Hidetoshi Kotera

List of Publications by Year
in descending order

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248	3,145	186265	189892
papers	citations	28 h-index	50 g-index

252	252	252	3364
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Measurement of transverse piezoelectric properties of PZT thin films. Sensors and Actuators A: Physical, 2003, 107, 68-74.	4.1	209
2	Integrating perfusable vascular networks with a three-dimensional tissue in a microfluidic device. Integrative Biology (United Kingdom), 2017, 9, 506-518.	1.3	188
3	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
4	Power-generation performance of lead-free (K,Na)NbO3 piezoelectric thin-film energy harvesters. Sensors and Actuators A: Physical, 2012, 179, 132-136.	4.1	118
5	Human Pluripotent Stem Cell-Derived Cardiac Tissue-like Constructs for Repairing the Infarcted Myocardium. Stem Cell Reports, 2017, 9, 1546-1559.	4.8	107
6	Concepts for a new class of all-polymer micropumps. Lab on A Chip, 2006, 6, 1147.	6.0	98
7	Crystallographic characterization of epitaxial Pb(Zr,Ti)O3 films with different Zr/Ti ratio grown by radio-frequency-magnetron sputtering. Journal of Applied Physics, 2003, 93, 4091-4096.	2.5	93
8	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
9	Micro cell encapsulation and its hydrogel-beads production using microfluidic device. Microsystem Technologies, 2007, 13, 951-958.	2.0	78
10	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
11	Thin-Film Piezoelectric Materials For a Better Energy Harvesting MEMS. Journal of Microelectromechanical Systems, 2012, 21, 451-457.	2.5	68
12	A study of the one-path deep drawing spinning of cups. Journal of Materials Processing Technology, 2005, 159, 397-400.	6.3	65
13	On-Chip Separation and Analysis of RNA and DNA from Single Cells. Analytical Chemistry, 2014, 86, 1953-1957.	6.5	54
14	Characterization of Pb(Zr,Ti)O3 thin films deposited on stainless steel substrates by RF-magnetron sputtering for MEMS applications. Sensors and Actuators A: Physical, 2006, 125, 382-386.	4.1	53
15	Thermodynamic study ofc-axis-oriented epitaxialPb(Zr,Ti)O3thin films. Physical Review B, 2004, 69, .	3.2	52
16	SINC-seq: correlation of transient gene expressions between nucleus and cytoplasm reflects single-cell physiology. Genome Biology, 2018, 19, 66.	8.8	50
17	Development of liquid pumping devices using vibrating microchannel walls. Sensors and Actuators A: Physical, 2009, 152, 211-218.	4.1	49
18	Electroporation through a micro-fabricated orifice and its application to the measurement of cell response to external stimuli. Measurement Science and Technology, 2006, 17, 3127-3133.	2.6	44

