

Hidetoshi Kotera

List of Publications by Year in descending order

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248
papers

3,145
citations

186265

28
h-index

189892

50
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252
all docs

252
docs citations

252
times ranked

3364
citing authors

#	ARTICLE	IF	CITATIONS
1	Distinct Kinetics in Electrophoretic Extraction of Cytoplasmic RNA from Single Cells. <i>Analytical Chemistry</i> , 2020, 92, 1485-1492.	6.5	7
2	Cell Culture on Low-Fluorescence and High-Resolution Photoresist. <i>Micromachines</i> , 2020, 11, 571.	2.9	5
3	Different motilities of microtubules driven by kinesin-1 and kinesin-14 motors patterned on nanopillars. <i>Science Advances</i> , 2020, 6, eaax7413.	10.3	13
4	Self-aligned fabrication process for active membrane in magnetically driven micropump using photosensitive composite. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 025006.	2.6	6
5	Pluripotent Stem Cell Heterogeneity: Clonal Isolation of Human Pluripotent Stem Cells on Nanofibrous Substrates Reveals an Advanced Subclone for Cardiomyocyte Differentiation (Adv.) <i>Tj ETQq1 1 0.7843714 rgBT /Overlock</i>		
6	Spatial Patterning of Kinesin-1 and Dynein Motor Proteins in an In Vitro Assay using Aqueous Two-Phase Systems (ATPS). <i>Langmuir</i> , 2019, 35, 13003-13010.	3.5	4
7	Transport of microtubules according to the number and spacing of kinesin motors on gold nano-pillars. <i>Nanoscale</i> , 2019, 11, 9879-9887.	5.6	7
8	Correlation between Cells-on-Chips materials and cell adhesion/proliferation focused on material's surface free energy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 565, 188-194.	4.7	9
9	Dynamics of RNA in single cells under focused electric field. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2019, 2019, J22109.	0.0	0
10	Length bias-free extraction of cytoplasmic RNA from single cells by electrical lysis and electrophoresis. , 2019, , .		0
11	Perfusable Vascular Network with a Tissue Model in a Microfluidic Device. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	6
12	Simultaneous Observation of Kinesin-Driven Microtubule Motility and Binding of Adenosine Triphosphate Using Linear Zero-Mode Waveguides. <i>ACS Nano</i> , 2018, 12, 11975-11985.	14.6	14
13	Electrical Lysis and RNA Extraction from Single Cells Fixed by Dithiobis(succinimidyl propionate). <i>Analytical Chemistry</i> , 2018, 90, 12512-12518.	6.5	15
14	Engineering of vascularized 3D cell constructs to model cellular interactions through a vascular network. <i>Biomicrofluidics</i> , 2018, 12, 042204.	2.4	42
15	Low Cell-Matrix Adhesion Reveals Two Subtypes of Human Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2018, 11, 142-156.	4.8	37
16	SINC-seq: correlation of transient gene expressions between nucleus and cytoplasm reflects single-cell physiology. <i>Genome Biology</i> , 2018, 19, 66.	8.8	50
17	Fabrication of Magnetically Driven Microvalve Arrays Using a Photosensitive Composite. <i>Magnetochemistry</i> , 2018, 4, 7.	2.4	10
18	Numerical analyses on single-cell electroporation and RNA extraction under focused electric field. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2018, 2018, J0530202.	0.0	0

