

# Hidetoshi Takahashi

## List of Publications by Year in descending order

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409  
papers

5,161  
citations

136885

32  
h-index

143943

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. Minimally Invasive Therapy and Allied Technologies, 2022, 31, 28-33.	0.6	5
2	Compact Sphere-Shaped Airflow Vector Sensor Based on MEMS Differential Pressure Sensors. Sensors, 2022, 22, 1087.	2.1	6
3	Displacement Visualization at Flexible Interface: A Coordinate Correction Scheme Applicable to High-Accuracy Pressure Distribution Mapping. IEEE Transactions on Instrumentation and Measurement, 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. Micromachines, 2022, 13, 645.	1.4	4
8	6-Axis Stress Tensor Sensor Using Multifaceted Silicon Piezoresistors. Micromachines, 2021, 12, 279.	1.4	0
9	Biaxial Angular Acceleration Sensor with Rotational-Symmetric Spiral Channels and MEMS Piezoresistive Cantilevers. Micromachines, 2021, 12, 507.	1.4	9
10	Seabird Biologging System with Compact Waterproof Airflow Sensor. Journal of Robotics and Mechatronics, 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. Measurement Science and Technology, 2021, 32, 115118.	1.4	1
12	Acoustic notch filtering earmuff utilizing Helmholtz resonator arrays. PLoS ONE, 2021, 16, e0258842.	1.1	6
13	Force Plate with Simple Mechanical Springs and Separated Noncontact Sensor Elements. Sensors, 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. Smart Materials and Structures, 2020, 29, 025015.	1.8	9
16	Self-focusing 3D lithography with varying refractive index polyethylene glycol diacrylate. Applied Physics Express, 2020, 13, 076503.	1.1	10
17	MEMS triaxial gyroscope using surface and sidewall doping piezoresistors. Journal of Micromechanics and Microengineering, 2020, 30, 105012.	1.5	5
18	3D Hydrogel Manufacturing Employing Self-Focusing During Photo-Curing Process. , 2020, , .		0

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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

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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

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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

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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

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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



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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. IEEJ 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

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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

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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

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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

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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 <sub>2</sub> 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
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