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19	Experimental and theoretical investigations of delamination at free edge of interface between piezoelectric thin films on a substrate. International Journal of Solids and Structures, 2005, 42, 1729-1741.	2.7	42
20	Piezoelectric properties of (K,Na)NbO₃ thin films deposited on (001)SrRuO₃/Pt/MgO substrates. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2562-2556.	3.0	42
21	Colocalization of Quantum Dots by Reactive Molecules Carried by Motor Proteins on Polarized Microtubule Arrays. ACS Nano, 2013, 7, 447-455.	14.6	42
22	Engineering of vascularized 3D cell constructs to model cellular interactions through a vascular network. Biomicrofluidics, 2018, 12, 042204.	2.4	42
23	Piezoelectric Properties of Epitaxial NaNbO₃ Thin Films Deposited on (001)SrRuO₃/Pt/MgO Substrates. Japanese Journal of Applied Physics, 2007, 46, 6960.	1.5	41
24	Dielectrophoresisâ€assisted massively parallel cell pairing and fusion based on field constriction created by a microâ€orifice array sheet. Electrophoresis, 2011, 32, 2496-2501.	2.4	41
25	Simple Fabrication of Metal-Based Piezoelectric MEMS by Direct Deposition of $hbox{Pb}(hbox{Zr},) Tj ETQq1 1 0.784314 rgBT /Ove Systems, 2009, 18, 610-615.	2.5	40
26	Nano-particle deposition system (NPDS): Low energy solvent-free dry spray process for direct patterning of metals and ceramics at room temperature. International Journal of Precision Engineering and Manufacturing, 2012, 13, 1107-1112.	2.2	40
27	Low Cell-Matrix Adhesion Reveals Two Subtypes of Human Pluripotent Stem Cells. Stem Cell Reports, 2018, 11, 142-156.	4.8	37
28	Control of molecular shuttles by designing electrical and mechanical properties of microtubules. Science Robotics, 2017, 2, .	17.6	31
29	Single-step replicable microfluidic check valve for rectifying and sensing low Reynolds number flow. Microfluidics and Nanofluidics, 2007, 3, 427-435.	2.2	28
30	High coupling piezoelectric thin films of Pb(Zr,Ti)O3-based ternary perovskite compounds for GHz-range film bulk acoustic resonators. Applied Physics Letters, 2009, 94, .	3.3	28
31	Piezoelectric properties of microfabricated (K,Na)NbO3 thin films. Sensors and Actuators A: Physical, 2011, 171, 223-227.	4.1	28
32	Control of microtubule trajectory within an electric field by altering surface charge density. Scientific Reports, 2015, 5, 7669.	3.3	27
33	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
34	Piezoresistive property of CVD diamond films. Diamond and Related Materials, 1997, 6, 367-373.	3.9	26
35	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
36	Highly polarized single-c-domain single-crystal Pb(Mn,Nb)O₃-PZT thin films. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 6-13.	3.0	24

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37	Separation of long DNA chains using a nonuniform electric field: A numerical study. Physical Review E, 2007, 75, 011902.	2.1	22
38	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
39	Human and Mouse Induced Pluripotent Stem Cells Are Differentially Reprogrammed in Response to Kinase Inhibitors. Stem Cells and Development, 2012, 21, 1287-1298.	2.1	21
40	Development of Micro Actuator using Magnetic Powder and Elastic Material (First) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (Report Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2009, 56, 127-132.	0.2	21
41	Pressure-Mediated Transfection of Murine Spleen and Liver. Human Gene Therapy, 2009, 20, 1157-1167.	2.7	20
42	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
43	Orientation Dependence of Transverse Piezoelectric Properties of Epitaxial BaTiO₃ Films. Japanese Journal of Applied Physics, 2010, 49, 09MA09.	1.5	20
44	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
45	Development of Micro Actuator using Magnetic Powder and Elastic Material (Second) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 4 Japan Society of Powder and Powder Metallurgy, 2009, 56, 133-136.	0.2	20
46	Shape Optimization To Perform Prescribed Air Lubrication Using Genetic Algorithm. Tribology Transactions, 2000, 43, 837-841.	2.0	19
47	Development of a micro biochip integrated traveling wave micropumps and surface plasmon resonance imaging sensors. Microsystem Technologies, 2007, 13, 1391-1396.	2.0	19
48	Composition Dependence of Piezoelectric Properties of Pb(Zr,Ti)O₃Films Prepared by Combinatorial Sputtering. Japanese Journal of Applied Physics, 2012, 51, 09LA12.	1.5	19
49	Mechanical properties of aerogel-like thin films used for MEMS. Journal of Micromechanics and Microengineering, 2004, 14, 681-686.	2.6	18
50	3-D simulation of magnetic particles' behaviour during compaction in a magnetic field. Powder Technology, 2000, 109, 234-240.	4.2	17
51	Simulation of rubber isostatic pressing and shape optimization of rubber mold. International Journal of Mechanical Sciences, 2002, 44, 1603-1623.	6.7	17
52	Fabrication of single crystal PZT thin films on glass substrates. Vacuum, 2007, 81, 571-578.	3.5	17
53	Metal-based piezoelectric microelectromechanical systems scanner composed of Pb(Zr, Ti)O3 thin film on titanium substrate. Microsystem Technologies, 2012, 18, 765-771.	2.0	17
54	Tug-of-war of microtubule filaments at the boundary of a kinesin- and dynein-patterned surface. Scientific Reports, 2014, 4, 5281.	3.3	17