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19	Isotachophoresis-based RNA extraction from fixed single cells. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2018, 2018.9, 30am3PN37.	0.0	0
20	Engineering a Perfusable Vascular Network in a Microfluidic Device for a Morphological Analysis. IEEJ Transactions on Sensors and Micromachines, 2018, 138, 275-280.	0.1	1
21	Characterization of Microtubules Gliding on Surfaces Roughness Structure. IEEJ Transactions on Sensors and Micromachines, 2018, 138, 503-508.	0.1	0
22	Nano-patterning of motor proteins to control number of kinesin molecules transporting a single microtubule. , 2017, , .		0
23	Linear zero mode waveguides for the study of chemo-mechanical coupling mechanism of kinesin. , 2017, , .		1
24	Engineering a three-dimensional tissue model with a perfusable vasculature in a microfluidic device. , 2017, , .		0
25	Closed-channel culture system for efficient and reproducible differentiation of human pluripotent stem cells into islet cells. Biochemical and Biophysical Research Communications, 2017, 487, 344-350.	2.1	27
26	Integrating perfusable vascular networks with a three-dimensional tissue in a microfluidic device. Integrative Biology (United Kingdom), 2017, 9, 506-518.	1.3	188
27	Human Pluripotent Stem Cell-Derived Cardiac Tissue-like Constructs for Repairing the Infarcted Myocardium. Stem Cell Reports, 2017, 9, 1546-1559.	4.8	107
28	Control of molecular shuttles by designing electrical and mechanical properties of microtubules. Science Robotics, 2017, 2, .	17.6	31
29	Microtubule density and landing rate as parameters to analyze tau protein in the MT-kinesin "gliding" assay. Sensors and Actuators B: Chemical, 2017, 238, 954-961.	7.8	4
30	Culture substrates made of elastomeric micro-tripod arrays for long-term expansion of human pluripotent stem cells. Journal of Materials Chemistry B, 2017, 5, 236-244.	5.8	10
31	Integration of Au nano-pillars and SAM enables protein patterning with designed spacing at single molecule level. , 2017, , .		0
32	Extracellular Recordings of Patterned Human Pluripotent Stem Cell-Derived Cardiomyocytes on Aligned Fibers. Stem Cells International, 2016, 2016, 1-9.	2.5	12
33	Development of a local light stimulation device integrated with micro electrode array. Mechanical Engineering Journal, 2016, 3, 15-00570-15-00570.	0.4	0
34	Single-molecule fluorescence imaging of kinesin using linear zero-mode waveguides. , 2016, , .		2
35	Minimization of cell-substrate interaction using suspended microstructured meshes initiates cell sheet formation by self-assembly organization. Biomedical Physics and Engineering Express, 2016, 2, 065019.	1.2	6
36	Adhesion patterning by a novel air-lock technique enables localization and <i>in-situ</i> real-time imaging of reprogramming events in one-to-one electrofused hybrids. Biomicrofluidics, 2016, 10, 054122.	2.4	5

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37	Controlling Gliding Trajectories of Microtubules by Altering Microtubule Flexural Rigidity. Biophysical Journal, 2016, 110, 504a.	0.5	0
38	On-chip microtubule gliding assay for parallel measurement of tau protein species. Lab on A Chip, 2016, 16, 1691-1697.	6.0	12
39	On chip purification of hiPSC-derived cardiomyocytes using a fishnet-like microstructure. Biofabrication, 2016, 8, 035017.	7.1	5
40	Extraction efficiency of RNA at single cell level via microfluidic isotachopheresis. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, J0540301.	0.0	0
41	Velocity Control of Microtubules with High Spatial Resolution on an Au-coated Surface with an SU-8 Thermal Isolation Layer. IEJ Transactions on Sensors and Micromachines, 2016, 136, 77-82.	0.1	0
42	Control of microtubule trajectory within an electric field by altering surface charge density. Scientific Reports, 2015, 5, 7669.	3.3	27
43	Microtubule sorting within a given electric field by designing flexural rigidity. , 2015, , .		0
44	Vascular network formation for a long-term spheroid culture by co-culturing endothelial cells and fibroblasts. , 2015, , .		5
45	Development of low-fluorescence thick photoresist for high-aspect-ratio microstructure in bio-application. Biomicrofluidics, 2015, 9, 022405.	2.4	9
46	A method for controlling microtubule velocity using light irradiance on a patterned gold surface. , 2015, , .		0
47	Dynamic formation of a microchannel array enabling kinesin-driven microtubule transport between separate compartments on a chip. Lab on A Chip, 2015, 15, 2055-2063.	6.0	8
48	Cell Adhesion Minimization by a Novel Mesh Culture Method Mechanically Directs Trophoblast Differentiation and Self-Assembly Organization of Human Pluripotent Stem Cells. Tissue Engineering - Part C: Methods, 2015, 21, 1105-1115.	2.1	20
49	J0540101 Purity of cytoplasmic RNA extracted from single cells via electrical lysis and isotachopheresis. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J0540101-_J0540101-.	0.0	0
50	K22100 Future of Micro Devices. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _K22100-1_-_K22100-2_.	0.0	0
51	MoP-25 DEVELOPMENT OF A LOCAL LIGHT STIMULATION DEVICE INTEGRATED WITH MICRO ELECTRODE ARRAY. Proceedings of JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for Information and Precision Equipment IIP/ISPS Joint MIPE, 2015, 2015, _MoP-25-1_-_MoP-25-3_.	0.0	0
52	Transition of Q-dot distribution on microtubule array enclosed by PDMS sealing for axonal transport model. , 2014, , .		0
53	Optical velocity control of microtubules driven by kinesin motors. , 2014, , .		0
54	Control of cell orientation in mesenchymal cell sheets fabricated using microstructured mesh sheet. , 2014, , .		0

