

Hidetoshi Takahashi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2450057/publications.pdf>

Version: 2024-02-01

409
papers

5,161
citations

147566

31
h-index

143772

57
g-index

409
all docs

409
docs citations

409
times ranked

4495
citing authors

#	ARTICLE	IF	CITATIONS
1	New device with force sensors for laparoscopic liver resection – investigation of grip force and histological damage. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2022, 31, 28-33.	0.6	5
2	Compact Sphere-Shaped Airflow Vector Sensor Based on MEMS Differential Pressure Sensors. <i>Sensors</i> , 2022, 22, 1087.	2.1	6
3	Displacement Visualization at Flexible Interface: A Coordinate Correction Scheme Applicable to High-Accuracy Pressure Distribution Mapping. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-8.	2.4	0
4	Sensitivity Enhancement of An Acoustic Sensor via Parallel Helmholtz Resonators. , 2022, , .		1
5	Needle Type Pressure Sensor with Parylene Membrane and Silicone Oil Inside. , 2022, , .		0
6	Tunable Planar Acoustic Notch Filter Utilizing Pneumatic Deforming Helmholtz Resonator Array. , 2022, , .		2
7	Frequency Characteristics of Pulse Wave Sensor Using MEMS Piezoresistive Cantilever Element. <i>Micromachines</i> , 2022, 13, 645.	1.4	4
8	6-Axis Stress Tensor Sensor Using Multifaceted Silicon Piezoresistors. <i>Micromachines</i> , 2021, 12, 279.	1.4	0
9	Biaxial Angular Acceleration Sensor with Rotational-Symmetric Spiral Channels and MEMS Piezoresistive Cantilevers. <i>Micromachines</i> , 2021, 12, 507.	1.4	9
10	Seabird Biologging System with Compact Waterproof Airflow Sensor. <i>Journal of Robotics and Mechatronics</i> , 2021, 33, 466-474.	0.5	5
11	Isometric contraction force measurement of hiPSC-CMs on a movable plate with a feedback-controlled MEMS cantilever probe. <i>Measurement Science and Technology</i> , 2021, 32, 115118.	1.4	1
12	Acoustic notch filtering earmuff utilizing Helmholtz resonator arrays. <i>PLoS ONE</i> , 2021, 16, e0258842.	1.1	6
13	Force Plate with Simple Mechanical Springs and Separated Noncontact Sensor Elements. <i>Sensors</i> , 2021, 21, 7092.	2.1	3
14	Compact Pitot-static-tube-based waterflow sensor for biologging of marine animals. , 2021, , .		2
15	A black gauze cap-shaped bistable energy harvester with a movable design for broadening frequency bandwidth. <i>Smart Materials and Structures</i> , 2020, 29, 025015.	1.8	9
16	Self-focusing 3D lithography with varying refractive index polyethylene glycol diacrylate. <i>Applied Physics Express</i> , 2020, 13, 076503.	1.1	10
17	MEMS triaxial gyroscope using surface and sidewall doping piezoresistors. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 105012.	1.5	5
18	3D Hydrogel Manufacturing Employing Self-Focusing During Photo-Curing Process. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	An angular accelerometer with high sensitivity and low crosstalk utilizing a piezoresistive cantilever and spiral liquid channels. IEEE Sensors Journal, 2020, , 1-1.	2.4	4
20	Densely Arrayed Active Antennas Embedded in Vertical Nanoholes for Backside-illuminated Silicon-Based Broadband Infrared Photodetection. Advanced Materials Interfaces, 2020, 7, 2001039.	1.9	6
21	Multidirectional UV lithography via inclined/rotated mirrors for liquid materials. Applied Physics Express, 2020, 13, 076502.	1.1	4
22	Time response characteristics of a highly sensitive barometric pressure change sensor based on MEMS piezoresistive cantilevers. Japanese Journal of Applied Physics, 2020, 59, 070906.	0.8	14
23	Micro Water Flow Measurement Using a Temperature-Compensated MEMS Piezoresistive Cantilever. Micromachines, 2020, 11, 647.	1.4	6
24	MEMS-Based Pulse Wave Sensor Utilizing a Piezoresistive Cantilever. Sensors, 2020, 20, 1052.	2.1	28
25	Reconfigurable Surface Plasmon Resonance Photodetector with a MEMS Deformable Cantilever. ACS Photonics, 2020, 7, 673-679.	3.2	24
26	A Design Deviation Decreasing Methodology: Verified With a Piezoelectric Current Sensor. IEEE Sensors Journal, 2019, 19, 11120-11128.	2.4	4
27	Internal Resonance Phenomena in Coupled Ductile Cantilevers With Triple Frequency Ratio-Part II: A Mass Sensitivity Amplification Schemes. IEEE Sensors Journal, 2019, 19, 5484-5492.	2.4	18
28	Highly Sensitive Pulse Wave Sensor with a Piezoresistive Cantilever Inside an Air Chamber. , 2019, , .		2
29	A Piezoresistive Vibration Sensor with Liquid on Corrugated Membrane. , 2019, , .		1
30	Current Detection Type SPR Sensor using AU Grating and Backside Illumination. , 2019, , .		0
31	Monitoring Volcanic Activity with High Sensitive Infrasound Sensor Using a Piezoresistive Cantilever. , 2019, , .		5
32	In-Plane Gyroscope Using a Piezoresistive Beams with Sidewall Doping. , 2019, , .		0
33	Underwater Pitot Tube for Swimming Animals. , 2019, , .		0
34	Evaluation of Ground Slipperiness During Collision Using MEMS Local Slip Sensor. , 2019, , .		2
35	Highly Sensitive Angular Accelerometer Utilizing Piezoresistive Cantilever and Spiral Liquid Channel. , 2019, , .		2
36	An MRI-Compatible Force Sensor with Enclosed Air Using Pressure Transmission. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
37	The Measurement of the Vibration of Human iPS Cell-Derived Cardiomyocytes' Contraction. , 2019, , .		0
38	Micrometer-Sized Suction Cup Array with Strong Adhesion to Wet Surface. , 2019, , .		2
39	Maximum Pressure Caused by Droplet Impact is Dependent on the Droplet Size. , 2019, , .		3
40	Analysis of the Vertical Driving Performance of Multiple Connected Pipe-Climbing Microrobots with Magnetic Wheels. Micromachines, 2019, 10, 524.	1.4	2
41	Slip and Magnetic Attraction Effects in a Microrobot with Magnetic-Wheels and Skid-Steering. Micromachines, 2019, 10, 379.	1.4	3
42	Internal Resonance Phenomena in Coupled Ductile Cantilevers With Triple Frequency Ratio—Part I: Experimental Observations. IEEE Sensors Journal, 2019, 19, 5475-5483.	2.4	20
43	A MEMS-based measurement system for evaluating the force-length relationship of human induced pluripotent stem cell-derived cardiomyocytes adhered on a substrate. Journal of Micromechanics and Microengineering, 2019, 29, 055003.	1.5	12
44	Infrared Photodetector with Copper Resonator in Silicon Nanohole Array. , 2019, , .		0
45	Development of a single-chip elasticity sensor using MEMS-based piezoresistive cantilevers with different tactile properties. Sensors and Actuators A: Physical, 2019, 285, 362-368.	2.0	13
46	Highly sensitive and low-crosstalk angular acceleration sensor using mirror-symmetric liquid ring channels and MEMS piezoresistive cantilevers. Sensors and Actuators A: Physical, 2019, 287, 39-47.	2.0	19
47	Electrical detection SPR sensor with grating coupled backside illumination. Optics Express, 2019, 27, 17763.	1.7	19
48	Spring constant measurement using a MEMS force and displacement sensor utilizing paralleled piezoresistive cantilevers. Journal of Micromechanics and Microengineering, 2018, 28, 045013.	1.5	5
49	Cellular dynamics of bovine aortic smooth muscle cells measured using MEMS force sensors. Journal Physics D: Applied Physics, 2018, 51, 145401.	1.3	7
50	Electrically detectable surface plasmon resonance sensor by combining a gold grating and a silicon photodiode. Applied Physics Express, 2018, 11, 022001.	1.1	11
51	Waterproof pitot tube with high sensitive differential pressure sensor and nano-hole array. , 2018, , .		2
52	Reducing the contact time of droplet impact by active control of substrate motion. , 2018, , .		4
53	Elasticity sensor using different tactile properties on one chip. , 2018, , .		3
54	Ground effect measurement of butterfly take-off. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
55	Mechanomyogram measurement by lead zirconate titanate-based acoustic sensor. Japanese Journal of Applied Physics, 2018, 57, 11UD09.	0.8	2
56	Waterproof airflow sensor for seabird bio-logging using a highly sensitive differential pressure sensor and nano-hole array. Sensors and Actuators A: Physical, 2018, 281, 243-249.	2.0	33
57	Experimental Study of the Aerodynamic Interaction between the Forewing and Hindwing of a Beetle-Type Ornithopter. Aerospace, 2018, 5, 83.	1.1	11
58	Miniaturization of a grating-based SPR type near-infrared spectrometer by using vibration of a MEMS cantilever. , 2018, , .		0
59	High sensitive and large area force plate for ground reaction force measurement of ant running. , 2018, , .		3
60	Compact Surface Plasmon Resonance System with Au/Si Schottky Barrier. Sensors, 2018, 18, 399.	2.1	14
61	Load dependency measurement of IPS cell-derived cardiomyocytes' contraction. , 2018, , .		1
62	Development of a light source with a uniform intensity reinforced by a checkerboard half-mirror positioned within inverse L-shaped UV-LED arrays. Applied Physics Express, 2018, 11, 066701.	1.1	2
63	MEMS Sensor Devices with a Piezo-Resistive Cantilever. International Journal of Automation Technology, 2018, 12, 4-14.	0.5	2
64	Velocity Measurement using MEMS Ultrasonic Sensor for Non-invasive Blood Pressure Measurement. IEEJ Transactions on Sensors and Micromachines, 2018, 138, 54-58.	0.0	1
65	Analysis of THz Response of Frame Structures for Achieving Thin-film-type Metamaterials. IEEJ Transactions on Sensors and Micromachines, 2018, 138, 281-286.	0.0	0
66	Jumping force of coalescing droplets on a superhydrophobic surface. , 2017, , .		3
67	MEMS 6-axis force-torque sensor attached to the tip of grasping forceps for identification of tumor in thoracoscopic surgery. , 2017, , .		11
68	Evaluation of ground slippery condition during walk of bipedal robot using MEMS slip sensor. , 2017, , .		7
69	MEMS force and displacement sensor for measuring spring constant of hydrogel microparticles. , 2017, , .		4
70	A multi-axis piezoresistive MEMS sensor for acoustic emission. , 2017, , .		0
71	A wall shear stress sensor using a pair of sidewall doped cantilevers. Journal of Micromechanics and Microengineering, 2017, 27, 075017.	1.5	5
72	MEMS piezoresistive cantilever for the direct measurement of cardiomyocyte contractile force. Journal of Micromechanics and Microengineering, 2017, 27, 105005.	1.5	22

