Osamu Tabata

List of Publications by Year in descending order

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Οςλμιι Τλβλτλ

#	Article	IF	CITATIONS
1	Anisotropic etching of silicon in TMAH solutions. Sensors and Actuators A: Physical, 1992, 34, 51-57.	2.0	416
2	Mechanical property measurements of thin films using load-deflection of composite rectangular membranes. Sensors and Actuators, 1989, 20, 135-141.	1.8	360
3	Specimen size effect on tensile strength of surface-micromachined polycrystalline silicon thin films. Journal of Microelectromechanical Systems, 1998, 7, 106-113.	1.7	335
4	Ciliary motion actuator using self-oscillating gel. Sensors and Actuators A: Physical, 2002, 95, 234-238.	2.0	117
5	Moving mask UV lithography for three-dimensional structuring. Journal of Micromechanics and Microengineering, 2007, 17, 199-206.	1.5	113
6	Integrated heart/cancer on a chip to reproduce the side effects of anti-cancer drugs in vitro. RSC Advances, 2017, 7, 36777-36786.	1.7	98
7	Stafne's bone cavity. Oral Surgery, Oral Medicine, and Oral Pathology, 1993, 76, 375-380.	0.6	87
8	Replica multichannel polymer chips with a network of sacrificial channels sealed by adhesive printing method. Lab on A Chip, 2005, 5, 472.	3.1	81
9	Monolithic pyroelectric infrared image sensor using PVDF thin film. Sensors and Actuators A: Physical, 1998, 66, 237-243.	2.0	80
10	A novel fabrication process of 3D microstructures by double exposure in deep x-ray lithography (D2XRL). Journal of Micromechanics and Microengineering, 2005, 15, 2056-2062.	1.5	63
11	High-Performance Genetic Analysis on Microfabricated Capillary Array Electrophoresis Plastic Chips Fabricated by Injection Molding. Analytical Chemistry, 2005, 77, 2140-2146.	3.2	63
12	pH-controlled TMAH etchants for silicon micromachining. Sensors and Actuators A: Physical, 1996, 53, 335-339.	2.0	61
13	Fast-response silicon flow sensor with an on-chip fluid temperature sensing element. IEEE Transactions on Electron Devices, 1986, 33, 361-365.	1.6	54
14	Noise-induced chaos in the electrostatically actuated MEMS resonators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2903-2910.	0.9	51
15	Hybrid Dynamic Coating withn-Dodecylβ-d-Maltoside and Methyl Cellulose for High-Performance Carbohydrate Analysis on Poly(methyl methacrylate) Chips. Analytical Chemistry, 2006, 78, 1452-1458.	3.2	48
16	Mixing speed-controlled gold nanoparticle synthesis with pulsed mixing microfluidic system. Microfluidics and Nanofluidics, 2010, 9, 1165-1174.	1.0	47
17	Imaging and measuring the rituximab-induced changes of mechanical properties in B-lymphoma cells using atomic force microscopy. Biochemical and Biophysical Research Communications, 2011, 404, 689-694.	1.0	46
18	Improved Designs for an Electrothermal In-Plane Microactuator. Journal of Microelectromechanical Systems, 2012, 21, 586-595.	1.7	42