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55	On-Chip Separation and Analysis of RNA and DNA from Single Cells. Analytical Chemistry, 2014, 86, 1953-1957.	6.5	54
56	Single-cell cloning and expansion of human induced pluripotent stem cells by a microfluidic culture device. Biochemical and Biophysical Research Communications, 2014, 453, 131-137.	2.1	15
57	Tug-of-war of microtubule filaments at the boundary of a kinesin- and dynein-patterned surface. Scientific Reports, 2014, 4, 5281.	3.3	17
58	Subcellular glucose exposure biases the spatial distribution of insulin granules in single pancreatic beta cells. Scientific Reports, 2014, 4, 4123.	3.3	6
59	Development of an electromagnetic micropump with photosensitive magnetic nanocomposite. Nihon AEM Gakkaishi, 2014, 22, 202-207.	0.1	1
60	Fabrication of a Perfusable Glass Microfluidic Channel for Microtubule Manipulation using an Electric Field. IEEJ Transactions on Sensors and Micromachines, 2014, 134, 64-69.	0.1	0
61	Colocalization of Quantum Dots by Reactive Molecules Carried by Motor Proteins on Polarized Microtubule Arrays. ACS Nano, 2013, 7, 447-455.	14.6	42
62	Wide-range frequency selectivity in an acoustic sensor fabricated using a microbeam array with non-uniform thickness. Journal of Micromechanics and Microengineering, 2013, 23, 115014.	2.6	26
63	Development of a High-Throughput DNA Fiber Analysis Device Using MEMS Technology. IEEJ Transactions on Sensors and Micromachines, 2013, 133, 139-146.	0.1	0
64	Composition Dependence of Piezoelectric Properties of Pb(Zr,Ti)O ₃ Films Prepared by Combinatorial Sputtering. Japanese Journal of Applied Physics, 2012, 51, 09LA12.	1.5	19
65	Improvement of processing reproducibility for a magnetic-driven microstructure made of photosensitive nanocomposite. , 2012, , .		1
66	Cell culture on MEMS materials in microenvironment limited by a physical condition. Micro and Nano Letters, 2012, 7, 725.	1.3	8
67	Micro fabrication of lead-free (K,Na)NbO ₃ piezoelectric thin films by dry etching. Micro and Nano Letters, 2012, 7, 1223-1225.	1.3	7
68	Development of a universal integrated micro cell culture system. , 2012, , .		0
69	Manipulation and observation of binding of molecules driven by motor proteins. , 2012, , .		0
70	Perfusable multi-scale channels fabricated by integration of nanoimprint lithography (NIL) and UV lithography (UVL). Microelectronic Engineering, 2012, 98, 58-63.	2.4	11
71	Highly polarized single-c-domain single-crystal Pb(Mn,Nb)O ₃ -PZT thin films. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 6-13.	3.0	24
72	Integrated blood cell counting device using a hydrophobic surface treatment. Sensors and Actuators B: Chemical, 2012, 171-172, 1321-1326.	7.8	1

