simulation system for moving mask deep X-ray lithography. <i>Journal of Microelectromechanical Systems</i> , 2006 , 15, 159-168	2.5	19
192	Multiple ion sensor array. <i>Sensors and Actuators B: Chemical</i> , 1990 , 1, 8-11	8.5	19
191	Phenotypic and transcriptional modulation of human pluripotent stem cells induced by nano/microfabrication materials. <i>Advanced Healthcare Materials</i> , 2013 , 2, 287-91	10.1	18
190	. <i>Journal of Microelectromechanical Systems</i> , 2010 , 19, 1058-1069	2.5	18
189	Simulation of mechanical properties of epoxy-based chemically amplified resist by coarse-grained molecular dynamics. <i>Polymer</i> , 2012 , 53, 4834-4842	3.9	17
188	Imaging of a band for DNA fragment migrating in microchannel on integrated microchip. <i>Materials Science and Engineering C</i> , 2000 , 12, 33-36	8.3	17
187	A three-dimensional microstructuring technique exploiting the positive photoresist property. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 065005	2	16
186	Effects of aperture size and pressure on XeF ₂ etching of silicon. <i>Microsystem Technologies</i> , 2002 , 9, 11-16.7		16
185	Graphene film development on flexible substrate using a new technique: temperature dependency of gauge factor for graphene-based strain sensors. <i>Sensor Review</i> , 2016 , 36, 140-147	1.4	16
184	. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 746-752	2.5	15
183	Dependence of the hardness of titanium nitride prepared by plasma chemical vapour deposition on the gas flow rate and the r.f. power. <i>Thin Solid Films</i> , 1986 , 137, L49-L50	2.2	15
182	Tensile Strength of Silicon Nanowires Batch-Fabricated into Electrostatic MEMS Testing Device. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 880	2.6	12
181	Mechanical calibration of MEMS springs with sub-micro-Newton force resolution. <i>Sensors and Actuators A: Physical</i> , 2008 , 143, 136-142	3.9	12
180	Thin-Film Characterization Using the Bulge Test. <i>Advanced Micro & Nanosystems</i> , 2007 , 67-121		12
179	Shape memory thin films formed with carousel-type magnetron sputtering apparatus. <i>Smart Materials and Structures</i> , 2005 , 14, S216-S222	3.4	12
178	Electrolytes in erythrocytes of patients with depressive disorders. <i>Psychiatry and Clinical Neurosciences</i> , 1998 , 52, 529-33	6.2	12
177	. <i>Journal of Microelectromechanical Systems</i> , 2015 , 24, 1856-1867	2.5	11

176	Investigating the sequence-dependent mechanical properties of DNA nicks for applications in twisted DNA nanostructure design. <i>Nucleic Acids Research</i> , 2019 , 47, 93-102	20.1	11
175	Direct measurement of transversely isotropic DNA nanotube by force-distance curve-based atomic force microscopy. <i>Micro and Nano Letters</i> , 2015 , 10, 513-517	0.9	10
174	Moving mask deep X-ray lithography system with multi stage for 3-D microfabrication. <i>Microsystem Technologies</i> , 2002 , 8, 93-98	1.7	10
173	Digital compensated capacitive pressure sensor using CMOS technology for low-pressure measurements. <i>Sensors and Actuators A: Physical</i> , 1992 , 34, 173-177	3.9	10
172	Carbon Nanotubes in Microelectronic Applications. <i>Advanced Micro & Nanosystems</i> , 2008 , 1-41		10
171	ALA-induced fluorescence detection with photoresist-based microfluidic cell sorter for bladder cancer diagnosis. <i>Sensors and Actuators B: Chemical</i> , 2015 , 213, 547-557	8.5	9
170	Design and fabrication of a differential capacitive three-axis SOI accelerometer using vertical comb electrodes. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2009 , 4, 345-351	1	9
169	The significance of posterior open bite after anterior repositioning splint therapy for anteriorly displaced disk of the temporomandibular joint. <i>Cranio - Journal of Craniomandibular Practice</i> , 1993 , 11, 146-52	1.2	9
168	Nanopore Fabrication of Two-Dimensional Materials on SiO ₂ Membranes Using He Ion Microscopy. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 727-730	2.6	8