#	Article	IF	CITATIONS
19	Tensile Testing of Polycrystalline Silicon Thin Films Using Electrostatic Force Grip IEEJ Transactions on Sensors and Micromachines, 1996, 116, 441-446.	0.0	37
20	Reliability of ultrasonography and sialography in the diagnosis of sjögren's syndrome. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 1997, 83, 400-407.	1.6	36
21	Long-term outcomes of nonsurgical treatment in nonreducing anteriorly displaced disk of the temporomandibular joint. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 1998, 85, 258-267.	1.6	36
22	Clinical symptoms of open lock position of the condyle. Oral Surgery, Oral Medicine, and Oral Pathology, 1992, 74, 143-148.	0.6	35
23	Investigation of a New High Sensitive Micro-Electromechanical Strain Gauge Sensor Based on Graphene Piezoresistivity. Key Engineering Materials, 0, 605, 207-210.	0.4	34
24	Micro fabricated tunable bending stiffness devices. Sensors and Actuators A: Physical, 2001, 89, 119-123.	2.0	32
25	Investigating the sequence-dependent mechanical properties of DNA nicks for applications in twisted DNA nanostructure design. Nucleic Acids Research, 2019, 47, 93-102.	6.5	31
26	Monolithic pressure-flow sensor. IEEE Transactions on Electron Devices, 1987, 34, 2456-2462.	1.6	30
27	Micropowder blasting with nanoparticles dispersed polymer mask for rapid prototyping of glass chip. Journal of Micromechanics and Microengineering, 2005, 15, 1236-1241.	1.5	30
28	Electrostatic Tensile Testing Device With Nanonewton and Nanometer Resolution and Its Application to \$hbox{C}_{60}\$ Nanowire Testing. Journal of Microelectromechanical Systems, 2012, 21, 523-529.	1.7	29
29	Two-axis detection resonant accelerometer based on rigidity change. Sensors and Actuators A: Physical, 1999, 75, 53-59.	2.0	28
30	Reduction of surface roughness and aperture size effect for etching of Si with XeF2. Journal of Micromechanics and Microengineering, 2002, 12, 911-916.	1.5	28
31	Range of Motion of the Temporomandibular Joint in Rheumatoid Arthritis: Relationship to the Severity of Disease. Cranio - Journal of Craniomandibular Practice, 1998, 16, 162-167.	0.6	27
32	Tensile and Tensile-Mode Fatigue Testing of Microscale Specimens in Constant Humidity Environment. Experimental Mechanics, 2010, 50, 509-516.	1.1	27
33	Micromachined Tactile Sensor for Soft-Tissue Compliance Detection. Journal of Microelectromechanical Systems, 2012, 21, 635-645.	1.7	27
34	Control of internal stress and Young's modulus of Si3N4and polycrystalline silicon thin films using the ion implantation technique. Applied Physics Letters, 1990, 56, 1314-1316.	1.5	26
35	Highly conductive transparent F-doped tin oxide films were prepared by photo-CVD and thermal-CVD. Thin Solid Films, 1996, 281-282, 228-231.	0.8	25
36	Multiple ion sensor array. Sensors and Actuators B: Chemical, 1990, 1, 8-11.	4.0	23

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37	Imaging of a band for DNA fragment migrating in microchannel on integrated microchip. Materials Science and Engineering C, 2000, 12, 33-36.	3.8	23
38	Phenotypic and Transcriptional Modulation of Human Pluripotent Stem Cells Induced by Nano/Microfabrication Materials. Advanced Healthcare Materials, 2013, 2, 287-291.	3.9	23
39	Morphologic analysis of odontogenic cysts with computed tomography. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 1997, 83, 712-718.	1.6	22
40	Embedded Microstructure Fabrication Using Developer-Permeability of Semi-Cross-Linked Negative Resist. Journal of Microelectromechanical Systems, 2010, 19, 1058-1069.	1.7	22
41	Validation of X-Ray Lithography and Development Simulation System for Moving Mask Deep X-Ray Lithography. Journal of Microelectromechanical Systems, 2006, 15, 159-168.	1.7	21
42	Tensile Strength of Silicon Nanowires Batch-Fabricated into Electrostatic MEMS Testing Device. Applied Sciences (Switzerland), 2018, 8, 880.	1.3	21
43	Fabrication of Plastic Micro Tip Array using Laser Micromachining of Nanoparticles Dispersed Polymer and Micromolding. IEEJ Transactions on Sensors and Micromachines, 2006, 126, 7-13.	0.0	21
44	Versatile Method of Submicroparticle Pattern Formation Using Self-Assembly and Two-Step Transfer. Journal of Microelectromechanical Systems, 2007, 16, 746-752.	1.7	19
45	Effects of aperture size and pressure on XeF 2 etching of silicon. Microsystem Technologies, 2002, 9, 11-16.	1.2	18
46	A three-dimensional microstructuring technique exploiting the positive photoresist property. Journal of Micromechanics and Microengineering, 2010, 20, 065005.	1.5	18
47	Simulation of mechanical properties of epoxy-based chemically amplified resist by coarse-grained molecular dynamics. Polymer, 2012, 53, 4834-4842.	1.8	18
48	Graphene film development on flexible substrate using a new technique: temperature dependency of gauge factor for graphene-based strain sensors. Sensor Review, 2016, 36, 140-147.	1.0	18
49	Dependence of the hardness of titanium nitride prepared by plasma chemical vapour deposition on the gas flow rate and the r.f. power. Thin Solid Films, 1986, 137, L49-L50.	0.8	17
50	The Significance of Posterior Open Bite After Anterior Repositioning Splint Therapy for Anteriorly Displaced Disk of the Temporomandibular Joint. Cranio - Journal of Craniomandibular Practice, 1993, 11, 146-152.	0.6	17
51	Experimental Study of Numerical Optimization for 3-D Microstructuring Using DMD-Based Grayscale Lithography. Journal of Microelectromechanical Systems, 2015, 24, 1856-1867.	1.7	17
52	Electrolytes in erythrocytes of patients with depressive disorders. Psychiatry and Clinical Neurosciences, 1998, 52, 529-533.	1.0	16
53	Application of Nanoparticles Dispersed Polymer to Micropowder Blasting Mask. Journal of Microelectromechanical Systems, 2004, 13, 1-6.	1.7	16
54	Design and Simulation of a Tactile Sensor for Soft-Tissue Compliance Detection. IEEJ Transactions on Sensors and Micromachines, 2008, 128, 186-192.	0.0	16