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73	Human and Mouse Induced Pluripotent Stem Cells Are Differentially Reprogrammed in Response to Kinase Inhibitors. <i>Stem Cells and Development</i> , 2012, 21, 1287-1298.	2.1	21
74	Self-aligned fabrication process for active membrane made of photosensitive nanocomposite. , 2012, , .		6
75	Nano-particle deposition system (NPDS): Low energy solvent-free dry spray process for direct patterning of metals and ceramics at room temperature. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012, 13, 1107-1112.	2.2	40
76	Metal-based piezoelectric microelectromechanical systems scanner composed of Pb(Zr, Ti)O ₃ thin film on titanium substrate. <i>Microsystem Technologies</i> , 2012, 18, 765-771.	2.0	17
77	A perfusable microfluidic device with on-chip total internal reflection fluorescence microscopy (TIRFM) for in situ and real-time monitoring of live cells. <i>Biomedical Microdevices</i> , 2012, 14, 791-797.	2.8	11
78	Power-generation performance of lead-free (K,Na)NbO ₃ piezoelectric thin-film energy harvesters. <i>Sensors and Actuators A: Physical</i> , 2012, 179, 132-136.	4.1	118
79	Thin-Film Piezoelectric Materials For a Better Energy Harvesting MEMS. <i>Journal of Microelectromechanical Systems</i> , 2012, 21, 451-457.	2.5	68
80	Localized substance delivery to single cell and 4D imaging of its uptake using a flow channel with a lateral aperture. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 423-429.	2.2	1
81	Composition Dependence of Piezoelectric Properties of Pb(Zr,Ti)O ₃ Films Prepared by Combinatorial Sputtering. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 09LA12.	1.5	9
82	Open-access and multi-directional electroosmotic flow chip for positioning heterotypic cells. <i>Lab on A Chip</i> , 2011, 11, 1507.	6.0	9
83	Shear piezoelectric coefficient d_{15} of c-axis oriented epitaxial Pb(Zr,Ti)O ₃ films. , 2011, , .		0
84	Microfluidic device for high-yield pairing and fusion of stem cells with somatic cells. , 2011, , .		2
85	Real-time monitoring of Ca. , 2011, , .		1
86	Selective kinesin and dynein immobilization and electrical microtubule manipulation for bidirectional microtubule motility. , 2011, , .		0
87	Dual Q-dot transport on microtubule array with polarity defined by nanotracks and microtubule motility control. , 2011, , .		1
88	Metal-based piezoelectric MEMS scanner mirrors composed of PZT thin films on titanium substrates. , 2011, , .		4
89	Surface Plasmon Resonance on the Sapphire Single Crystal Substrates with 3D Nano-Textured Surface. <i>Hyomen Kagaku</i> , 2011, 32, 45-51.	0.0	1
90	Development of a Three Dimensional Passive Lamination Micromixer. , 2011, , .		0