#	ARTICLE	IF	CITATIONS
73	MEMS-based pressure sensor with a superoleophobic membrane for measuring droplet vibration. , 2017, , .		9
74	Uniform areal-distribution of UV intensity by synchronizing signal-waveforms and position of a UV-LED array. Applied Physics Letters, 2017, 111, 263503.	1.5	1
75	Scalable Fabrication of PEGDA Microneedles Using UV Exposure via a Rotating Prism. Journal of Microelectromechanical Systems, 2017, 26, 990-992.	1.7	14
76	Maximum force capacity of legs of a fruit fly during landing motion. , 2017, , .		4
77	Cantilever array for measuring traction forces of cells in a confined space. , 2017, , .		0
78	Mems force sensor array for evaluating the contractility of IPS cell-derived cardiomyocytes. , 2017, , .		0
79	A MEMS slip sensor: Estimations of triaxial force and coefficient of static friction for prediction of a slip. , 2017, , .		7
80	Liquid-on-beam structure for gas sensing. , 2017, , .		0
81	Ornithopter with a MEMS Differential Pressure Sensor. Journal of the Robotics Society of Japan, 2017, 35, 660-663.	0.0	0
82	Three-Axis Ground Reaction Force Distribution during Straight Walking. Sensors, 2017, 17, 2431.	2.1	7
83	Elastic Wave Measurement Using a MEMS AE Sensor. Applied Sciences (Switzerland), 2017, 7, 737.	1.3	9
84	How merging droplets jump off a superhydrophobic surface: Measurements and model. Physical Review Fluids, 2017, 2, .	1.0	52
85	Upcoming Society through Convergence of IT and Robotics. Journal of the Institute of Electrical Engineers of Japan, 2017, 137, 85-88.	0.0	0
86	The Effect of the Phase Angle between the Forewing and Hindwing on the Aerodynamic Performance of a Dragonfly-Type Ornithopter. Aerospace, 2016, 3, 4.	1.1	14
87	A Tactile Sensor Using Piezoresistive Beams for Detection of the Coefficient of Static Friction. Sensors, 2016, 16, 718.	2.1	30
88	NIR spectrometer using a Schottky photodetector enhanced by grating-based SPR. Optics Express, 2016, 24, 25797.	1.7	30
89	Compact coaxial thermal and color imaging system with silicon-glass hybrid lens. , 2016, , .		0
90	Silicon based near infrared photodetector using self-assembled organic crystalline nano-pillars. Applied Physics Letters, 2016, 108, .	1.5	37