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55	Shape memory thin films formed with carrousel-type magnetron sputtering apparatus. Smart Materials and Structures, 2005, 14, S216-S222.	1.8	15
56	Mechanical calibration of MEMS springs with sub-micro-Newton force resolution. Sensors and Actuators A: Physical, 2008, 143, 136-142.	2.0	15
57	Design and fabrication of a differential capacitive three-axis SOI accelerometer using vertical comb electrodes. IEEJ Transactions on Electrical and Electronic Engineering, 2009, 4, 345-351.	0.8	15
58	Digital compensated capacitive pressure sensor using CMOS technology for low-pressure measurements. Sensors and Actuators A: Physical, 1992, 34, 173-177.	2.0	14
59	3-Dimensional Microstructure Fabrication using Multiple Moving Mask Deep X-ray Lithography Process. IEEJ Transactions on Sensors and Micromachines, 2000, 120, 321-326.	0.0	14
60	ALA-induced fluorescence detection with photoresist-based microfluidic cell sorter for bladder cancer diagnosis. Sensors and Actuators B: Chemical, 2015, 213, 547-557.	4.0	13
61	Direct measurement of transversely isotropic DNA nanotube by force–distance curveâ€based atomic force microscopy. Micro and Nano Letters, 2015, 10, 513-517.	0.6	13
62	Moving mask deep X-ray lithography system with multi stage for 3-D microfabrication. Microsystem Technologies, 2002, 8, 93-98.	1.2	11
63	Fatigue characteristics of polycrystalline silicon thin-film membrane and its dependence on humidity. Journal of Micromechanics and Microengineering, 2013, 23, 035032.	1.5	11
64	Coarse-Grained Molecular Dynamics Model of Double-Stranded DNA for DNA Nanostructure Design. Journal of Physical Chemistry B, 2017, 121, 5033-5039.	1.2	11
65	Effect of substrate bias voltage on tensile properties of single crystal silicon microstructure fully coated with plasma CVD diamond-like carbon film. Applied Surface Science, 2018, 443, 48-54.	3.1	11
66	Geometrical compensation for mode-matching of a (100) silicon ring resonator for a vibratory gyroscope. Japanese Journal of Applied Physics, 2019, 58, SDDL06.	0.8	11
67	Fracture strength of silicon torsional mirror resonators fully coated with submicrometer-thick PECVD DLC film. Sensors and Actuators A: Physical, 2019, 286, 28-34.	2.0	11
68	Frequency response of in-plane coupled resonators for investigating the acceleration sensitivity of MEMS tuning fork gyroscopes. Microsystem Technologies, 2012, 18, 797-803.	1.2	10
69	Tensile fracture of integrated single-crystal silicon nanowire using MEMS electrostatic testing device. Procedia Structural Integrity, 2016, 2, 1405-1412.	0.3	10
70	Three-dimensional simulation of powder blasting with a polymer mask using a cellular automaton. Journal of Micromechanics and Microengineering, 2008, 18, 055010.	1,5	9
71	On-chip fabrication of alkali-metal vapor cells utilizing an alkali-metal source tablet. Journal of Micromechanics and Microengineering, 2013, 23, 115003.	1.5	9
72	High-temperature tensile testing machine for investigation of brittle–ductile transition behavior of single crystal silicon microstructure. Japanese Journal of Applied Physics, 2015, 54, 06FP04.	0.8	9

