

Osamu Tabata

List of Publications by Year in Descending Order

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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	Design Approaches and Computational Tools for DNA Nanostructures. <i>IEEE Open Journal of Nanotechnology</i> , 2021 , 1-1	2.1	2
228	A Design Method of Organ-on-a-Chip with Highly Accurate Measurement of Trans-Epithelial Electrical Resistance. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2021 , 141, 237-244	0.2	
227	Design strategy of electrode patterns based on finite element analysis in microfluidic device for Trans-Epithelial Electrical Resistance (TEER) measurement. <i>Electronics and Communications in Japan</i> , 2021 , 104, e12296	0.4	1
226	Microfabricated alkali metal vapor cells filled with an on-chip dispensing component. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, SCCL01	1.4	0
225	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
224	Laser-driven optothermal microactuator operated in water. <i>Applied Optics</i> , 2020 , 59, 1627-1632	1.7	2
223	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
222	A Planar Single-Actuator Bi-Stable Switch Based on Latch-Lock Mechanism 2019 ,		1
221	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
220	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
219	Ferroelectric Extended Nanofluidic Channels for Room-Temperature Microfuel Cells. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900252	6.8	1
218	Specific Binding of DNA Origami on a Nanoscale Pattern Formed by AFM Lithography. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2019 , 139, 95-102	0.2	
217	Novel Microfluidic Device Integrated with a Fluidic-Capacitor to Mimic Heart Beating for Generation of Functional Liver Organoids. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2019 , 139, 209-216	0.2	
216	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
215	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
214	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
213	Mathematical Modeling and Analysis of MEMS Deformable Mirror Actuated by Electrostatic Piston Array. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 2018 , 204, 50-60	0.4	

212	Tensile Strength of Silicon Nanowires Batch-Fabricated into Electrostatic MEMS Testing Device. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 880	2.6	12
211	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
210	High-Yield Bridged Assembly of ssDNA-Modified SWCNT Using Dielectrophoresis. <i>International Journal of Automation Technology</i> , 2018 , 12, 29-36	0.8	1
209	Mathematical Modeling and Analysis of MEMS Deformable Mirror Actuated by Electrostatic Piston Array. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2018 , 138, 66-73	0.2	0
208	Simultaneous optimization of electric current and layout of actuators for shape control. <i>The Proceedings of OPTIS</i> , 2018 , 2018.13, 307	0	
207	Revealing the Influential Factor on Dimerizing of Triangular DNA Origami by Linker. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2018 , 138, 171-177	0.2	
206	Rhombic-Shaped Nanostructures and Mechanical Properties of 2D DNA Origami Constructed with Different Crossover/Nick Designs. <i>Small</i> , 2018 , 14, 1702028	11	3
205	Microchannel Fabrication Using A Photo-Patternable Adhesive Material for Recording Conformational Changes of KcsA Channel with the Diffracted X-ray Tracking Method. <i>Proceedings (mdpi)</i> , 2018 , 2, 972	0.3	0
204	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
203	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
202	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
201	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
200	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
199	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
198	Dry etching and low-temperature direct bonding process of lithium niobate wafer for fabricating micro/nano channel device 2017 ,		5
197	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
196	Microfabrication of Embedding a Flexible Parylene-Based Microelectrode Array within Body-on-a-Chip. <i>Proceedings (mdpi)</i> , 2017 , 1, 302	0.3	2
195	A high-efficient driving isolated Drive-by-Microwave half-bridge gate driver for a GaN inverter 2016 ,		6

194	Fracture behavior of single crystal silicon with thermal oxide layer. <i>Engineering Fracture Mechanics</i> , 2016 , 163, 523-532	4.2	4
193	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
192	Development of a Body-on-a-Chip Using 3-D Microstructuring Technique. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2016 , 136, 229-236	0.2	
191	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
190	Investigation of the self-assembly process for discrete and polymerized bivalve DNA origami structures. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2016 , 11, S164	1	1
189	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
188	Photoresist Micro-Chamber for the Diffracted X-ray Tracking Method Recording Single-Molecule Conformational Changes. <i>Procedia Engineering</i> , 2016 , 168, 1394-1397		1
187	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
186	MEMS deformable mirror actuated by electrostatic piston array 2016 ,		2
185	Effect of Crystallographic Orientations on Fractures and Slip Occurrences at 500 °C of (110) Single Crystal Silicon Microstructures. <i>Procedia Structural Integrity</i> , 2016 , 2, 1413-1420	1	1
184	A compact GaN Bi-directional switching diode with a GaN Bi-directional power switch and an Isolated gate driver 2016 ,		6
183	Tensile fracture of integrated single-crystal silicon nanowire using MEMS electrostatic testing device. <i>Procedia Structural Integrity</i> , 2016 , 2, 1405-1412	1	6
182	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
181	FET properties of single-walled carbon nanotubes individually assembled utilizing single strand DNA 2015 ,		1
180	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
179	2015 ,		2
178	Direct characterization of radial modulus of DNA nanotube by AFM nanoindentation 2015 ,		2
177	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