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55	Finite element analysis of the interface phenomena between VCR tape and head. IEEE Transactions on Consumer Electronics, 1991, 37, 224-227.	3.6	16
56	Application of fine-grained doubly oriented electrical steel to IPM synchronous motor. IEEE Transactions on Magnetics, 2005, 41, 4063-4065.	2.1	16
57	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
58	Electrical Lysis and RNA Extraction from Single Cells Fixed by Dithiobis(succinimidyl propionate). Analytical Chemistry, 2018, 90, 12512-12518.	6.5	15
59	3-D electromagnetic field mode analysis using finite element method by edge element. IEEE Transactions on Magnetics, 1990, 26, 1759-1761.	2.1	14
60	Intrinsic crystalline structure of epitaxial Pb(Zr,Ti)O3 thin films. Journal of Applied Physics, 2005, 97, 074101.	2.5	14
61	Simultaneous Observation of Kinesin-Driven Microtubule Motility and Binding of Adenosine Triphosphate Using Linear Zero-Mode Waveguides. ACS Nano, 2018, 12, 11975-11985.	14.6	14
62	Different motilities of microtubules driven by kinesin-1 and kinesin-14 motors patterned on nanopillars. Science Advances, 2020, 6, eaax7413.	10.3	13
63	Extracellular Recordings of Patterned Human Pluripotent Stem Cell-Derived Cardiomyocytes on Aligned Fibers. Stem Cells International, 2016, 2016, 1-9.	2.5	12
64	On-chip microtubule gliding assay for parallel measurement of tau protein species. Lab on A Chip, 2016, 16, 1691-1697.	6.0	12
65	Evaluation of Intrinsic Shear Piezoelectric Coefficientd15ofc-Axis Oriented Pb(Zr,Ti)O3Films. Applied Physics Express, 2009, 2, 091402.	2.4	11
66	Perfusable multi-scale channels fabricated by integration of nanoimprint lighography (NIL) and UV lithography (UVL). Microelectronic Engineering, 2012, 98, 58-63.	2.4	11
67	A perfusable microfluidic device with on-chip total internal reflection fluorescence microscopy (TIRFM) for in situ and real-time monitoring of live cells. Biomedical Microdevices, 2012, 14, 791-797.	2.8	11
68	Behaviour of magnetic particles in compaction. IEEE Transactions on Magnetics, 1997, 33, 1616-1619.	2.1	10
69	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
70	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
71	Fabrication of Magnetically Driven Microvalve Arrays Using a Photosensitive Composite. Magnetochemistry, 2018, 4, 7.	2.4	10
72	High Throughput Cell Electroporation Array Fabricated by Single-Mask Inclined UV Lithography Exposure and Oxygen Plasma Etching. , 2007, , .		9