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73	Nanopore Fabrication of Two-Dimensional Materials on SiO2 Membranes Using He Ion Microscopy. IEEE Nanotechnology Magazine, 2018, 17, 727-730.	1.1	9
74	A Closer Look at DNA Nanotechnology. IEEE Nanotechnology Magazine, 2010, 4, 13-17.	0.9	8
75	A high-efficient driving isolated Drive-by-Microwave half-bridge gate driver for a GaN inverter. , 2016, ,		8
76	A heuristic approach for actuator layout designs in deformable mirror devices based on current value optimization. Structural and Multidisciplinary Optimization, 2018, 58, 1243-1254.	1.7	8
77	Body on a Chip: Re-Creation of a Living System In Vitro. IEEE Nanotechnology Magazine, 2013, 7, 6-14.	0.9	7
78	Characterization of alkali-metal vapor cells fabricated with an alkali-metal source tablet. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, 061601.	0.9	7
79	Tuning porosity and radial mechanical properties of DNA origami nanotubes via crossover design. Japanese Journal of Applied Physics, 2017, 56, 06GJ02.	0.8	7
80	Formation of gold nanoparticle dimers on silicon by sacrificial DNA origami technique. Micro and Nano Letters, 2017, 12, 854-859.	0.6	7
81	Infrared linear image sensor using a poly-Si pn junction diode array. Infrared Physics, 1992, 33, 229-236.	0.5	6
82	Design Construction of Beam Structured Vertical Drive SMA Thin Film Actuator for Small Tactile Display. IEEJ Transactions on Sensors and Micromachines, 2008, 128, 151-160.	0.0	6
83	Effect of Surface Morphology and Crystal Orientations on Tensile Fracture Property of (110) Single Crystal Silicon. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2013, 79, 1191-1200.	0.2	6
84	Improvement of tensile strength of freestanding single crystal silicon microstructures using localized harsh laser treatment. Japanese Journal of Applied Physics, 2014, 53, 06JM03.	0.8	6
85	A compact Drive-by-Microwave gate driver with coupler integrated in a package. , 2014, , .		6
86	A Drive-by-Microwave isolated gate driver with a high-speed voltage monitoring. , 2014, , .		6
87	Ultrasensitive surface-enhanced Raman spectroscopy using directionally arrayed gold nanoparticle dimers. , 2015, , .		6
88	A compact GaN Bi-directional switching diode with a GaN Bi-directional power switch and an Isolated gate driver. , 2016, , .		6
89	Fracture behavior of single crystal silicon with thermal oxide layer. Engineering Fracture Mechanics, 2016, 163, 523-532.	2.0	6
90	Dry etching and low-temperature direct bonding process of lithium niobate wafer for fabricating micro/nano channel device. , 2017, , .		6

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91	Design strategy of electrode patterns based on finite element analysis in microfluidic device for Transâ€Epithelial Electrical Resistance (TEER) measurement. Electronics and Communications in Japan, 2021, 104, e12296.	0.3	6
92	Design Approaches and Computational Tools for DNA Nanostructures. IEEE Open Journal of Nanotechnology, 2021, 2, 86-100.	0.9	6
93	Recognition of the epicardial breakthrough on body surface isopotential maps: Influence of the inter-electrode distance on the patterns reflecting the epicardial breakthrough Japanese Circulation Journal, 1981, 45, 1172-1178.	1.0	5
94	Gas phenomenon in the superior space of the temporomandibular joint: report of a case. Journal of Oral and Maxillofacial Surgery, 2004, 62, 107-111.	0.5	5
95	Analysis of acceleration sensitivity in frequency decoupled MEMS tuning fork gyroscope. Procedia Engineering, 2011, 25, 51-54.	1.2	5
96	Development of piezoelectric MEMS deformable mirror. Microsystem Technologies, 2011, 17, 931-935.	1.2	5
97	Sacriï¬cial microchannel sealing by glassâ€frit reï¬,ow for chip scale atomic magnetometer. Electronics and Communications in Japan, 2013, 96, 58-66.	0.3	5
98	Design, characterization and control of SMA springs-based multi-modal tactile display device for biomedical applications. Mechatronics, 2015, 31, 255-263.	2.0	5
99	Effect of crystallographic orientation on tensile fractures of (100) and (110) silicon microstructures fabricated from siliconâ€onâ€insulator wafers. Micro and Nano Letters, 2015, 10, 678-682.	0.6	5
100	A Planar Single-Actuator Bi-Stable Switch Based on Latch-Lock Mechanism. , 2019, , .		5
101	Novel microfluidic device integrated with a fluidicâ€capacitor to mimic heart beating for generation of functional liver organoids. Electronics and Communications in Japan, 2019, 102, 41-49.	0.3	5
102	Development of Microfabricated Capillary Array Electrophoresis Chip and Direct Observation of Dynamics of DNA Molecules Migrating in Microchannels. IEEJ Transactions on Sensors and Micromachines, 1999, 119, 460-463.	0.0	5
103	Mixing Speed- and Temperature-Controlled Microreactor for Gold Nanoparticle Synthesis. IEEJ Transactions on Sensors and Micromachines, 2010, 130, 292-299.	0.0	5
104	Component Modeling of 2DOF Comb Transducer for Equivalent Circuit Using Built-in Displacement Detection. IEEJ Transactions on Sensors and Micromachines, 2010, 130, 443-449.	0.0	5
105	Tensile-mode fatigue tests and fatigue life predictions of single crystal silicon in humidity controlled environments. , 2007, , .		4
106	Objective Function and Adjoint Sensitivities for Moving-Mask Lithography. , 2008, , .		4
107	Manipulation of DNA origami nanotubes in liquid using programmable tappingâ€mode atomic force microscopy. Micro and Nano Letters, 2013, 8, 641-645.	0.6	4
108	Large-displacement electrostatic deformable mirror using movable bottom electrodes. , 2014, , .		4