#	ARTICLE	IF	CITATIONS
91	Evaluation of insect locomotion using MEMS piezoresistive force sensors. , 2016, , .		0
92	CFRP monitoring method with piezoresistive beams. , 2016, , .		0
93	Measurement of jumping force of a fruit fly using a mesa structured force plate. , 2016, , .		8
94	Pressure distribution on the contact area during the impact of a droplet on a textured surface. , 2016, , .		7
95	Detection of high-frequency component of mechanomyogram. , 2016, , .		4
96	Micro pillars with thin hydrophobic layer formed on the side walls to prevent cell protrusion toward side wall. , 2016, , .		1
97	Si process compatible near-infrared photodetector using AU/Si nano-pillar array. , 2016, , .		11
98	Measuring the vibration of cells subjected to ultrasound using a MEMS-based force sensor array. , 2016, , .		2
99	Piezoresistive cantilever integrated microfluidic channel for measuring cellular properties. , 2016, , .		1
100	Processing of graphene into a cantilever beam structure using a focused ion beam. Micro and Nano Letters, 2016, 11, 670-674.	0.6	4
101	Depinning-Induced Capillary Wave during the Sliding of a Droplet on a Textured Surface. Langmuir, 2016, 32, 9523-9529.	1.6	13
102	High-sensitivity microelectromechanical systems-based tri-axis force sensor for monitoring cellular traction force. Micro and Nano Letters, 2016, 11, 563-567.	0.6	4
103	Rigid two-axis MEMS force plate for measuring cellular traction force. Journal of Micromechanics and Microengineering, 2016, 26, 105006.	1.5	8
104	Scalable fabrication of microneedle arrays via spatially controlled UV exposure. Microsystems and Nanoengineering, 2016, 2, 16049.	3.4	28
105	Measurement of vacuum pressure with cantilever-based differential pressure sensor utilizing vapor pressure and narrow gap of cantilever. , 2016, , .		1
106	Sensitivity enhancement of a cantilever-type airflow shear stress sensor via surface roughness modification. , 2016, , .		0
107	The sound of a sliding droplet. , 2016, , .		0
108	A tactile sensor for simultaneous measurement of applied forces and friction coefficient. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
109	Cantilever with 10-fold tunable spring constant using Lorentz force. , 2016, , .		1
110	Wearable sweat monitoring sensor based on Ionic Liquid Gel. , 2016, , .		1
111	Wood monitoring using MEMS acoustic sensor. , 2016, , .		2
112	Chiral Switchable THz Metamaterial with MEMS Reconfigurable Spirals. , 2016, , .		0
113	Underwater Varifocal Acoustic Mirror. IEEJ Transactions on Sensors and Micromachines, 2016, 136, 390-397.	0.0	0
114	Characteristic evaluation of a bristled wing using mechanical models of a thrips wings with MEMS piezoresistive cantilevers. Journal of Biomechanical Science and Engineering, 2015, 10, 14-00233-14-00233.	0.1	9
115	Insects have hairy eyes that reduce particle deposition. European Physical Journal: Special Topics, 2015, 224, 3361-3377.	1.2	7
116	Out-of-plane actuation with a sub-micron initial gap for reconfigurable terahertz micro-electro-mechanical systems metamaterials. Optics Express, 2015, 23, 26243.	1.7	19
117	Measurement of surface acoustic waves propagation using a piezoresistive cantilever array. , 2015, , .		2
118	A viscometer based on vibration of droplets on a piezoresistive cantilever array. , 2015, , .		6
119	6-Axis force/torque sensor for spike pins of sports shoes. , 2015, , .		2
120	3D structural foramation utilizing glass transition of a Parylene film. , 2015, , .		0
121	Impact-induced hardening package for tactile sensors using dilatant fluid. , 2015, , .		0
122	Measuring the propagating teeth vibration of human chewing. , 2015, , .		0
123	Pulse wave measurement in human using piezoresistive cantilever on liquid. , 2015, , .		6
124	6-axis force-torque sensor chip composed of 16 piezoresistive beams. , 2015, , .		6
125	Ionic-Gel-coated fabric as flexible humidity sensor. , 2015, , .		3
126	Sound focusing in liquid using a varifocal acoustic mirror. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
127	Micropillar type three-axis force sensor for measurement of cellular force. , 2015, , .		2
128	Quad-axial piezoresistive force sensor probe by four sensing elements with sidewall doping method. , 2015, , .		2
129	Flow speed measurement with Doppler effect using ultrasonic receiver for small-sized smart catheter. , 2015, , .		3
130	Airflow shear stress sensor using side-wall doped piezoresistive plate. , 2015, , .		2
131	Viscosity measurement based on the tapping-induced free vibration of sessile droplets using MEMS-based piezoresistive cantilevers. Lab on A Chip, 2015, 15, 3670-3676.	3.1	41
132	Microparticles in a silicon film created using mist-jet technology to expand the absorption wavelength. Sensors and Actuators A: Physical, 2015, 232, 190-194.	2.0	0
133	Dynamic performance analysis of a micro cantilever embedded in elastomer. Journal of Micromechanics and Microengineering, 2015, 25, 075006.	1.5	7
134	Fusion of cantilever and diaphragm pressure sensors according to frequency characteristics. , 2015, , .		4
135	A cantilever with comb structure modeled by a bristled wing of thrips for slight air leak. , 2015, , .		3
136	Frequency-Tunable Microstrip Antenna With Liquid Actuator Using Gradually Widened Transmission Line. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 551-555.	2.4	9
137	Acoustic emission sensor using liquid-on-beam structure. , 2015, , .		5
138	Enantiomeric switching of chiral metamaterial for terahertz polarization modulation employing vertically deformable MEMS spirals. Nature Communications, 2015, 6, 8422.	5.8	224
139	Two-axis MEMS-based force sensor for measuring the interaction forces during the sliding of a droplet on a micropillar array. Sensors and Actuators A: Physical, 2015, 231, 35-43.	2.0	17
140	Moisture sensor based on heat transfer possessing insusceptibility to coating materials on skin. Sensors and Actuators A: Physical, 2015, 235, 265-272.	2.0	1
141	MEMS Heart Sound Sensor. IEIJ Transactions on Sensors and Micromachines, 2015, 135, 199-203.	0.0	1
142	J0260103 Measurement of flight force of a fruit fly using a MEMS multi axis force sensor. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J0260103-_J0260103-.	0.0	0
143	MEMS two-axis force plate array used to measure the ground reaction forces during the running motion of an ant. Journal of Micromechanics and Microengineering, 2014, 24, 065014.	1.5	27
144	A smart, intermittent driven particle sensor with an airflow change trigger using a lead zirconate titanate (PZT) cantilever. Measurement Science and Technology, 2014, 25, 025103.	1.4	2