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73	Open-access and multi-directional electroosmotic flow chip for positioning heterotypic cells. Lab on A Chip, 2011, 11, 1507.	6.0	9
74	Multilayer Thin-Film Capacitor Fabricated by Radio-Frequency Magnetron Sputtering. Japanese Journal of Applied Physics, 2011, 50, 09NA01.	1.5	9
75	Development of low-fluorescence thick photoresist for high-aspect-ratio microstructure in bio-application. Biomicrofluidics, 2015, 9, 022405.	2.4	9
76	Correlation between Cells-on-Chips materials and cell adhesion/proliferation focused on materialâ€™s surface free energy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 565, 188-194.	4.7	9
77	Composition Dependence of Piezoelectric Properties of Pb(Zr,Ti)O₃Films Prepared by Combinatorial Sputtering. Japanese Journal of Applied Physics, 2012, 51, 09LA12.	1.5	9
78	3-D Simulation of Compaction Behavior of Copper Powder Based on Particular Modeling.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1995, 42, 341-346.	0.2	8
79	Numerical Simulation for Fibre Reinforced Rubber. Journal of Computational Science and Technology, 2008, 2, 587-596.	0.4	8
80	Orientation Dependence of Shear Mode Piezoelectric Properties of Epitaxial Pb(Zrx,Ti1-x)O3Thin Films. Japanese Journal of Applied Physics, 2010, 49, 09MA07.	1.5	8
81	Cell culture on MEMS materials in microenvironment limited by a physical condition. Micro and Nano Letters, 2012, 7, 725.	1.3	8
82	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
83	Simulation of head wear and reproduction envelope by the finite element method. Electronics and Communications in Japan, 1992, 75, 91-101.	0.2	7
84	A STUDY OF CONSTITUTIVE BEHAVIOUR OF POWDER ASSEMBLY BY PARTICULATE MODELING. Zairyo/Journal of the Society of Materials Science, Japan, 1995, 44, 163-168.	0.2	7
85	Finite Element Simulation of Compacting Process of Multi-stepped Part.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2000, 47, 1312-1317.	0.2	7
86	Cosserat continuum theory to simulate microscopic rotation of magnetic powder in applied magnetic field. International Journal of Mechanical Sciences, 2000, 42, 129-145.	6.7	7
87	A Study on the Effect of Air on the Dynamic Motion of a MEMS Device and Its Shape Optimization. Tribology Transactions, 2000, 43, 842-846.	2.0	7
88	Micro fabrication of lead-free (K,Na)NbO3 piezoelectric thin films by dry etching. Micro and Nano Letters, 2012, 7, 1223-1225.	1.3	7
89	Transport of microtubules according to the number and spacing of kinesin motors on gold nano-pillars. Nanoscale, 2019, 11, 9879-9887.	5.6	7
90	Distinct Kinetics in Electrophoretic Extraction of Cytoplasmic RNA from Single Cells. Analytical Chemistry, 2020, 92, 1485-1492.	6.5	7

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91	A new scheme for finite element analysis of an interface phenomena of VCR drum, head and tape. IEEE Transactions on Consumer Electronics, 1992, 38, 181-187.	3.6	6
92	3-D particulate modeling for simulation of compaction in magnetic field. IEEE Transactions on Magnetics, 2000, 36, 1519-1522.	2.1	6
93	Self-aligned fabrication process for active membrane made of photosensitive nanocomposite. , 2012, , .		6
94	Subcellular glucose exposure biases the spatial distribution of insulin granules in single pancreatic beta cells. Scientific Reports, 2014, 4, 4123.	3.3	6
95	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
96	Perfusable Vascular Network with a Tissue Model in a Microfluidic Device. Journal of Visualized Experiments, 2018, , .	0.3	6
97	Self-aligned fabrication process for active membrane in magnetically driven micropump using photosensitive composite. Journal of Micromechanics and Microengineering, 2020, 30, 025006.	2.6	6
98	INFLUENCE OF MECHANICAL ANISOTROPY OF MAGNETIC TAPE ON HEAD-TO-TAPE INTERFACE IN VCR. Journal of the Magnetics Society of Japan, 1991, 15, S2_709-714.	0.4	5
99	Electric Field-Induced Strain of PbZrO3Films. Japanese Journal of Applied Physics, 2006, 45, 7258-7261.	1.5	5
100	Development of piezoelectric MEMS deformable mirror. Microsystem Technologies, 2011, 17, 931-935.	2.0	5
101	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
102	Vascular network formation for a long-term spheroid culture by co-culturing endothelial cells and fibroblasts. , 2015, , .		5
103	Adhesion patterning by a novel air-lock technique enables localization and in-situ real-time imaging of reprogramming events in one-to-one electrofused hybrids. Biomicrofluidics, 2016, 10, 054122.	2.4	5
104	On chip purification of hiPSC-derived cardiomyocytes using a fishnet-like microstructure. Biofabrication, 2016, 8, 035017.	7.1	5
105	Cell Culture on Low-Fluorescence and High-Resolution Photoresist. Micromachines, 2020, 11, 571.	2.9	5
106	Theory of stability in a nonlinear resistive network. Applied Physics Letters, 1992, 61, 363-365.	3.3	4
107	Compact modeling approach using genetic algorithms for accurate thermal simulation. Heat Transfer - Asian Research, 2001, 30, 28-39.	2.8	4
108	Fine-grained and cube-textured Si-steel sheet coil by oxide-separator-induced decarburization. IEEE Transactions on Magnetics, 2002, 38, 3198-3200.	2.1	4