167	Frequency response of in-plane coupled resonators for investigating the acceleration sensitivity of MEMS tuning fork gyroscopes. <i>Microsystem Technologies</i> , 2012 , 18, 797-803	1.7	8
166	Fatigue characteristics of polycrystalline silicon thin-film membrane and its dependence on humidity. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 035032	2	8
165	. <i>Journal of Microelectromechanical Systems</i> , 2004 , 13, 1-6	2.5	8
164	3-Dimensional Microstructure Fabrication using Multiple Moving Mask Deep X-ray Lithography Process. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2000 , 120, 321-326	0.2	8
163	Effect of substrate bias voltage on tensile properties of single crystal silicon microstructure fully coated with plasma CVD diamond-like carbon film. <i>Applied Surface Science</i> , 2018 , 443, 48-54	6.7	7
162	On-chip fabrication of alkali-metal vapor cells utilizing an alkali-metal source tablet. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 115003	2	7
161	A high-efficient driving isolated Drive-by-Microwave half-bridge gate driver for a GaN inverter 2016		6
160	A Drive-by-Microwave isolated gate driver with a high-speed voltage monitoring 2014 ,		6
159	High-temperature tensile testing machine for investigation of brittle-ductile transition behavior of single crystal silicon microstructure. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 06FP04	1.4	6

158	Body on a Chip: Re-Creation of a Living System In Vitro. <i>IEEE Nanotechnology Magazine</i> , 2013 , 7, 6-14	1.7	6
157	A Closer Look at DNA Nanotechnology. <i>IEEE Nanotechnology Magazine</i> , 2010 , 4, 13-17	1.7	6
156	Three-dimensional simulation of powder blasting with a polymer mask using a cellular automaton. <i>Journal of Micromechanics and Microengineering</i> , 2008 , 18, 055010	2	6
155	Design Construction of Beam Structured Vertical Drive SMA Thin Film Actuator for Small Tactile Display. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2008 , 128, 151-160	0.2	6
154	Design and Simulation of a Tactile Sensor for Soft-Tissue Compliance Detection. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2008 , 128, 186-192	0.2	6
153	Infrared linear image sensor using a poly-Si pn junction diode array. <i>Infrared Physics</i> , 1992 , 33, 229-236		6
152	A compact GaN Bi-directional switching diode with a GaN Bi-directional power switch and an Isolated gate driver 2016 ,		6
151	Tensile fracture of integrated single-crystal silicon nanowire using MEMS electrostatic testing device. <i>Procedia Structural Integrity</i> , 2016 , 2, 1405-1412	1	6
150	Fracture strength of silicon torsional mirror resonators fully coated with submicrometer-thick PECVD DLC film. <i>Sensors and Actuators A: Physical</i> , 2019 , 286, 28-34	3.9	6
149	Coarse-Grained Molecular Dynamics Model of Double-Stranded DNA for DNA Nanostructure Design. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 5033-5039	3.4	5
148	Tuning porosity and radial mechanical properties of DNA origami nanotubes via crossover design. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 06GJ02	1.4	5
147	Geometrical compensation for mode-matching of a (100) silicon ring resonator for a vibratory gyroscope. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SDDL06	1.4	5
146	A compact Drive-by-Microwave gate driver with coupler integrated in a package 2014 ,		5
145	Dry etching and low-temperature direct bonding process of lithium niobate wafer for fabricating micro/nano channel device 2017 ,		5
144	Formation of gold nanoparticle dimers on silicon by sacrificial DNA origami technique. <i>Micro and Nano Letters</i> , 2017 , 12, 854-859	0.9	5
143	Improvement of tensile strength of freestanding single crystal silicon microstructures using localized harsh laser treatment. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 06JM03	1.4	5
142	Effect of Surface Morphology and Crystal Orientations on Tensile Fracture Property of (110) Single Crystal Silicon. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2013 , 79, 1191-1200		5