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109	A Drive-by-Microwave isolated gate driver with gate current charge for IGBTs. , 2014, , .		4
110	Elasticity measurement of DNA origami nanotube in liquid with tapping mode AFM. , 2014, , .		4
111	Constructing higher order DNA origami arrays using DNA junctions of anti-parallel/parallel double crossovers. Japanese Journal of Applied Physics, 2016, 55, 06GL04.	0.8	4
112	Time-Resolved Micro-Raman Stress Spectroscopy for Single-Crystal Silicon Resonators Using a MEMS Optical Chopper. Journal of Microelectromechanical Systems, 2016, 25, 188-196.	1.7	4
113	Measurement and potential barrier evolution analysis of cold field emission in fracture fabricated Si nanogap. Japanese Journal of Applied Physics, 2017, 56, 06GF06.	0.8	4
114	Geometrical compensation of (100) single-crystal silicon mode-matched vibratory ring gyroscope. , 2018, , .		4
115	Moving Mask Direct Photo-Etching (M2DPE) for 3D Micromachining of Polytetrafluoroethylene. IEEJ Transactions on Sensors and Micromachines, 2006, 126, 499-503.	0.0	4
116	Laser-driven optothermal microactuator operated in water. Applied Optics, 2020, 59, 1627.	0.9	4
117	MONOLITHIC PYROELECTRIC INFRARED IMAGE SENSOR USING PVDF THIN FILM. IEEJ Transactions on Sensors and Micromachines, 1997, 117, 607-611.	0.0	3
118	<title>Etching rate control of mask material for XeF<formula><inf><roman>2</roman></inf></formula> etching using UV exposure</title> . , 2001, 4557, 18.		3
119	Deep X-ray exposure system with multistage for 3D microfabrication. Journal of Micromechatronics, 2002, 2, 1-11.	1.9	3
120	Cellular automaton simulation of micropowder blasting with mask erosion. IEEJ Transactions on Electrical and Electronic Engineering, 2007, 2, 348-356.	0.8	3
121	The effect of polymer matrix on laser microfabrication of Au nanoparticles dispersed polymer resists. Applied Surface Science, 2008, 255, 2237-2243.	3.1	3
122	Extreme-low-power thermal convective accelerometer based on CNT sensing element. , 2009, , .		3
123	Extraction Equilibrium of Ethanol for Bioethanol Production — Solvent Selection and Liquid-liquid Equilibrium Measurement —. Journal of the Japan Petroleum Institute, 2010, 53, 135-143.	0.4	3
124	Self-dependent equivalent circuit modeling of electrostatic comb transducers for integrated MEMS. , 2011, , .		3
125	Investigation of Molecular Diffusivity of Photoresist Membrane using Coarse-Grained Molecular Dynamics Simulation. Procedia Engineering, 2012, 47, 402-405.	1.2	3
126	Rotational motion effect on sensitivity matrix of MEMS three-axis accelerometer for realization of concurrent calibration using vibration table. , 2013, , .		3

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127	Double-side-drive electrostatic optical chopper for time-resolved Raman spectroscopy. , 2014, , .		3
128	Experimental verification of frequency decoupling effect on acceleration sensitivity in tuning fork gyroscopes using in-plane coupled resonators. Microsystem Technologies, 2014, 20, 403-411.	1.2	3
129	An isolated DC power supply free compact GaN inverter module. , 2015, , .		3
130	Tensile test of a silicon microstructure fully coated with submicrometer-thick diamond like carbon film using plasma enhanced chemical vapor deposition method. Japanese Journal of Applied Physics, 2017, 56, 06GN01.	0.8	3
131	Low temperature, wafer-level process of alkali-metal vapor cells for micro-fabricated atomic clocks. , 2017, , .		3
132	Rhombic‧haped Nanostructures and Mechanical Properties of 2D DNA Origami Constructed with Different Crossover/Nick Designs. Small, 2018, 14, 1702028.	5.2	3
133	DNA-DNA Origami. , 2015, , 589-603.		3
134	Process Simulation System for 3D X-Ray Lithography and Development. IEEJ Transactions on Sensors and Micromachines, 2003, 123, 368-375.	0.0	3
135	Out-of-plane Bending Vibration Fracture Test of Polycrystalline Silicon Thin-film Membrane. IEEJ Transactions on Sensors and Micromachines, 2012, 132, 224-229.	0.0	3
136	Novel Microfabricated Capillary Array Electrophoresis Chip Fabricated by Synchrotron Radiation and Direct Observation of Dynamics of DNA Molecules Migrating in Microchannels. , 1998, , 331-334.		3
137	Surfaceâ€enhanced Raman spectroscopy with gold nanoparticle dimers created by sacrificial DNA origami technique. Micro and Nano Letters, 2020, 15, 384-389.	0.6	3
138	Automated optimization of light dose distribution for moving-mask lithography. , 2009, , .		2
139	Configurable assembly of DNA origami on MEMS by microfluidic device. , 2011, , .		2
140	Equivalent circuit analysis of micromechanical resonator using comb transducer model with built-in displacement detection. , 2011, , .		2
141	Epoxy-based permeable membrane fabrication for 3D microfluidic device. , 2011, , .		2
142	mESC and hiPSC Proliferation on Negative Photoresists for Microfluidics. Procedia Engineering, 2011, 25, 1233-1236.	1.2	2
143	Fatigue Testing of Polycrystalline Silicon Thin-Film Membrane Using Out-of-Plane Bending Vibration. Japanese Journal of Applied Physics, 2012, 51, 11PA02.	0.8	2
144	Analytical investigation of the feasibility of sacrificial microchannel sealing for Chip-Scale Atomic Magnetometers. Microsystem Technologies, 2014, 20, 357-365.	1.2	2