176	Ultrasensitive surface-enhanced Raman spectroscopy using directionally arrayed gold nanoparticle dimers 2015,		4
175	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
174	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
173	. <i>Journal of Microelectromechanical Systems</i> , 2015 , 24, 1856-1867	2.5	11
172	Fabrication and Characterization of Chain-like Arrangement of Gold Nanoparticles using Nanotemplates. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2015 , 135, 474-475	0.2	
171	Analysis of Aggregation Reaction of Silver Nanoparticles in Microchannel for Highly Sensitive Surface-Enhanced Raman Spectroscopy. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2015 , 135, 433-438	0.2	3
170	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
169	A compact Drive-by-Microwave gate driver with coupler integrated in a package 2014,		5
168	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
167	A Drive-by-Microwave isolated gate driver with a high-speed voltage monitoring 2014,		6
166	Elasticity measurement of DNA origami nanotube in liquid with tapping mode AFM 2014,		2
165	2014,		3
164	First-principles simulation on orientation dependence of piezoresistivity in graphene nanoribbon 2014,		1
163	Large-displacement electrostatic deformable mirror using movable bottom electrodes 2014,		4
162	Photoresist-based Microfluidic Cell Sorter for Photodynamic Urine Diagnosis. <i>Procedia Engineering</i> , 2014 , 87, 62-65		
161	A Drive-by-Microwave isolated gate driver with gate current charge for IGBTs 2014,		3
160	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
159	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

158	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
157	DNA-DNA origami 2014 , 1-16		
156	J2240106 MEMS tensile testing of silicon nanowire batch-fabricated using multi-step ICP-RIE. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2014 , 2014, _J2240106--_J2240106-	0	
155	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
154	Rotational motion effect on sensitivity matrix of MEMS three-axis accelerometer for realization of concurrent calibration using vibration table 2013 ,		2
153	Stem Cells: Phenotypic and Transcriptional Modulation of Human Pluripotent Stem Cells Induced by Nano/Microfabrication Materials (Adv. Healthcare Mater. 2/2013). <i>Advanced Healthcare Materials</i> , 2013 , 2, 234-234	10.1	
152	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
151	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
150	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
149	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
148	Body on a Chip: Re-Creation of a Living System In Vitro. <i>IEEE Nanotechnology Magazine</i> , 2013 , 7, 6-14	1.7	6
147	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
146	OS1211 Effect of Temperature and Humidity on Fatigue Fracture of Polysilicon Thin Films using Out-of-plane Resonant Vibration. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2013 , 2013, _OS1211-1_- _OS1211-2_	0	
145	IEEE-NEMS 2012, Kyoto, Japan [Conference Review]. <i>IEEE Nanotechnology Magazine</i> , 2012 , 6, 30-31	1.7	
144	Investigation of Molecular Diffusivity of Photoresist Membrane using Coarse-Grained Molecular Dynamics Simulation. <i>Procedia Engineering</i> , 2012 , 47, 402-405		3
143	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
142	Evaluation of strain gauge factors of graphene ribbon models based on first-principles electronic-state calculations 2012 ,		1
141	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