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91	Polystyrene microdispenser for blood tests using hydrophobic passive valve. Sensors and Actuators A: Physical, 2011, 169, 274-281.	4.1	3
92	Piezoelectric properties of microfabricated (K,Na)NbO ₃ thin films. Sensors and Actuators A: Physical, 2011, 171, 223-227.	4.1	28
93	Development of piezoelectric MEMS deformable mirror. Microsystem Technologies, 2011, 17, 931-935.	2.0	5
94	Measuring the force of adhesion between multiple kinesins and a microtubule using the fluid force produced by microfluidic flow. Microfluidics and Nanofluidics, 2011, 11, 519-527.	2.2	3
95	Effect of Actomyosin Contractility on Lamellipodial Protrusion Dynamics on a Micropatterned Substrate. Cellular and Molecular Bioengineering, 2011, 4, 389-398.	2.1	3
96	Dielectrophoresis-assisted massively parallel cell pairing and fusion based on field constriction created by a micro-orifice array sheet. Electrophoresis, 2011, 32, 2496-2501.	2.4	41
97	Effects of Resist Thickness and Viscoelasticity on the Cavity Filling Capability in Bilayer Thermal Embossing. Japanese Journal of Applied Physics, 2011, 50, 06GK11.	1.5	5
98	Multilayer Thin-Film Capacitor Fabricated by Radio-Frequency Magnetron Sputtering. Japanese Journal of Applied Physics, 2011, 50, 09NA01.	1.5	9
99	Multilayer thin-film capacitors fabricated by radio-frequency magnetron sputtering. , 2011, , .		0
100	D-2-1 Fabrication of Sub-micrometer Channels for Bio-assay Perfusion Device by Integrating Nanoimprint Lithography and UV Lithography. The Proceedings of the Conference on Information Intelligence and Precision Equipment IIP, 2011, 2011, 28-29.	0.0	0
101	High-efficiency piezoelectric energy harvesters of c-axis-oriented epitaxial PZT films transferred onto stainless steel cantilevers. Sensors and Actuators A: Physical, 2010, 163, 428-432.	4.1	140
102	Dielectrophoretic cell trapping and parallel one-to-one fusion based on field constriction created by a micro-orifice array. Biomicrofluidics, 2010, 4, .	2.4	80
103	Orientation Dependence of Transverse Piezoelectric Properties of Epitaxial BaTiO ₃ Films. Japanese Journal of Applied Physics, 2010, 49, 09MA09.	1.5	20
104	Orientation Dependence of Shear Mode Piezoelectric Properties of Epitaxial Pb(Zrx,Ti1-x)O ₃ Thin Films. Japanese Journal of Applied Physics, 2010, 49, 09MA07.	1.5	8
105	Ternary perovskite thin films for energy harvesting MEMS. , 2010, , .		2
106	10.1063/1.3422544.1. , 2010, , .		2
107	MNM-4B-4 Micro-actuator using magnetic particles and development of simulation method. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2010, 2010.2, 189-190.	0.0	0
108	J0207-2-1 Heterotypic cell positioning using electroosmotic flow and observation of cell-cell interactions. The Proceedings of the JSME Annual Meeting, 2010, 2010.6, 239-240.	0.0	0

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109	B-4 Fabrication of optical communication device with piezoelectric micro mirror array. The Proceedings of the Conference on Information Intelligence and Precision Equipment IIP, 2010, 2010, 73-74.	0.0	0
110	T1601-1-4 Fabrication of piezoelectric cantilever-shaped actuators with lead-free KNbO ₃ -NaNbO ₃ thin films. The Proceedings of the JSME Annual Meeting, 2010, 2010.8, 193-194.	0.0	0
111	J0207-1-6 Bi-directional transport of motor protein by electrophoresis. The Proceedings of the JSME Annual Meeting, 2010, 2010.6, 135-136.	0.0	0
112	Evaluation of Intrinsic Shear Piezoelectric Coefficient of c-Axis Oriented Pb(Zr,Ti)O ₃ Films. Applied Physics Express, 2009, 2, 091402.	2.4	11
113	High coupling piezoelectric thin films of Pb(Zr,Ti)O ₃ -based ternary perovskite compounds for GHz-range film bulk acoustic resonators. Applied Physics Letters, 2009, 94, .	3.3	28
114	Development of liquid pumping devices using vibrating microchannel walls. Sensors and Actuators A: Physical, 2009, 152, 211-218.	4.1	49
115	Pressure-Mediated Transfection of Murine Spleen and Liver. Human Gene Therapy, 2009, 20, 1157-1167.	2.7	20
116	Simple Fabrication of Metal-Based Piezoelectric MEMS by Direct Deposition of $\text{Pb}(\text{hbox}{Zr},)$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 347 Td (Rep) Systems, 2009, 18, 610-615.	2.5	40
117	Surface Plasmon Resonance and Surface Plasmon Field-Enhanced Fluorescence Spectroscopy for Sensitive Detection of Tumor Markers. Methods in Molecular Biology, 2009, 503, 3-20.	0.9	20
118	TISSUE-MIMICKING IN VITRO ANALYSIS SYSTEM to exclusively stimulate single cell and detect its physiological reaction. , 2009, , .		1
119	Development of Micro Actuator using Magnetic Powder and Elastic Material (First) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (Rep) Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2009, 56, 127-132.	0.2	21
120	Development of Micro Actuator using Magnetic Powder and Elastic Material (Second) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (Rep) Japan Society of Powder and Powder Metallurgy, 2009, 56, 133-136.	0.2	20
121	P-MCH-04 Piezoelectric micropumping system using PZT thin films(Micro/Nanomechatronics,Technical) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (Rep) Micromechatronics for Information and Precision Equipment IIP/ISPS Joint MIPE, 2009, 2009, 387-388.	0.0	0
122	M5-3 Fabrication of PZT thin-film actuator by surface-machining process (M5 Actuator and Physical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 347 Td (Rep)	0.0	0
123	P-MCH-03 LOCALIZED SUBSTANCE DELIVERY TO SINGLE CELL BY THREE DIMENSIONAL MICROFLUIDIC DEVICE(Micro/Nanomechatronics,Technical Program of Poster Session). Proceedings of JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for Information and Precision Equipment IIP/ISPS Joint MIPE, 2009, 2009, 385-386.	0.0	0
124	MCH-02 DEVELOPMENT OF A TISSUE-LIKE CHIP TO EXCLUSIVELY STIMULATE SINGLE CELL AND DETECT ITS PHYSIOLOGICAL REACTION(Micro/Nanomechatronics I,Technical Program of Oral Presentations). Proceedings of JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for Information and Precision Equipment IIP/ISPS Joint MIPE, 2009, 2009, 327-328.	0.0	0
125	MCH-01 DEVELOPMENT OF A NOVEL METHOD FOR STRETCHING DNA FIBERS ON MICROBRIDGES FABRICATED BY SINGLE-MASK INCLINED UV LITHOGRAPHY(Micro/Nanomechatronics I,Technical Program of Oral) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (Rep) Information and Precision Equipment IIP/ISPS Joint MIPE, 2009, 2009, 325-326.	0.0	2
126	S0201-3-5 Evaluation of Cell Protrusion Dynamics Using Micropatterning Technique. The Proceedings of the JSME Annual Meeting, 2009, 2009.5, 33-34.	0.0	0