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145	Direct characterization of radial modulus of DNA nanotube by AFM nanoindentation. , 2015, , .		2
146	MEMS deformable mirror actuated by electrostatic piston array. , 2016, , .		2
147	Effect of Crystallographic Orientations on Fractures and Slip Occurrences at 500 ŰC of (110) Single Crystal Silicon Microstructures. Procedia Structural Integrity, 2016, 2, 1413-1420.	0.3	2
148	Microfabrication of Embedding a Flexible Parylene-Based Microelectrode Array within Body-on-a-Chip. Proceedings (mdpi), 2017, 1, 302.	0.2	2
149	Mechanical and Electrical Clamping of DEP Assembled SWCNT Using Electroless Gold Deposition. IEEJ Transactions on Sensors and Micromachines, 2012, 132, 108-113.	0.0	2
150	High-Yield Bridged Assembly of ssDNA-Modified SWCNT Using Dielectrophoresis. International Journal of Automation Technology, 2018, 12, 29-36.	0.5	2
151	Clinical observation of osteoarthrosis of the temporomandibular joint. Relation to internal derangement Nihon Koku Geka Gakkai Zasshi, 1991, 37, 118-126.	0.0	2
152	μ-CE Chip Fabricated by Moving Mask Deep X-ray Lithography Technology. , 2000, , 143-146.		2
153	Algorithm to Derive Optimal Mask and Movement Patterns in Moving Mask Deep X-ray Lithography (M2DXL). IEEJ Transactions on Sensors and Micromachines, 2005, 125, 222-228.	0.0	2
154	Deceleration of ion beams for film deposition by an electrostatic field. Nuclear Instruments & Methods in Physics Research B, 1989, 37-38, 906-909.	0.6	1
155	Low Temperature Preparation of SnO2 Film by Photo CVD with Sn(CH3)4-O2 or O3 System Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 1994, 45, 547-548.	0.1	1
156	Damageless Magnetron Sputtering Deposition of SnO2:Sb Thin Films with Compensation Methods. Materials Research Society Symposia Proceedings, 1995, 403, 423.	0.1	1
157	A Surface Micromachined Resonant Accelerometer Based on Rigidity Change. IEEJ Transactions on Sensors and Micromachines, 1998, 118, 413-419.	0.0	1
158	Down-Sizing in Analytical Chemistry. Fabrication of a micro-channel chip for electrophoresis by using a Photosensitive epoxy resin as an etching mask Bunseki Kagaku, 2000, 49, 1037-1041.	0.1	1
159	Reduction in surface roughness and aperture size effect for XeF 2 etching of Si. , 2003, , .		1
160	Temperature Controlled Capillary Driven Sequential Stacking Self-Assembly using Two Different Adhesives. , 2007, , .		1
161	Effect of Surface Oxide Layer on Mechanical Properties of Single Crystalline Silicon. Materials Research Society Symposia Proceedings, 2007, 1052, 1.	0.1	1
162	Micro/Nano Assembly as a Key to SENS (Synthetic Engineering for Nano Systems). ECS Transactions, 2009, 16, 49-64.	0.3	1