#	ARTICLE	IF	CITATIONS
145	Traction force of smooth muscle cell during growth on a rigid substrate. , 2014, , .		4
146	Parallel Helmholtz resonators for a planar acoustic notch filter. Applied Physics Letters, 2014, 105, .	1.5	11
147	Long stroke out-of-plane actuator using combination of electrostatic and pneumatic forces. , 2014, , .		0
148	Micro liquid-based thermo-acoustic transmitter for emitting ultrasound in liquid medium. , 2014, , .		0
149	Interaction forces during the sliding of a water droplet on a textured surface. , 2014, , .		4
150	Tunable metamaterials by controlling sub-micron gap for the THz range. , 2014, , .		2
151	Mechanical properties of few layer graphene cantilever. , 2014, , .		10
152	Calorimetric device for non-destructive measurement of the thermal diffusivity dependency by phase delay. , 2014, , .		0
153	Focal length measurement of a varifocal liquid lens with capacitance detection. Applied Physics B: Lasers and Optics, 2014, 115, 69-76.	1.1	4
154	Ionic liquid-gated graphene FET array with enhanced selectivity for electronic nose. , 2014, , .		4
155	Multi-axis force sensor with dynamic range up to ultrasonic. , 2014, , .		4
156	A near infrared schottky photodetector using surface plasmon resonance of Au grating on a tilting mirror for spectroscopy. , 2014, , .		0
157	Measuring flow velocity of swallowed liquid in the human pharynx by tongue pressure sensor and swallowing sound sensor. , 2014, , .		0
158	Measurement of mechanomyogram. , 2014, , .		8
159	Ammonia gas sensing using a graphene field-effect transistor gated by ionic liquid. Sensors and Actuators B: Chemical, 2014, 195, 15-21.	4.0	59
160	Near infrared photo-detector using self-assembled formation of organic crystalline nanopillar arrays. , 2014, , .		2
161	High-sensitivity triaxial tactile sensor with elastic microstructures pressing on piezoresistive cantilevers. Sensors and Actuators A: Physical, 2014, 215, 167-175.	2.0	79
162	Stretchable tri-axis force sensor using conductive liquid. Sensors and Actuators A: Physical, 2014, 215, 123-129.	2.0	33

#	ARTICLE	IF	CITATIONS
163	Formation of electrically charged microdroplets in a nonpolar solvent and assembly into patterns on charged substrates. <i>Sensors and Actuators A: Physical</i> , 2014, 215, 115-122.	2.0	0
164	Measuring differential pressures with multiple MEMS sensors during takeoff of an insect-like ornithopter. <i>Journal of Biomechanical Science and Engineering</i> , 2014, 9, JBSE0004-JBSE0004.	0.1	5
165	J0220203 Ground Reaction Force of Ants in Locomotion on Level Ground, Vertical Wall and Ceiling. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2014, 2014, _J0220203-_J0220203-.	0.0	0
166	Ratiometric Optical Temperature Sensor Using Two Fluorescent Dyes Dissolved in an Ionic Liquid Encapsulated by Parylene Film. <i>Sensors</i> , 2013, 13, 4138-4145.	2.1	25
167	Spiral metamaterial for active tuning of optical activity. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	61
168	Anterior and posterior tongue activity sensor based on triaxial force sensor. , 2013, , .		2
169	Batch fabrication of a double-layer metamaterial resonator using scalloping structures. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 085006.	1.5	4
170	A barometric pressure sensor based on the air-gap scale effect in a cantilever. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	22
171	A piezoelectric cantilever with a Helmholtz resonator as a sound pressure sensor. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 114003.	1.5	3
172	Simultaneous detection of particles and airflow with a MEMS piezoresistive cantilever. <i>Measurement Science and Technology</i> , 2013, 24, 025107.	1.4	8
173	Wavelength-selective silicon near infrared photodetector using surface plasmon resonance enhancement. , 2013, , .		0
174	Quantitative evaluation of the influence of dopaminergic neuron on flapping locomotion. , 2013, , .		3
175	Effectiveness of bristled wing of thrips. , 2013, , .		5
176	High sensitive 3D tactile sensor with the structure of elastic pyramids on piezoresistive cantilevers. , 2013, , .		9
177	Micro force plate array for measurement of ground reaction force of insect running. , 2013, , .		1
178	Micropartilces in silicon film using mist-jet technology for a photodetector. , 2013, , .		1
179	Highly sensitive pressure sensor using a gold-coated elastic pyramid array pressing on a resistor. , 2013, , .		1
180	Stretchable force sensor array using conductive liquid. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
181	3D Lorentz force magnetic sensor using ultra-thin piezoresistive cantilevers. , 2013, , .		1
182	Spiral metamaterial for tunable circular dichroism. , 2013, , .		1
183	A piezoresistive cellular traction force sensor. , 2013, , .		4
184	Regional 3-axis plantar forces during stair ascent. , 2013, , .		1
185	Patterning of micro-droplets in nonpolar solvent by electro-emulsification and electrophoresis. , 2013, , .		1
186	A wake-up switch using a piezoelectric differential pressure sensor. , 2013, , .		4
187	Double-layer wire grid polarizer for improving extinction ratio. , 2013, , .		1
188	AlN cantilever for differential pressure sensor. , 2013, , .		2
189	A triaxial tactile sensor without crosstalk using pairs of piezoresistive beams with sidewall doping. Sensors and Actuators A: Physical, 2013, 199, 43-48.	2.0	87
190	A photoresponse-compensated parallel piezoresistive cantilever for cellular force measurements. Journal of Micromechanics and Microengineering, 2013, 23, 045015.	1.5	7
191	A piezoelectric flow sensor for use as a wake-up switch for a wireless sensor network node. Mechatronics, 2013, 23, 893-897.	2.0	13
192	A thin electrowetting controlled optical system with pan/tilt and variable focus functions. Sensors and Actuators A: Physical, 2013, 194, 112-118.	2.0	11
193	A graphene FET gas sensor gated by ionic liquid. , 2013, , .		14
194	Direct physical exfoliation of few-layer graphene from graphite grown on a nickel foil using polydimethylsiloxane with tunable elasticity and adhesion. Nanotechnology, 2013, 24, 205302.	1.3	13
195	An AlN cantilever for a wake-up switch triggered by air pressure change. Journal of Physics: Conference Series, 2013, 476, 012122.	0.3	3
196	Measurement method for light transmittance of layered metamaterials. Optics Letters, 2013, 38, 1811.	1.7	3
197	Stretchable cell culture platforms using micropneumatic actuators. Micro and Nano Letters, 2013, 8, 865-868.	0.6	6
198	Design of a piezoresistive triaxial force sensor probe using the sidewall doping method. Journal of Micromechanics and Microengineering, 2013, 23, 035027.	1.5	19