140	Micromachined Tactile Sensor for Soft-Tissue Compliance Detection. <i>Journal of Microelectromechanical Systems</i> , 2012 , 21, 635-645	2.5	23
139	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
138	. <i>Journal of Microelectromechanical Systems</i> , 2012 , 21, 586-595	2.5	30
137	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
136	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
135	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
134	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
133	Analysis of acceleration sensitivity in frequency decoupled MEMS tuning fork gyroscope. <i>Procedia Engineering</i> , 2011 , 25, 51-54		3
132	mESC and hiPSC Proliferation on Negative Photoresists for Microfluidics. <i>Procedia Engineering</i> , 2011 , 25, 1233-1236		2
131	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
130	Development of piezoelectric MEMS deformable mirror. <i>Microsystem Technologies</i> , 2011 , 17, 931-935	1.7	2
129	Configurable assembly of DNA origami on MEMS by microfluidic device 2011 ,		2
128	Equivalent circuit analysis of micromechanical resonator using comb transducer model with built-in displacement detection 2011 ,		1
127	Epoxy-based permeable membrane fabrication for 3D microfluidic device 2011 ,		2
126	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
125	Sacrificial Microchannel Sealing by Glass-Frit Reflow for Chip Scale Atomic Magnetometer. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2011 , 131, 251-257	0.2	
124	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
123	DNA-grafted-polymer mediated self-assembly of micro components 2010 ,		1

122	A three-dimensional microstructuring technique exploiting the positive photoresist property. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 065005	2	16
121	. <i>Journal of Microelectromechanical Systems</i> , 2010 , 19, 1058-1069	2.5	18
120	Mixing speed-controlled gold nanoparticle synthesis with pulsed mixing microfluidic system. <i>Microfluidics and Nanofluidics</i> , 2010 , 9, 1165-1174	2.8	34
119	Tensile and Tensile-Mode Fatigue Testing of Microscale Specimens in Constant Humidity Environment. <i>Experimental Mechanics</i> , 2010 , 50, 509-516	2.6	22
118	A Closer Look at DNA Nanotechnology. <i>IEEE Nanotechnology Magazine</i> , 2010 , 4, 13-17	1.7	6
117	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
116	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
115	Automated optimization of light dose distribution for moving-mask lithography 2009 ,		2
114	Micro/Nano Assembly as a Key to SENS (Synthetic Engineering for Nano Systems). <i>ECS Transactions</i> , 2009 , 16, 49-64	1	1
113	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
112	Extreme-low-power thermal convective accelerometer based on CNT sensing element 2009 ,		2
111	Refractive X-Ray Lenses Produced by X-Ray Lithography. <i>Advanced Micro & Nanosystems</i> , 2008 , 233-242		
110	Objective Function and Adjoint Sensitivities for Moving-Mask Lithography 2008 ,		4
109	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
108	DNA Mediated Sequential Self-assembly of Au Nano-particles. <i>Journal of the Society of Powder Technology, Japan</i> , 2008 , 45, 156-161	0.3	
107	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
106	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
105	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

104	Design of A Soft X-ray Source with Periodic Microstructure Using Resonance Transition Radiation for Tabletop Synchrotron. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2008 , 3, 268-273	1
103	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
102	Electromechanical Carbon Nanotube Transducers. <i>Advanced Micro & Nanosystems</i> , 2008 , 43-81	1
101	Carbon Nanotube Direct Integration into Microsystems. <i>Advanced Micro & Nanosystems</i> , 2008 , 83-124	
100	Multiscale Modeling and Simulation for Fluid Mechanics at the Nanoscale. <i>Advanced Micro & Nanosystems</i> , 2008 , 229-290	
99	Characterization of Carbon Nanotubes by Optical Spectroscopy. <i>Advanced Micro & Nanosystems</i> , 2008 , 125-180	0
98	RF Applications. <i>Advanced Micro & Nanosystems</i> , 2008 , 243-280	
97	Filled Resist Systems. <i>Advanced Micro & Nanosystems</i> , 2008 , 415-441	
96	Design for LIGA and Safe Manufacturing. <i>Advanced Micro & Nanosystems</i> , 2008 , 143-188	
95	Innovative Exposure Techniques for 3D Microfabrication. <i>Advanced Micro & Nanosystems</i> , 2008 , 51-68	
94	Exposure and Development Simulation for Deep X-Ray LIGA. <i>Advanced Micro & Nanosystems</i> , 2008 , 103-142	1
93	The Micro Harmonic Drive Gear. <i>Advanced Micro & Nanosystems</i> , 2008 , 351-394	1
92	Evolution of the Microspectrometer. <i>Advanced Micro & Nanosystems</i> , 2008 , 281-296	1
91	Commercialization of LIGA. <i>Advanced Micro & Nanosystems</i> , 2008 , 189-203	
90	Application of Inspection Devices. <i>Advanced Micro & Nanosystems</i> , 2008 , 337-349	
89	PTFE Photo-Fabrication by Synchrotron Radiation. <i>Advanced Micro & Nanosystems</i> , 2008 , 453-468	
88	Microinjection Molding Machines. <i>Advanced Micro & Nanosystems</i> , 2008 , 395-414	
87	Polymer Optics and Optical MEMS. <i>Advanced Micro & Nanosystems</i> , 2008 , 205-232	