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163	DNA-grafted-polymer mediated self-assembly of micro components. , 2010, , .		1
164	Coarse-Grained Molecular Dynamics Simulation of Epoxy-Based Chemically-Amplified Resist for MEMS Application. Materials Research Society Symposia Proceedings, 2012, 1415, 139.	0.1	1
165	Evaluation of strain gauge factors of graphene ribbon models based on first-principles electronic-state calculations. , 2012, , .		1
166	First-principles simulation on orientation dependence of piezoresistivity in graphene nanoribbon. , 2014, , .		1
167	Optimization methods for 3D lithography process utilizing DMD-based maskless grayscale photolithography system. Proceedings of SPIE, 2015, , .	0.8	1
168	FET properties of single-walled carbon nanotubes individually assembled utilizing single strand DNA. , 2015, , .		1
169	Investigation of the selfâ€assembly process for discrete and polymerized bivalve DNA origami structures. IEEJ Transactions on Electrical and Electronic Engineering, 2016, 11, S164.	0.8	1
170	Photoresist Micro-Chamber for the Diffracted X-ray Tracking Method Recording Single-Molecule Conformational Changes. Procedia Engineering, 2016, 168, 1394-1397.	1.2	1
171	Microfabrication of Cs-filled MEMS cell using sequential plasma activated bonding. , 2017, , .		1
172	Thermomechanical noise of arrayed capacitive accelerometers with 300-NM-gap sensing electrodes. , 2017, , .		1
173	Microchannel Fabrication Using A Photo-Patternable Adhesive Material for Recording Conformational Changes of KcsA Channel with the Diffracted X-ray Tracking Method. Proceedings (mdpi), 2018, 2, 972.	0.2	1
174	Ferroelectric Extended Nanofluidic Channels for Roomâ€Temperature Microfuel Cells. Advanced Materials Technologies, 2019, 4, 1900252.	3.0	1
175	Microfabricated alkali metal vapor cells filled with an on-chip dispensing component. Japanese Journal of Applied Physics, 2021, 60, SCCL01.	0.8	1
176	Material Properties. , 2006, , 53-92.		1
177	Study on Vibration-coupling Control of Out-of-plane Coupled Resonator for Anti-shock Tuning Fork Gyroscopes. IEEJ Transactions on Sensors and Micromachines, 2014, 134, 392-399.	0.0	1
178	Mathematical Modeling and Analysis of MEMS Deformable Mirror Actuated by Electrostatic Piston Array. IEEJ Transactions on Sensors and Micromachines, 2018, 138, 66-73.	0.0	1
179	Parallel Tensile Testing of Single-crystal Silicon Microstructures with Integrated Piezoresistive Strain Gauges. Sensors and Materials, 2018, 30, 2143.	0.3	1
180	Design Strategy of Electrode Patterns Based on Finite Element Analysis in Microfluidic Device for Trans-Epithelial Electrical Resistance (TEER) Measurement. IEEJ Transactions on Sensors and Micromachines, 2020, 140, 285-292.	0.0	1

#	Article	IF	CITATIONS
181	Can a Gravitational Wave and a Magnetic Monopole Coexist?. Modern Physics Letters A, 1997, 12, 3009-3015.	0.5	0
182	<title>Two-axis detection resonant accelerometer based on rigidity change</title> . , 1998, 3514, 210.		0
183	MICRO CAPILLARY ARRAY ELECTROPHORESIS CHIP BY MOVING MASK LIGA TECHNOLOGY. International Journal of Information Acquisition, 2004, 01, 39-46.	0.2	0
184	Mechanical calibration of MEMS spring with 0.1-μn force resolution. , 2007, , .		0
185	Micro-powder blasting simulation with mask erosion using cellular automaton. , 2007, , .		0
186	Versatile method of sub-micro particle pattern formation using self-assembly and two-step transfer. , 2007, , .		0
187	Workshop Speech: Role of University Research for Open Innovations in MNT. , 2007, , .		0
188	Design and Analysis of Resonance Transition Radiation X-ray Source for Tabletop Synchrotron. AIP Conference Proceedings, 2007, , .	0.3	0
189	Design of A Soft X-ray Source with Periodic Microstructure Using Resonance Transition Radiation for Tabletop Synchrotron. IEEJ Transactions on Electrical and Electronic Engineering, 2008, 3, 268-273.	0.8	0
190	DNA Mediated Sequential Self-assembly of Au Nano-particles. Journal of the Society of Powder Technology, Japan, 2008, 45, 156-161.	0.0	0
191	Imaging and measuring the protein distribution of lymphoma cells using atomic force microscopy. , 2011, , .		0
192	High-speed pulsed mixing with high-frequency switching of pumping from three inlet microchannels. , 2011, , .		0
193	Modal harmonie simulation of decoupled resonators for developing MEMS tuning fork gyroeope with low acceleration sensitivity. , 2011, , .		0
194	High-Speed Pulsed Mixing With High-Frequency Switching of Pumping From Three Micropumps. , 2011, , .		0
195	IEEE-NEMS 2012, Kyoto, Japan [Conference Review]. IEEE Nanotechnology Magazine, 2012, 6, 30-31.	0.9	0
196	Stem Cells: Phenotypic and Transcriptional Modulation of Human Pluripotent Stem Cells Induced by Nano/Microfabrication Materials (Adv. Healthcare Mater. 2/2013). Advanced Healthcare Materials, 2013, 2, 234-234.	3.9	0
197	Microfluidic cell sorter for photodynamic urine diagnosis. , 2013, , .		0
198	Manipulation of DNA origami nanotubes in liquid using a programmable tapping mode AFM. , 2013, , .		0