#	ARTICLE	IF	CITATIONS
199	Differential pressure distribution measurement for the development of insect-sized wings. Measurement Science and Technology, 2013, 24, 055304.	1.4	10
200	A hydrophone using liquid to bridge the gap of a piezo-resistive cantilever. , 2013, , .		6
201	Carbon dioxide gas sensor with ionic gel. , 2013, , .		10
202	A silicon-glass hybrid lens for simultaneous color-and-thermal imaging. , 2013, , .		4
203	Measurement method of light transmittance of layered metal-dielectric metamaterial. , 2013, , .		0
204	Dynamic response of tactile sensor applying cantilever in elastomer. , 2013, , .		1
205	Multi-axial confocal distance sensor using varifocal liquid lens. , 2013, , .		6
206	3-Axis fingertip force during playing the string instrument. , 2013, , .		3
207	A piezoelectric cantilever-type differential pressure sensor for a low standby power trigger switch. Journal of Micromechanics and Microengineering, 2013, 23, 125023.	1.5	8
208	Far-Infrared Fresnel Lens for Thermal Imaging. IEEJ Transactions on Sensors and Micromachines, 2013, 133, 274-279.	0.0	0
209	Single-Pulse Ultrasonic Proximal Distance Sensor with Thermoacoustic Transmitter. IEEJ Transactions on Sensors and Micromachines, 2013, 133, 326-331.	0.0	0
210	Approach to the Sports Skill-up with Measurement by MEMS Sensors. Journal of the Institute of Electrical Engineers of Japan, 2013, 133, 360-363.	0.0	0
211	Double-layer split-ring-resonator array fabricated using scalloping structure. , 2012, , .		0
212	Low-power-consumption CO ₂ gas sensor using ionic liquids for green energy management. , 2012, , .		4
213	Differential pressure distribution measurement with an MEMS sensor on a free-flying butterfly wing. Bioinspiration and Biomimetics, 2012, 7, 036020.	1.5	17
214	Flexible tactile sensor for shear stress measurement using transferred sub-Åµm-thick Si piezoresistive cantilevers. Journal of Micromechanics and Microengineering, 2012, 22, 115025.	1.5	25
215	Home-Assistant Robot for an Aging Society. Proceedings of the IEEE, 2012, 100, 2429-2441.	16.4	120
216	Measurement of the pressure distribution during the onset of slip. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
217	MEMS microphone with a micro Helmholtz resonator. Journal of Micromechanics and Microengineering, 2012, 22, 085019.	1.5	11
218	Differential pressure measurement of an insect wing using a MEMS sensor. , 2012, , .		1
219	Differential pressure sensor using a piezoresistive cantilever. Journal of Micromechanics and Microengineering, 2012, 22, 055015.	1.5	112
220	Electrochemical impedance measurement of a carbon nanotube probe electrode. Nanotechnology, 2012, 23, 485302.	1.3	3
221	Triaxial force sensor for lingual motion sensing. , 2012, , .		3
222	Triaxial force sensor with strain concentration notch beam for measurement of insect flight force. , 2012, , .		5
223	3D flexible tactile sensor using electromagnetic induction coils. , 2012, , .		33
224	Shear force detector using piezo-resistive beams with sidewall-doping. , 2012, , .		3
225	Shear force sensor using a cantilever with liquid-embedded hinges. , 2012, , .		1
226	Carbon dioxide detection by surface plasmon resonance with ionic liquid. , 2012, , .		3
227	Functionalized micro bead with liquid-core Parylene-shell structure. , 2012, , .		1
228	Three dimensional microfluidic design with spincoated micrometer-thin elastomer multilayer. , 2012, , .		0
229	Optical measurement of directional strain by scattering from nano-disk pairs aligned on an elastomer. Nanotechnology, 2012, 23, 315201.	1.3	8
230	CNT-FET gas sensor using a functionalized ionic liquid as gate. , 2012, , .		9
231	Mechanical impulses can control metaphase progression in a mammalian cell. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7320-7325.	3.3	36
232	Micro mirror arrays for improved sensitivity of thermopile infrared sensors. , 2011, , .		6
233	Micro bead type temperature sensor with ratiometric fluorescence dyes encapsulated by Parylene. , 2011, , .		1
234	Direct physical exfoliation and transfer of graphene grown via ethanol chemical vapor deposition. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
235	Porous Parylene and effects of liquid on Parylene films deposited on liquid. , 2011, , .		4
236	A gas sensor based on viscosity change of ionic liquid. , 2011, , .		1
237	3D airflow velocity vector sensor. , 2011, , .		10
238	Micro suction cup array for wet/dry adhesion. , 2011, , .		9
239	The photo charge of a bacterioRhodopsin electrochemical cells measured by a charge amplifier. IEICE Electronics Express, 2011, 8, 505-511.	0.3	5
240	Barometric pressure change measurement. , 2011, , .		3
241	Differential pressure distribution measurement of a free-flying butterfly wing. , 2011, , .		6
242	Nanoprobe electrodes cut by physical stretch of Parylene-insulated carbon nanotube bridges. , 2011, , .		1
243	Microprism using capillary alignment. Journal of Micromechanics and Microengineering, 2011, 21, 085009.	1.5	5
244	Si nano-pillars for measuring traction force exerted by filopodia. , 2011, , .		0
245	SPR photo diode detector using transportation phenomenon of photon and electron coupling. , 2011, , .		2
246	Micro-patterning of a conductive polymer and an insulation polymer using the Parylene lift-off method for electrochromic displays. Journal of Micromechanics and Microengineering, 2011, 21, 075021.	1.5	22
247	‘Pickup and place’ integration method of bridging carbon nanotubes by stamping transfer. , 2011, , .		0
248	Optial measurement of strain using scattering from nanoparticle pairs on elastomer. , 2011, , .		0
249	Photosensitive protein patterning with electrophoretic deposition. IEICE Electronics Express, 2010, 7, 779-784.	0.3	3
250	Fabrication and demonstration of an electrochromic voxel array for a volume display prototype. IEICE Electronics Express, 2010, 7, 920-924.	0.3	0
251	Flight Mode Change with Wing Phase Relationship of Dragonfly-Type Flight(Fluids Engineering). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2010, 76, 1199-1205.	0.2	0
252	Planar near-infrared surface plasmon resonance sensor with Si prism and grating coupler. Sensors and Actuators B: Chemical, 2010, 144, 295-300.	4.0	7