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109	Piezoelectric properties of (K, Na)NbO<inf>3</inf> thin films deposited on (001)SrRuO<inf>3</inf>/Pt/MgO substrates. Applications of Ferroelectrics, IEEE International Symposium on, 2007, , .	0.0	4
110	Piezoelectric unimorph miroactuators with X-shaped structure composed of PZT thin films. Microsystem Technologies, 2007, 13, 825-829.	2.0	4
111	Metal-based piezoelectric MEMS scanner mirrors composed of PZT thin films on titanium substrates. , 2011, , .		4
112	Microtubule density and landing rate as parameters to analyze tau protein in the MT-kinesin â€œglidingâ€• assay. Sensors and Actuators B: Chemical, 2017, 238, 954-961.	7.8	4
113	Spatial Patterning of Kinesin-1 and Dynein Motor Proteins in an In Vitro Assay using Aqueous Two-Phase Systems (ATPS). Langmuir, 2019, 35, 13003-13010.	3.5	4
114	Development of incremental deep drawing process. Metals and Materials International, 1998, 4, 404-407.	0.2	4
115	Computer Mechanics. Frictional Phenomena of Magnetic Tape and Magnetic Head on Rotaing Drum with Groove.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1994, 60, 2603-2608.	0.2	3
116	Behaviour of Ferromagnetic Granular in Magnetic Field and Magnetic Characteristics of Compact by Particule Model.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1995, 42, 645-650.	0.2	3
117	Non-circular Particle Behaviour under Compaction in Applied Magnetic Field.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1995, 42, 1019-1026.	0.2	3
118	Development of Atomization Method in Microchannel and Its Basic Characteristics. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2005, 71, 2007-2012.	0.2	3
119	Flow of Magnetic Powder in Stepped Cavity Shape under Applied Magnetic Field. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2005, 52, 458-463.	0.2	3
120	MEMSã•Î¼TASã«ãŠã‹ã‚‹è¡¨é¢ã®å^©ç”¨ã•è¡¨é¢å‡¦ç†. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan,	0.2	3
121	Strong Coupling System for the LV Motion Simulation in a Distributed Simulation Environment. , 2005, 2005, 5511-4.		3
122	The Influence of Activation Time on Contraction Force of Myocardial Tissue: a Simulation Study. , 2006, 2006, 2900-3.		3
123	Modal Analysis for Externally Driven Micropump and Additional Mass Effect of Water. Japanese Journal of Applied Physics, 2008, 47, 5226-5230.	1.5	3
124	Polystyrene microdispenser for blood tests using hydrophobic passive valve. Sensors and Actuators A: Physical, 2011, 169, 274-281.	4.1	3
125	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
126	Effect of Actomyosin Contractility on Lamellipodial Protrusion Dynamics on a Micropatterned Substrate. Cellular and Molecular Bioengineering, 2011, 4, 389-398.	2.1	3

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127	BI-Directional Valve-Less Micropump Using Piezoelectric Micro-Array Actuators. , 2002, , 148-150.		3
128	Magnetic cosserat continuum theory to simulate behavior of magnetic powder during compaction in applied magnetic field. Metals and Materials International, 1998, 4, 354-358.	0.2	3
129	Effect of mechanical anisotropy of flexible media on reproduced output. Journal of Magnetism and Magnetic Materials, 1994, 134, 362-369.	2.3	2
130	Simulation. Simulation of Powder Behaviour during Compaction Based on Continuum and Discrete Modelling.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1998, 8, 260-267.	0.0	2
131	Compound two-dimensional thermo-elastic and thermodynamic analysis for c-axis-oriented epitaxial lead titanate thin films. Vacuum, 2006, 81, 459-465.	3.5	2
132	Ternary perovskite thin films for energy harvesting MEMS. , 2010, , .		2
133	Microfluidic device for high-yield pairing and fusion of stem cells with somatic cells. , 2011, , .		2
134	Single-molecule fluorescence imaging of kinesin using linear zero-mode waveguides. , 2016, , .		2
135	10.1063/1.3422544.1. , 2010, , .		2
136	A Technique for Developing a Precise Thermal Compact Model. , 2002, , .		2
137	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 /Over Information and Precision Equipment IIP/ISPS Joint MIPE, 2009, 2009, 325-326.	0.0	2
138	Finite-Element Analysis of Tape-Head Interface Phenomena of VCR.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1992, 58, 3706-3713.	0.2	1
139	Finite Element Analysis of Tape-Head Interface Phenomena of VCR. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 1995, 38, 609-616.	0.1	1
140	Optimization of thickness distribution of micro-membrane by genetic algorithm. , 1999, , .		1
141	A fundamental study of incremental deep drawing process. , 1999, , .		1
142	Characterization of Transverse Piezoelectric Properties ofc-Axis Oriented PbTiO3Thin Films. Ferroelectrics, 2005, 327, 91-95.	0.6	1
143	Genetic Extended-Fiber Network (GEN) Stretched Over Microbridges Fabricated by Single-Mask Inclined UV Lithography. , 2007, , .		1
144	High-density piezoelectric actuator array for MEMS deformable mirrors composed of PZT thin films. , 2008, , .		1