141	Gas phenomenon in the superior space of the temporomandibular joint: report of a case. <i>Journal of Oral and Maxillofacial Surgery</i> , 2004 , 62, 107-11	1.8	5

140	A heuristic approach for actuator layout designs in deformable mirror devices based on current value optimization. <i>Structural and Multidisciplinary Optimization</i> , 2018 , 58, 1243-1254	3.6	5
139	Fracture behavior of single crystal silicon with thermal oxide layer. <i>Engineering Fracture Mechanics</i> , 2016 , 163, 523-532	4.2	4
138	Ultrasensitive surface-enhanced Raman spectroscopy using directionally arrayed gold nanoparticle dimers 2015 ,		4
137	Large-displacement electrostatic deformable mirror using movable bottom electrodes 2014 ,		4
136	Objective Function and Adjoint Sensitivities for Moving-Mask Lithography 2008 ,		4
135	Recognition of the epicardial breakthrough on body surface isopotential maps: influence of the inter-electrode distance on the patterns reflecting the epicardial breakthrough. <i>Japanese Circulation Journal</i> , 1981 , 45, 1172-8		4
134	Development of Microfabricated Capillary Array Electrophoresis Chip and Direct Observation of Dynamics of DNA Molecules Migrating in Microchannels. <i>IEEJ Transactions on Sensors and Micromachines</i> , 1999 , 119, 460-463	0.2	4
133	Mixing Speed- and Temperature-Controlled Microreactor for Gold Nanoparticle Synthesis. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2010 , 130, 292-299	0.2	4
132	Constructing higher order DNA origami arrays using DNA junctions of anti-parallel/parallel double crossovers. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 06GL04	1.4	4
131	Time-Resolved Micro-Raman Stress Spectroscopy for Single-Crystal Silicon Resonators Using a MEMS Optical Chopper. <i>Journal of Microelectromechanical Systems</i> , 2016 , 25, 188-196	2.5	3
130	Experimental verification of frequency decoupling effect on acceleration sensitivity in tuning fork gyroscopes using in-plane coupled resonators. <i>Microsystem Technologies</i> , 2014 , 20, 403-411	1.7	3
129	Manipulation of DNA origami nanotubes in liquid using programmable tapping-mode atomic force microscopy. <i>Micro and Nano Letters</i> , 2013 , 8, 641-645	0.9	3
128	Tensile test of a silicon microstructure fully coated with submicrometer-thick diamond like carbon film using plasma enhanced chemical vapor deposition method. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 06GN01	1.4	3
127	Effect of crystallographic orientation on tensile fractures of (100) and (110) silicon microstructures fabricated from silicon-on-insulator wafers. <i>Micro and Nano Letters</i> , 2015 , 10, 678-682	0.9	3
126	2014 ,		3
125	A Drive-by-Microwave isolated gate driver with gate current charge for IGBTs 2014 ,		3
124	Investigation of Molecular Diffusivity of Photoresist Membrane using Coarse-Grained Molecular Dynamics Simulation. <i>Procedia Engineering</i> , 2012 , 47, 402-405		3
123	Analysis of acceleration sensitivity in frequency decoupled MEMS tuning fork gyroscope. <i>Procedia Engineering</i> , 2011 , 25, 51-54		3

122	Extraction Equilibrium of Ethanol for Bioethanol Production [Solvent Selection and Liquid-liquid Equilibrium Measurement] <i>Journal of the Japan Petroleum Institute</i> , 2010 , 53, 135-143	1	3
121	Process Simulation System for 3D X-Ray Lithography and Development. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2003 , 123, 368-375	0.2	3
120	Moving Mask Direct Photo-Etching (M2DPE) for 3D Micromachining of Polytetrafluoroethylene. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2006 , 126, 499-503	0.2	3
119	Out-of-plane Bending Vibration Fracture Test of Polycrystalline Silicon Thin-film Membrane. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2012 , 132, 224-229	0.2	3
118	Component Modeling of 2DOF Comb Transducer for Equivalent Circuit Using Built-in Displacement Detection. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2010 , 130, 443-449	0.2	3
117	Rhombic-Shaped Nanostructures and Mechanical Properties of 2D DNA Origami Constructed with Different Crossover/Nick Designs. <i>Small</i> , 2018 , 14, 1702028	11	3