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127	T1601-2-1 Development of piezoelectric MEMS deformable mirrors and their application for adaptive optics. The Proceedings of the JSME Annual Meeting, 2009, 2009.8, 245-246.	0.0	0
128	T1601-1-3 Development of piezoelectric MEMS deformable mirrors and their application for adaptive optics. The Proceedings of the JSME Annual Meeting, 2009, 2009.8, 237-238.	0.0	0
129	Gene transfer device utilizing micron-spiked electrodes produced by the self-organization phenomenon of Fe-alloy. Lab on A Chip, 2008, 8, 1104.	6.0	10
130	High-density piezoelectric actuator array for MEMS deformable mirrors composed of PZT thin films. , 2008, , .		1
131	Modal Analysis for Externally Driven Micropump and Additional Mass Effect of Water. Japanese Journal of Applied Physics, 2008, 47, 5226-5230.	1.5	3
132	Effects of fluid dynamic stress on fracturing of cell-aggregated tissue during purification for islets of Langerhans transplantation. Journal Physics D: Applied Physics, 2008, 41, 115507.	2.8	22
133	Numerical Simulation for Fibre Reinforced Rubber. Journal of Computational Science and Technology, 2008, 2, 587-596.	0.4	8
134	1P-309 HIGH-YIELD PARALLEL ELECTRO-FUSION DEVICE BASED ON FIELD CONSTRICTION AT AN ORIFICE ARRAY(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S70.	0.1	0
135	2107 High-resolution Piezoelectric Deformable Mirror for Adaptive Optics. The Proceedings of the Conference on Information Intelligence and Precision Equipment IIP, 2008, 2008, 228-231.	0.0	0
136	309 High-density piezoelectric MEMS deformable mirror for adaptive optics. The Proceedings of the JSME Annual Meeting, 2008, 2008.8, 17-18.	0.0	0
137	Genetic Extended-Fiber Network (GEN) Stretched Over Microbridges Fabricated by Single-Mask Inclined UV Lithography. , 2007, , .		1
138	Piezoelectric Properties of Epitaxial NaNbO_3 Thin Films Deposited on $(001)\text{SrRuO}_3/\text{Pt}/\text{MgO}$ Substrates. Japanese Journal of Applied Physics, 2007, 46, 6960.	1.5	41
139	Piezoelectric properties of $(\text{K},\text{Na})\text{NbO}_3$ thin films deposited on $(001)\text{SrRuO}_3/\text{Pt}/\text{MgO}$ substrates. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2562-2556.	3.0	42
140	Separation of long DNA chains using a nonuniform electric field: A numerical study. Physical Review E, 2007, 75, 011902.	2.1	22
141	Piezoelectric properties of $(\text{K}, \text{Na})\text{NbO}_3$ thin films deposited on $(001)\text{SrRuO}_3/\text{Pt}/\text{MgO}$ substrates. Applications of Ferroelectrics, IEEE International Symposium on, 2007, , .	0.0	4
142	High Throughput Cell Electroporation Array Fabricated by Single-Mask Inclined UV Lithography Exposure and Oxygen Plasma Etching. , 2007, , .		9
143	Fabrication of single crystal PZT thin films on glass substrates. Vacuum, 2007, 81, 571-578.	3.5	17
144	Development of Deformable Mirror Composed of Piezoelectric Thin Films for Adaptive Optics. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 155-161.	2.9	73