86	X-Ray Masks for LIGA Microfabrication. <i>Advanced Micro & Nanosystems</i> , 2008 , 11-50		2
85	Development of Microfluidic Devices Created via the LIGA Process. <i>Advanced Micro & Nanosystems</i> , 2008 , 323-335		
84	Hot Embossing of LIGA Microstructures. <i>Advanced Micro & Nanosystems</i> , 2008 , 69-102		
83	Dramatic Downsizing of Soft X-Ray Synchrotron Light Source from Compact to Tabletop. <i>Advanced Micro & Nanosystems</i> , 2008 , 443-452		
82	Actuator Manufacture with LIGA Processes. <i>Advanced Micro & Nanosystems</i> , 2008 , 297-321		
81	Introduction: LIGA and Its Applications. <i>Advanced Micro & Nanosystems</i> , 2008 , 1-10		2
80	Carbon Nanotubes in Microelectronic Applications. <i>Advanced Micro & Nanosystems</i> , 2008 , 1-41		10
79	Modeling the Properties of Carbon Nanotubes for Sensor-Based Devices. <i>Advanced Micro & Nanosystems</i> , 2008 , 181-227		2
78	Carbon Nanotube Field Emission Devices. <i>Advanced Micro & Nanosystems</i> , 2008 , 291-309		1
77	Carbon Nanotube Gas Sensors. <i>Advanced Micro & Nanosystems</i> , 2008 , 311-349		2
76	Moving mask UV lithography for three-dimensional structuring. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 199-206	2	98
75	Reliability of a Capacitive Pressure Sensor. <i>Advanced Micro & Nanosystems</i> , 2007 , 185-203		
74	Reliability of MEMS Variable Optical Attenuator. <i>Advanced Micro & Nanosystems</i> , 2007 , 239-266		1
73	Eco Scan MEMS Resonant Mirror. <i>Advanced Micro & Nanosystems</i> , 2007 , 267-290		
72	On-Chip Testing of MEMS. <i>Advanced Micro & Nanosystems</i> , 2007 , 163-183		
71	Cellular automaton simulation of micropowder blasting with mask erosion. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2007 , 2, 348-356	1	1
70	Temperature Controlled Capillary Driven Sequential Stacking Self-Assembly using Two Different Adhesives 2007 ,		1
69	. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 746-752	2.5	15

68	Effect of Surface Oxide Layer on Mechanical Properties of Single Crystalline Silicon. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1052, 1		0
67	Elastoplastic Indentation Contact Mechanics of Homogeneous Materials and Coating Substrate Systems. <i>Advanced Micro & Nanosystems</i> , 2007 , 27-65		0
66	Uniaxial Tensile Test for MEMS Materials. <i>Advanced Micro & Nanosystems</i> , 2007 , 123-161		1
65	Evaluation of Mechanical Properties of MEMS Materials and Their Standardization. <i>Advanced Micro & Nanosystems</i> , 2007 , 1-25		2
64	High-Accuracy, High-Reliability MEMS Accelerometer. <i>Advanced Micro & Nanosystems</i> , 2007 , 225-237		
63	Thin-Film Characterization Using the Bulge Test. <i>Advanced Micro & Nanosystems</i> , 2007 , 67-121		12
62	Inertial Sensors. <i>Advanced Micro & Nanosystems</i> , 2007 , 205-223		0
61	Sequential Stacking Self-Assembly using Interfacial Tension of Two Different Droplets. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2007 , 127, 214-220	0.2	
60	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
59	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
58	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
57	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
56	Material Properties: Measurement and Data 2006 , 53-92		
55	Material Properties 2006 , 53-92		1
54	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
53	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
52	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
51	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

50	Shape memory thin films formed with carousel-type magnetron sputtering apparatus. <i>Smart Materials and Structures</i> , 2005 , 14, S216-S222	3.4	12
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