116	Novel microfluidic device integrated with a fluidic-capacitor to mimic heart beating for generation of functional liver organoids. <i>Electronics and Communications in Japan</i> , 2019 , 102, 41-49	0.4	2
115	2015 ,		2
114	Analytical investigation of the feasibility of sacrificial microchannel sealing for Chip-Scale Atomic Magnetometers. <i>Microsystem Technologies</i> , 2014 , 20, 357-365	1.7	2
113	Elasticity measurement of DNA origami nanotube in liquid with tapping mode AFM 2014 ,		2
112	Direct characterization of radial modulus of DNA nanotube by AFM nanoindentation 2015 ,		2
111	Rotational motion effect on sensitivity matrix of MEMS three-axis accelerometer for realization of concurrent calibration using vibration table 2013 ,		2
110	Microfabrication of Embedding a Flexible Parylene-Based Microelectrode Array within Body-on-a-Chip. <i>Proceedings (mdpi)</i> , 2017 , 1, 302	0.3	2
109	Sacrificial microchannel sealing by glass-frit reflow for chip scale atomic magnetometer. <i>Electronics and Communications in Japan</i> , 2013 , 96, 58-66	0.4	2
108	mESC and hiPSC Proliferation on Negative Photoresists for Microfluidics. <i>Procedia Engineering</i> , 2011 , 25, 1233-1236		2
107	Development of piezoelectric MEMS deformable mirror. <i>Microsystem Technologies</i> , 2011 , 17, 931-935	1.7	2
106	Configurable assembly of DNA origami on MEMS by microfluidic device 2011 ,		2
105	Epoxy-based permeable membrane fabrication for 3D microfluidic device 2011 ,		2

104	Automated optimization of light dose distribution for moving-mask lithography 2009 ,		2
103	Fatigue Testing of Polycrystalline Silicon Thin-Film Membrane Using Out-of-Plane Bending Vibration. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 11PA02	1.4	2
102	Extreme-low-power thermal convective accelerometer based on CNT sensing element 2009 ,		2
101	The effect of polymer matrix on laser microfabrication of Au nanoparticles dispersed polymer resists. <i>Applied Surface Science</i> , 2008 , 255, 2237-2243	6.7	2
100	Evaluation of Mechanical Properties of MEMS Materials and Their Standardization. <i>Advanced Micro & Nanosystems</i> , 2007 , 1-25		2
99	Deep X-ray exposure system with multistage for 3D microfabrication. <i>Journal of Micromechatronics</i> , 2002 , 2, 1-11		2
98	Clinical observation of osteoarthritis of the temporomandibular joint. Relation to internal derangement.. <i>Nihon Koku Geka Gakkai Zasshi</i> , 1991 , 37, 118-126	0.1	2
97	Design Approaches and Computational Tools for DNA Nanostructures. <i>IEEE Open Journal of Nanotechnology</i> , 2021 , 1-1	2.1	2
96	Laser-driven optothermal microactuator operated in water. <i>Applied Optics</i> , 2020 , 59, 1627-1632	1.7	2
95	Surface-enhanced Raman spectroscopy with gold nanoparticle dimers created by sacrificial DNA origami technique. <i>Micro and Nano Letters</i> , 2020 , 15, 384-389	0.9	2
94	X-Ray Masks for LIGA Microfabrication. <i>Advanced Micro & Nanosystems</i> , 2008 , 11-50		2
93	Characterization of alkali-metal vapor cells fabricated with an alkali-metal source tablet. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016 , 34, 061601	2.9	2
92	MEMS deformable mirror actuated by electrostatic piston array 2016 ,		2
91	Introduction: LIGA and Its Applications. <i>Advanced Micro & Nanosystems</i> , 2008 , 1-10		2
90	Modeling the Properties of Carbon Nanotubes for Sensor-Based Devices. <i>Advanced Micro & Nanosystems</i> , 2008 , 181-227		2
89	Carbon Nanotube Gas Sensors. <i>Advanced Micro & Nanosystems</i> , 2008 , 311-349		2
88	A Planar Single-Actuator Bi-Stable Switch Based on Latch-Lock Mechanism 2019 ,		1
87	Ferroelectric Extended Nanofluidic Channels for Room-Temperature Microfuel Cells. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900252	6.8	1

86	FET properties of single-walled carbon nanotubes individually assembled utilizing single strand DNA 2015 ,		1