#	ARTICLE	IF	CITATIONS
253	Transparent conductive-polymer strain sensors for touch input sheets of flexible displays. Journal of Micromechanics and Microengineering, 2010, 20, 075017.	1.5	58
254	Tensile Film Stress of Parylene Deposited on Liquid. Langmuir, 2010, 26, 18771-18775.	1.6	28
255	Differential pressure measurement using a free-flying insect-like ornithopter with an MEMS sensor. Bioinspiration and Biomimetics, 2010, 5, 036005.	1.5	26
256	Forward flight of swallowtail butterfly with simple flapping motion. Bioinspiration and Biomimetics, 2010, 5, 039801.	1.5	0
257	Stretchable liquid tactile sensor for robot-joints. , 2010, , .		31
258	Measurement of differential pressure on a butterfly wing. , 2010, , .		11
259	Forward flight of swallowtail butterfly with simple flapping motion. Bioinspiration and Biomimetics, 2010, 5, 026003.	1.5	66
260	Skin-type tactile sensor using standing piezoresistive cantilever for micro structure detection. , 2010, , .		5
261	Liquid-Phase Packaging of a Glucose Oxidase Solution with Parylene Direct Encapsulation and an Ultraviolet Curing Adhesive Cover for Glucose Sensors. Sensors, 2010, 10, 5888-5898.	2.1	10
262	Long-range surface plasmon resonance sensor with liquid micro-channels to maintain the symmetry condition of the refractive index. Journal of Micromechanics and Microengineering, 2010, 20, 125005.	1.5	11
263	Three-dimensional silicon fabrication using microloading effects with a rectangular aperture mask. Journal of Micromechanics and Microengineering, 2010, 20, 075022.	1.5	5
264	A wide wavelength range optical switch using a flexible photonic crystal waveguide and silicon rods. Journal of Micromechanics and Microengineering, 2010, 20, 075009.	1.5	5
265	Tunable gold-coated polymer gratings for surface plasmon resonance coupling and scanning. Journal of Micromechanics and Microengineering, 2010, 20, 085032.	1.5	12
266	Capillary Torque Caused by a Liquid Droplet Sandwiched between Two Plates. Langmuir, 2010, 26, 2497-2504.	1.6	22
267	Thermal-based skin moisture device with contact pressure sensor. , 2010, , .		3
268	Force sensor based on metal nanoparticle. , 2010, , .		1
269	Photo-response compensated piezoresistive cantilever for use in fluorescence microscopy. , 2010, , .		0
270	Measurement of elastic tension of Parylene films deposited on liquid. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
271	Triaxial force measurement cantilever by sidewall-doping with rapid thermal diffusion. , 2010, , .		2
272	Measurement of the impact stress in a golf club head. , 2010, , .		2
273	Sound direction sensor with an acoustic channel. , 2010, , .		5
274	Patterning PEDOT:PSS with Parylene Peel-off Method. IEEJ Transactions on Sensors and Micromachines, 2010, 130, 394-400.	0.0	4
275	Encapsulation Method of Glucose Oxidase Solution with Ionic Liquid Solvent and Direct Parylene Deposition. IEEJ Transactions on Sensors and Micromachines, 2010, 130, 562-569.	0.0	4
276	Preface to the Special Issue on "Fine MEMS Project" IEEJ Transactions on Sensors and Micromachines, 2010, 130, 145-145.	0.0	0
277	Self-alignment Method on a Temperature-Controlled Transfer. IEEJ Transactions on Sensors and Micromachines, 2010, 130, 188-193.	0.0	0
278	Fabrication and Demonstration of an Organic Electrochromic Volume Display Prototype. IEEJ Transactions on Sensors and Micromachines, 2010, 130, 550-551.	0.0	0
279	Fabrication of Three Dimensional Silicon Slopes Using Mask with Square Openings. IEEJ Transactions on Sensors and Micromachines, 2010, 130, 182-187.	0.0	0
280	Air Pressure Sensor for an Insect Wing. , 2009, , .		10
281	Integration of Bridging-Structural SWNTs on Flexible PDMS Sheet by Stamping Transfer. , 2009, , .		0
282	Tilted Paraboloidal Reflective Lens for Far Infrared Sensor Fabricated by Mask with Rectangular Openings. , 2009, , .		0
283	Peristaltic micropump fabricated by depositing parylene directly on liquid. , 2009, , .		2
284	Single pulse proximal distance sensor with thermoacoustic transmitter. , 2009, , .		0
285	Material discrimination by heat flow sensing. , 2009, , .		4
286	MEMS on robot applications. , 2009, , .		21
287	Stretchable Yarn of Display Elements. , 2009, , .		2
288	Adhesion force measurement between silicon and carbon nanotubes synthesized by chemical vapor deposition. , 2009, , .		2

#	ARTICLE	IF	CITATIONS
289	Flexible Tactile Sensor Sheet with Liquid Filter for Shear Force Detection. , 2009, , .		6
290	Self-aligned opposite mirrors for tilting field of view driven by electrowetting. , 2009, , .		0
291	Sensitivity enhancement by micro Helmholtz resonator for ultrasonic distance sensor. , 2009, , .		1
292	Temperature-controlled transfer and self-wiring for multi-color light-emitting diode arrays. Journal of Micromechanics and Microengineering, 2009, 19, 075015.	1.5	12
293	Probing the mechanical architecture of the vertebrate meiotic spindle. Nature Methods, 2009, 6, 167-172.	9.0	69
294	Stretchable Substrates for the Measurement of Intracellular Calcium Ion Concentration Responding to Mechanical Stress. , 2009, , .		0
295	Reflective Display using Ionic Liquid. , 2009, , .		2
296	Ellipsoidal micro lens fabricated by depositing parylene directly on liquid. , 2009, , .		1
297	Temperature-Controlled Transfer and Self-Wiring for Multi-Color Led Display on a Flexible Substrate. , 2009, , .		2
298	Solution Electrochemiluminescent Microfluidic Cell for Flexible and Stretchable Display. , 2009, , .		9
299	Nano-pillar structure for sensitivity enhancement of SPR sensor. , 2009, , .		5
300	Flexible, organic light-pen input device with integrated display. Sensors and Actuators B: Chemical, 2008, 135, 122-127.	4.0	22
301	Tapered waveguide by liquid for a coupler of optical fibers to MEMS devices. , 2008, , .		4
302	Polymer thin film deposited on liquid for varifocal encapsulated liquid lenses. Applied Physics Letters, 2008, 93, .	1.5	95
303	Tunable SPR coupler by flexible polymer grating. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	2
304	Three dimensional arrangement of sensors using development. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	0
305	Batch fabrication of carbon nanotubes at AFM probe tips and AFM imaging. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	0
306	Organic semiconductor based strain sensors for input system on flexible oleds. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	1