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145	TISSUE-MIMICKING IN VITRO ANALYSIS SYSTEM to exclusively stimulate single cell and detect its physiological reaction. , 2009, , .		1
146	Real-time monitoring of Ca. , 2011, , .		1
147	Dual Q-dot transport on microtubule array with polarity defined by nanotracks and microtubule motility control. , 2011, , .		1
148	Surface Plasmon Resonance on the Sapphire Single Crystal Substrates with 3D Nano-Textured Surface. Hyomen Kagaku, 2011, 32, 45-51.	0.0	1
149	Improvement of processing reproducibility for a magnetic-driven microstructure made of photosensitive nanocomposite. , 2012, , .		1
150	Integrated blood cell counting device using a hydrophobic surface treatment. Sensors and Actuators B: Chemical, 2012, 171-172, 1321-1326.	7.8	1
151	Localized substance delivery to single cell and 4D imaging of its uptake using a flow channel with a lateral aperture. Microfluidics and Nanofluidics, 2012, 12, 423-429.	2.2	1
152	Linear zero mode waveguides for the study of chemo-mechanical coupling mechanism of kinesin. , 2017, , .		1
153	Development of an electromagnetic micropump with photosensitive magnetic nanocomposite. Nihon AEM Gakkaishi, 2014, 22, 202-207.	0.1	1
154	A study of controlling of dielectric properties of Pb(Zr, Ti)O₃ thin film. IEEJ Transactions on Sensors and Micromachines, 2000, 120, 559-564.	0.1	1
155	Micro liquid mixing using pulsating flow at extremely low Reynolds numbers. The Proceedings of the JSME Annual Meeting, 2004, 2004.2, 67-68.	0.0	1
156	Research of Revised Thermal Design Parameter Optimization With Response Surface Method Application for Fitness Function. , 2004, , .		1
157	Transfer Method of Pb (Zr, Ti)O3 Epitaxial Thin Flms onto Glass Substrates and Evaluation of Their Dielectric Properies. Shinku/Journal of the Vacuum Society of Japan, 2005, 48, 133-135.	0.2	1
158	Influence of Elasto-hydrodynamic Lubrication on Recording Characteristics in VTR. Journal of the Magnetics Society of Japan, 1994, 18, S1_537-540.	0.4	1
159	Piezoelectric Property of CVD ZnO Film for Pressure Micro Sensor. , 1999, , 347-355.		1
160	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
161	Analysis of Tape Floating Behaviour in VCR using Averaged Thickness Method.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1993, 59, 295-300.	0.2	0
162	Computer Mechanics. Analysis of Tape Floating Characteristics of VCR Considering Fluid Viscosity and Contact Friction.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1994, 60, 2597-2602.	0.2	0

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163	A study of diffusion in layered thin film [MEMS]. , 0, , .		0
164	Analysis of Particle Alignment of Magnetic Powder by Magneto-Cosserat Theory during Compaction.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1998, 45, 859-865.	0.2	0
165	Pressure Micro Sensor of p-type CVD Diamond Film. , 1999, , 339-345.		0
166	A study of the effect of the fabrication process on diffusion in a layered thin film. Microsystem Technologies, 1999, 5, 169-172.	2.0	0
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