85	Measurement and potential barrier evolution analysis of cold field emission in fracture fabricated Si nanogap. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 06GF06	1.4	1
84	Design, characterization and control of SMA springs-based multi-modal tactile display device for biomedical applications. <i>Mechatronics</i> , 2015 , 31, 255-263	3	1
83	First-principles simulation on orientation dependence of piezoresistivity in graphene nanoribbon 2014 ,		1
82	Evaluation of strain gauge factors of graphene ribbon models based on first-principles electronic-state calculations 2012 ,		1
81	DNA-grafted-polymer mediated self-assembly of micro components 2010 ,		1
80	Equivalent circuit analysis of micromechanical resonator using comb transducer model with built-in displacement detection 2011 ,		1
79	Micro/Nano Assembly as a Key to SENS (Synthetic Engineering for Nano Systems). <i>ECS Transactions</i> , 2009 , 16, 49-64	1	1
78	Coarse-Grained Molecular Dynamics Simulation of Epoxy-Based Chemically-Amplified Resist for MEMS Application. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1415, 139		1
77	MONOLITHIC PYROELECTRIC INFRARED IMAGE SENSOR USING PVDF THIN FILM. <i>IEEJ Transactions on Sensors and Micromachines</i> , 1997 , 117, 607-611	0.2	1
76	Reliability of MEMS Variable Optical Attenuator. <i>Advanced Micro & Nanosystems</i> , 2007 , 239-266		1
75	Cellular automaton simulation of micropowder blasting with mask erosion. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2007 , 2, 348-356	1	1
74	Temperature Controlled Capillary Driven Sequential Stacking Self-Assembly using Two Different Adhesives 2007 ,		1
73	Uniaxial Tensile Test for MEMS Materials. <i>Advanced Micro & Nanosystems</i> , 2007 , 123-161		1
72	Etching rate control of mask material for XeF ₂ etching using UV exposure 2001 , 4557, 18		1
71	A Surface Micromachined Resonant Accelerometer Based on Rigidity Change. <i>IEEJ Transactions on Sensors and Micromachines</i> , 1998 , 118, 413-419	0.2	1
70	Damageless Magnetron Sputtering Deposition of SnO ₂ :Sb Thin Films with Compensation Methods. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 403, 423		1
69	Deceleration of ion beams for film deposition by an electrostatic field. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1989 , 37-38, 906-909	1.2	1

68	Mechanical and Electrical Clamping of DEP Assembled SWCNT Using Electroless Gold Deposition. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2012 , 132, 108-113	0.2	1
67	Study on Vibration-coupling Control of Out-of-plane Coupled Resonator for Anti-shock Tuning Fork Gyroscopes. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2014 , 134, 392-399	0.2	1
66	Design Strategy of Electrode Patterns Based on Finite Element Analysis in Microfluidic Device for Trans-Epithelial Electrical Resistance (TEER) Measurement. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2020 , 140, 285-292	0.2	1
65	High-Yield Bridged Assembly of ssDNA-Modified SWCNT Using Dielectrophoresis. <i>International Journal of Automation Technology</i> , 2018 , 12, 29-36	0.8	1
64	ECF Chip Fabricated by Moving Mask Deep X-ray Lithography Technology 2000 , 143-146		1
63	Algorithm to Derive Optimal Mask and Movement Patterns in Moving Mask Deep X-ray Lithography (M2DXL). <i>IEEJ Transactions on Sensors and Micromachines</i> , 2005 , 125, 222-228	0.2	1
62	Electromechanical Carbon Nanotube Transducers. <i>Advanced Micro & Nanosystems</i> , 2008 , 43-81		1
61	Integrated gut/liver-on-a-chip platform as an in vitro human model of non-alcoholic fatty liver disease		1
60	Material Properties 2006 , 53-92		1
59	Novel Microfabricated Capillary Array Electrophoresis Chip Fabricated by Synchrotron Radiation and Direct Observation of Dynamics of DNA Molecules Migrating in Microchannels 1998 , 331-334		1
58	Exposure and Development Simulation for Deep X-Ray LIGA. <i>Advanced Micro & Nanosystems</i> , 2008 , 103-142		1
57	The Micro Harmonic Drive Gear. <i>Advanced Micro & Nanosystems</i> , 2008 , 351-394		1
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