#	ARTICLE	IF	CITATIONS
307	Air flow sensor for an insect-like flapping wing. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	3
308	Scanning micromirror using deformation of a Parylene-Encapsulated Liquid Structure. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	2
309	Tactile sensor with standing piezoresistive cantilevers, covered with 2-layer skin type structures for texture detection of object surface. , 2008, , .		2
310	Fabrication method of sub-micrometer size planar gap for the micro fabry-perot interferometer. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	3
311	Implantable telemetry capsule for monitoring arterial oxygen saturation and heartbeat. , 2008, 2008, 3204-7.		1
312	Design and performance of micromolded plastic butterfly wings on butterfly ornithopter. , 2008, , .		11
313	Liquid motor driven by electrowetting. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	7
314	Mechanically flexible and expandable display with conductive-polymer-coated nylon fabric. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	5
315	Hidden vertical comb-drive actuator on PDMS fabricated by parts-transfer. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	7
316	Piezoresistor-equipped fluorescence-based cantilever probe for near-field scanning. Review of Scientific Instruments, 2007, 78, 083106.	0.6	2
317	Three-dimensional integration of heterogeneous silicon micro-structures by liftoff and stamping transfer. Journal of Micromechanics and Microengineering, 2007, 17, 1818-1827.	1.5	28
318	Angle-Tunable Liquid Wedge Prism Driven by Electrowetting. Journal of Microelectromechanical Systems, 2007, 16, 1537-1542.	1.7	17
319	A Standing Micro Coil for a High Resolution MRI. , 2007, , .		15
320	Thin Electrowetting Controlled Optical System with Pan/Tilt and Variable Focus Functions. , 2007, , .		1
321	Force sensor using carbon nanotubes directly synthesized on micro structure. , 2007, , .		1
322	Fabrication of a three-dimensional insect-wing model by micromolding of thermosetting resin with a thin elastmeric mold. Journal of Micromechanics and Microengineering, 2007, 17, 2485-2490.	1.5	44
323	Nanocrystalline porous silicon ultrasonic transmitter with patterned emission area. , 2007, , .		2
324	A micro planar coil for local high resolution magnetic resonance imaging. , 2007, , .		6

#	ARTICLE	IF	CITATIONS
325	Double-sided scanning micromirror array for autostereoscopic display. <i>Sensors and Actuators A: Physical</i> , 2007, 135, 80-85.	2.0	10
326	Three-Dimensional Sequential Self-Assembly of Microscale Objects. <i>Small</i> , 2007, 3, 1383-1389.	5.2	53
327	Mechanical Tuning of 2D Photonic Crystal with MEMS-based Electrostatic Actuator. , 2006, , .		1
328	Multiview autostereoscopic display with double-sided reflecting scanning micromirrors. , 2006, , .		1
329	A shear stress sensor for tactile sensing with the piezoresistive cantilever standing in elastic material. <i>Sensors and Actuators A: Physical</i> , 2006, 127, 295-301.	2.0	169
330	A thin camera with a zoom function using reflective optics. <i>Sensors and Actuators A: Physical</i> , 2006, 128, 191-196.	2.0	6
331	Transmittance tuning of photonic crystal reflectors using an AFM cantilever. <i>Sensors and Actuators A: Physical</i> , 2006, 128, 197-201.	2.0	10
332	A design method for out-of-plane structures by multi-step magnetic self-assembly. <i>Sensors and Actuators A: Physical</i> , 2006, 127, 310-315.	2.0	14
333	Organic light-emitting diode micro patterned with a silicon convex stamp. <i>Sensors and Actuators A: Physical</i> , 2006, 128, 339-343.	2.0	11
334	Creating a nano-sized light source by electrostatic trapping of nanoparticles in a nanogap. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 1285-1289.	1.5	17
335	A diffraction-limited, real-time, full-colour display. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 2194-2197.	1.5	1
336	Flight dynamics of a butterfly-type ornithopter. , 2005, , .		35
337	Neural Basis of Odor-source Searching Behavior in Insect Brain Systems Evaluated with a Mobile Robot. <i>Chemical Senses</i> , 2005, 30, i285-i286.	1.1	21
338	Direct Measurement of the Binding Force between Microfabricated Particles and a Planar Surface in Aqueous Solution by Force-Sensing Piezoresistive Cantilevers. <i>Langmuir</i> , 2005, 21, 11251-11261.	1.6	19
339	Multistep sequential batch assembly of three-dimensional ferromagnetic microstructures with elastic hinges. <i>Journal of Microelectromechanical Systems</i> , 2005, 14, 1265-1271.	1.7	58
340	Force sensing submicrometer thick cantilevers with ultra-thin piezoresistors by rapid thermal diffusion. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 423-428.	1.5	106
341	A Radio-Telemetry System With a Shape Memory Alloy Microelectrode for Neural Recording of Freely Moving Insects. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 133-137.	2.5	59
342	A flexible micromachined planar spiral inductor for use as an artificial tactile mechanoreceptor. <i>Sensors and Actuators A: Physical</i> , 2004, 111, 293-303.	2.0	30

#	ARTICLE	IF	CITATIONS
343	Electrowetting-based pico-liter liquid actuation in a glass-tube microinjector. Sensors and Actuators A: Physical, 2004, 114, 473-477.	2.0	19
344	Calcium concentration measurement by local fluorescent-dye Injection. Sensors and Actuators B: Chemical, 2004, 102, 7-13.	4.0	6
345	Three-Dimensional Micro-Self-Assembly Using Hydrophobic Interaction Controlled by Self-Assembled Monolayers. Journal of Microelectromechanical Systems, 2004, 13, 603-611.	1.7	65
346	Analysis of elastic micro optical components under large deformation. Journal of Micromechanics and Microengineering, 2003, 13, 149-154.	1.5	19
347	Soft-magnetic rotational microwings in an alternating magnetic field applicable to microflight mechanisms. Journal of Microelectromechanical Systems, 2003, 12, 221-227.	1.7	7
348	Characteristic Evaluation of the MEMS SiO ₂ Injector. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2003, 69, 3336-3342.	0.2	0
349	Sequential Batch Assembly of 3-D Microstructures by using a Magnetic Anisotropy and a Magnetic Field. IEEJ Transactions on Sensors and Micromachines, 2003, 123, 224-230.	0.0	1
350	Strategy towards fusion of nano and micro systems. , 2002, , .		0
351	Dynamics of a microflight mechanism with magnetic rotational wings in an alternating magnetic field. Journal of Microelectromechanical Systems, 2002, 11, 584-591.	1.7	5
352	Selective drive of electrostatic actuators using remote inductive powering. Sensors and Actuators A: Physical, 2002, 95, 269-273.	2.0	33
353	Fabrication method for out-of-plane, micro-coil by surface micromachining. Sensors and Actuators A: Physical, 2002, 97-98, 702-708.	2.0	21
354	A dual-channel FM transmitter for acquisition of flight muscle activities from the freely flying hawkmoth, <i>Agrius convolvuli</i> . Journal of Neuroscience Methods, 2002, 115, 181-187.	1.3	54
355	Parallel-plate electrostatic actuation with vertical hinges. Journal of Micromechanics and Microengineering, 2001, 11, 555-560.	1.5	5
356	A one-chip scanning retina with an integrated micromechanical scanning actuator. Journal of Microelectromechanical Systems, 2001, 10, 492-497.	1.7	20
357	Micro-magnetic Rotational Wings in an Alternating Magnetic Field. IEEJ Transactions on Sensors and Micromachines, 2001, 121, 221-229.	0.0	1
358	Study on a TiNi Thin Film Micro Actuator.. Journal of the Japan Society for Precision Engineering, 2001, 67, 246-250.	0.0	0
359	Three-dimensional micro self-assembly using bridging flocculation. Sensors and Actuators A: Physical, 2000, 83, 161-166.	2.0	24
360	Design and performance of a micro-sized biomorphic compound eye with a scanning retina. Journal of Microelectromechanical Systems, 2000, 9, 32-37.	1.7	23