#	Article	IF	CITATIONS
199	Photoresist-based Microfluidic Cell Sorter for Photodynamic Urine Diagnosis. Procedia Engineering, 2014, 87, 62-65.	1.2	0
200	Alkali metal source tablet for vapor cells of atomic magnetometers. , 2015, , .		0
201	New coarse-grained molecular dynamics model of double stranded DNA chain for DNA origami. , 2016, , \cdot		0
202	Tensile properities of single-crystal-silicon fully coated with submicrometer-thick PECVD DLC. , 2017, , .		0
203	MEMS based fabrication of conformal electrode pairs for thermotunneling cooling. , 2017, , .		0
204	Mathematical Modeling and Analysis of MEMS Deformable Mirror Actuated by Electrostatic Piston Array. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2018, 204, 50-60.	0.2	0
205	Improved sensitivity of ionic liquid-based pressure sensor for body-on-a-chip using simulation-based 3D lithography. , 2018, , .		0
206	Alkali Metal Dispenser Utilizing Scalloped Silicon Groove for Microfabricated Vapor Cells. , 2018, , .		0
207	Vacuum emission in large-area nanogap fabricated by MEMS-controlled cleavage of single crystal silicon. , 2018, , .		0
208	A Design Method of Organ-on-a-Chip with Highly Accurate Measurement of Trans-Epithelial Electrical Resistance. IEEJ Transactions on Sensors and Micromachines, 2021, 141, 237-244.	0.0	0
209	Material Properties: Measurement and Data. , 2006, , 53-92.		0
210	Sequential Stacking Self-Assembly using Interfacial Tension of Two Different Droplets. IEEJ Transactions on Sensors and Micromachines, 2007, 127, 214-220.	0.0	0
211	Sacrificial Microchannel Sealing by Glass-Frit Reflow for Chip Scale Atomic Magnetometer. IEEJ Transactions on Sensors and Micromachines, 2011, 131, 251-257.	0.0	0
212	OS1211 Effect of Temperature and Humidity on Fatigue Fracture of Polysilicon Thin Films using Out-of-plane Resonant Vibration. The Proceedings of the Materials and Mechanics Conference, 2013, 2013, _OS1211-1OS1211-2	0.0	0
213	DNA-DNA origami. , 2014, , 1-16.		0
214	J2240106 MEMS tensile testing of silicon nanowire batch-fabricated using multi-step ICP-RIE. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _J2240106J2240106	0.0	0
215	Fabrication and Characterization of Chain-like Arrangement of Gold Nanoparticles using Nanotemplates. IEEJ Transactions on Sensors and Micromachines, 2015, 135, 474-475.	0.0	0
216	Analysis of Aggregation Reaction of Silver Nanoparticles in Microchannel for Highly Sensitive Surface-Enhanced Raman Spectroscopy. IEEJ Transactions on Sensors and Micromachines, 2015, 135, 433-438.	0.0	0

#	Article	IF	CITATIONS
217	Development of a Body-on-a-Chip Using 3-D Microstructuring Technique. IEEJ Transactions on Sensors and Micromachines, 2016, 136, 229-236.	0.0	0
218	Tensile Strength and Deviation Analysis of Micro-scaled Silicon Structure with Full-coated PECVD DLC Film. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2017, 2017.8, PN-129.	0.0	0
219	Simultaneous optimization of electric current and layout of actuators for shape control. The Proceedings of OPTIS, 2018, 2018.13, 307.	0.0	0
220	Revealing the Influential Factor on Dimerizing of Triangular DNA Origami by Linker. IEEJ Transactions on Sensors and Micromachines, 2018, 138, 171-177.	0.0	0
221	Specific Binding of DNA Origami on a Nanoscale Pattern Formed by AFM Lithography. IEEJ Transactions on Sensors and Micromachines, 2019, 139, 95-102.	0.0	0
222	Novel Microfluidic Device Integrated with a Fluidic-Capacitor to Mimic Heart Beating for Generation of Functional Liver Organoids. IEEJ Transactions on Sensors and Micromachines, 2019, 139, 209-216.	0.0	0