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145	Single-step replicable microfluidic check valve for rectifying and sensing low Reynolds number flow. <i>Microfluidics and Nanofluidics</i> , 2007, 3, 427-435.	2.2	28
146	Piezoelectric unimorph miroactuators with X-shaped structure composed of PZT thin films. <i>Microsystem Technologies</i> , 2007, 13, 825-829.	2.0	4
147	Micro cell encapsulation and its hydrogel-beads production using microfluidic device. <i>Microsystem Technologies</i> , 2007, 13, 951-958.	2.0	78
148	Development of a micro biochip integrated traveling wave micropumps and surface plasmon resonance imaging sensors. <i>Microsystem Technologies</i> , 2007, 13, 1391-1396.	2.0	19
149	MEMS Deformable Mirrors for Adaptive Optics Actuated by Piezoelectric PZT Films. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2007, 127, 518-523.	0.1	0
150	3304 Designing piezoelectric deformable mirror by using FEM simulation. <i>The Proceedings of the JSME Annual Meeting</i> , 2007, 2007.7, 295-296.	0.0	0
151	High-efficiency Low-voltage Electroporation Using Field Constriction at Micro Orifice. , 2006, , .		0
152	Proposal and Design of an on-Chip Organelle Selection: Ablation of Cell Structures with Femtosecond Laser Pulses. , 2006, , .		0
153	Concepts for a new class of all-polymer micropumps. <i>Lab on A Chip</i> , 2006, 6, 1147.	6.0	98
154	Characterization of Pb(Zr,Ti)O ₃ thin films deposited on stainless steel substrates by RF-magnetron sputtering for MEMS applications. <i>Sensors and Actuators A: Physical</i> , 2006, 125, 382-386.	4.1	53
155	Compound two-dimensional thermo-elastic and thermodynamic analysis for c-axis-oriented epitaxial lead titanate thin films. <i>Vacuum</i> , 2006, 81, 459-465.	3.5	2
156	The Influence of Activation Time on Contraction Force of Myocardial Tissue: a Simulation Study. , 2006, 2006, 2900-3.		3
157	Reproducing Nonlinear Force Velocity Relation of Myocardial Tissue by a Nonlinear Parallel Elastic Component. , 2006, 2006, 612-5.		0
158	Electric Field-Induced Strain of PbZrO ₃ Films. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 7258-7261.	1.5	5
159	Electroporation through a micro-fabricated orifice and its application to the measurement of cell response to external stimuli. <i>Measurement Science and Technology</i> , 2006, 17, 3127-3133.	2.6	44
160	Stress Distribution in a Rotationally Symmetric and a Measurement Based Left Ventricular Shape Model. , 2006, 2006, 624-7.		0
161	5517 Deformable MEMS mirror using piezoelectric thin film for adaptive optics. <i>The Proceedings of the JSME Annual Meeting</i> , 2006, 2006.7, 319-320.	0.0	0
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