#	ARTICLE	IF	CITATIONS
361	A three-dimensional shape memory alloy microelectrode with clipping structure for insect neural recording. <i>Journal of Microelectromechanical Systems</i> , 2000, 9, 24-31.	1.7	73
362	2 äfžã,ã,ãfãfžã,ãfãã@ã«ã. <i>Yosetsu Gakkai Shi/Journal of the Japan Welding Society</i> , 2000, 69, 497-501.	0.0	0
363	Flight performance of micro-wings rotating in an alternating magnetic field. , 1999, , .		6
364	Synthesis of the pheromone-oriented behaviour of silkworm moths by a mobile robot with moth antennae as pheromone sensors1This paper was presented at the Fifth World Congress on Biosensors, Berlin, Germany, 3â€“5 June 1998.1. <i>Biosensors and Bioelectronics</i> , 1999, 14, 195-202.	5.3	169
365	Three dimensional SMA microelectrodes with clipping structure for insect neural recording. , 1999, , .		10
366	An SMA Microelectrode for Insect Neural Recording. <i>IEEJ Transactions on Sensors and Micromachines</i> , 1999, 119, 641-647.	0.0	0
367	Micromechanical Devices. Microrobots. Artificial Insects.. <i>Journal of the Japan Society for Precision Engineering</i> , 1999, 65, 643-646.	0.0	0
368	Study on micro-flying robots. <i>Advanced Robotics</i> , 1998, 13, 245-246.	1.1	1
369	A Pheromone-Guided Mobile Robot that Behaves like a Silkworm Moth with Living Antennae as Pheromone Sensors. <i>International Journal of Robotics Research</i> , 1998, 17, 924-933.	5.8	49
370	A skeletal framework artificial hand actuated by pneumatic artificial muscles. <i>Advanced Robotics</i> , 1998, 13, 349-350.	1.1	3
371	Insect-model based microrobot. <i>Robotics and Autonomous Systems</i> , 1997, 21, 317-322.	3.0	4
372	Mobile microrobots. <i>Robotica</i> , 1996, 14, 469-476.	1.3	3
373	Control/communications group report. <i>Robotics and Autonomous Systems</i> , 1996, 18, 7-11.	3.0	1
374	Two-dimensional micro-self-assembly using the surface tension of water. <i>Sensors and Actuators A: Physical</i> , 1996, 57, 117-125.	2.0	96
375	Micromanipulation using magnetic field. , 1995, , .		16
376	Microrobot locomotion in a mechanical vibration field. <i>Advanced Robotics</i> , 1994, 9, 165-176.	1.1	15
377	Microrobot actuated by a vibration energy field. <i>Sensors and Actuators A: Physical</i> , 1994, 43, 366-370.	2.0	54
378	Insect-model based microrobot with elastic hinges. <i>Journal of Microelectromechanical Systems</i> , 1994, 3, 4-9.	1.7	97

#	ARTICLE	IF	CITATIONS
379	The development of an autonomous space robot operation testbed: ASROT. Advanced Robotics, 1993, 8, 45-59.	1.1	2
380	An Insect-Model-Based Microrobot with an External Skeleton and Elastic Joints.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1993, 59, 179-184.	0.2	1
381	Study of MHD(Magneto hydrodynamic) Micropump.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1993, 59, 205-210.	0.2	2
382	Integration of problem-solving and learning in intelligent robots. Advanced Robotics, 1992, 7, 309-328.	1.1	1
383	Creation of an insect-based microrobot with an external skeleton and elastic joints. , 1992, , .		49
384	Active vibration control of a multi-link space flexible manipulator with torque feedback. Advanced Robotics, 1991, 6, 23-39.	1.1	6
385	Compliance control for a two-link flexible manipulator.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1990, 56, 2642-2648.	0.2	8
386	Vibration control for two-link flexible manipulator using a wrist force sensor.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1990, 56, 2926-2931.	0.2	0
387	Dynamics in the dynamic walk of a quadruped robot. Advanced Robotics, 1989, 4, 283-301.	1.1	82
388	Dynamics and Control of the Quadruped Robot : Dynamic Walk by use of the Redundancy of Actuators Caused by the Multiple Touching Legs. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1989, 55, 2396-2401.	0.2	5
389	Dynamic control for two-link flexible manipulator.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1989, 55, 2022-2028.	0.2	5
390	Development of the concurrent process oriented language 'COL'. Advanced Robotics, 1987, 2, 21-38.	1.1	0
391	Dynamic Walk of a Biped. International Journal of Robotics Research, 1984, 3, 60-74.	5.8	393
392	Dynamical Walk of Stilts Type Biped Locomotion. Bulletin of the JSME, 1983, 26, 873-881.	0.1	3
393	Visual guidance of a small mobile robot using active, biologically-inspired, eye movements. , 0, , .		14
394	A nano lead on a force sensing cantilever for bilateral manipulation of a single cell. , 0, , .		3
395	A Model Of Intelligence For Robots: The Integration Of Problem Solving, Learning, And Execution Management. , 0, , .		0
396	Analysis of the flight performance of small magnetic rotating wings for use in microrobots. , 0, , .		6

#	ARTICLE	IF	CITATIONS
397	A small-sized panoramic scanning visual sensor inspired by the fly's compound eye. , 0, , .		18
398	An RF-telemetry system with shape memory alloy microelectrodes for neural recording of freely moving insects. , 0, , .		8
399	A multi-channel micro valve for micro pneumatic artificial muscle. , 0, , .		6
400	Electro-statically actuated light emitting device using OLED. , 0, , .		0
401	Electrowetting-based actuation for microinjection. , 0, , .		2
402	Calcium measurement method by fluorescent analyses using a glass micro injector. , 0, , .		3
403	Integrated multi-functional probe for active measurements in a single neural cell. , 0, , .		6
404	Silicon based nano lead for single cell recording. , 0, , .		4
405	The flexible micro resonator for the magnetic resonance catheter. , 0, , .		0
406	Miniature fuel cell with conductive silicon electrodes. , 0, , .		6
407	Selective bridging of single-walled carbon nanotubes controlled with electric field applied to silicon structures. , 0, , .		2
408	The micro fabry-perot interferometer for the spectral endoscopy. , 0, , .		5
409	Direct ink-jet printing of electric materials with active alignment control. , 0, , .		3