

Hidetoshi Takahashi

List of Publications by Year in descending order

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409
papers

5,161
citations

147566

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143772

57
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409
all docs

409
docs citations

409
times ranked

4495
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Walk of a Biped. International Journal of Robotics Research, 1984, 3, 60-74.	5.8	393
2	Enantiomeric switching of chiral metamaterial for terahertz polarization modulation employing vertically deformable MEMS spirals. Nature Communications, 2015, 6, 8422.	5.8	224
3	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. Biosensors and Bioelectronics, 1999, 14, 195-202.	5.3	169
4	A shear stress sensor for tactile sensing with the piezoresistive cantilever standing in elastic material. Sensors and Actuators A: Physical, 2006, 127, 295-301.	2.0	169
5	Home-Assistant Robot for an Aging Society. Proceedings of the IEEE, 2012, 100, 2429-2441.	16.4	120
6	Differential pressure sensor using a piezoresistive cantilever. Journal of Micromechanics and Microengineering, 2012, 22, 055015.	1.5	112
7	Force sensing submicrometer thick cantilevers with ultra-thin piezoresistors by rapid thermal diffusion. Journal of Micromechanics and Microengineering, 2004, 14, 423-428.	1.5	106
8	Insect-model based microrobot with elastic hinges. Journal of Microelectromechanical Systems, 1994, 3, 4-9.	1.7	97
9	Two-dimensional micro-self-assembly using the surface tension of water. Sensors and Actuators A: Physical, 1996, 57, 117-125.	2.0	96
10	Polymer thin film deposited on liquid for varifocal encapsulated liquid lenses. Applied Physics Letters, 2008, 93, .	1.5	95
11	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
12	Dynamics in the dynamic walk of a quadruped robot. Advanced Robotics, 1989, 4, 283-301.	1.1	82
13	High-sensitivity triaxial tactile sensor with elastic microstructures pressing on piezoresistive cantilevers. Sensors and Actuators A: Physical, 2014, 215, 167-175.	2.0	79
14	A three-dimensional shape memory alloy microelectrode with clipping structure for insect neural recording. Journal of Microelectromechanical Systems, 2000, 9, 24-31.	1.7	73
15	Probing the mechanical architecture of the vertebrate meiotic spindle. Nature Methods, 2009, 6, 167-172.	9.0	69
16	Forward flight of swallowtail butterfly with simple flapping motion. Bioinspiration and Biomimetics, 2010, 5, 026003.	1.5	66
17	Three-Dimensional Micro-Self-Assembly Using Hydrophobic Interaction Controlled by Self-Assembled Monolayers. Journal of Microelectromechanical Systems, 2004, 13, 603-611.	1.7	65
18	Spiral metamaterial for active tuning of optical activity. Applied Physics Letters, 2013, 102, .	1.5	61

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19	A Radio-Telemetry System With a Shape Memory Alloy Microelectrode for Neural Recording of Freely Moving Insects. IEEE Transactions on Biomedical Engineering, 2004, 51, 133-137.	2.5	59
20	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
21	Multistep sequential batch assembly of three-dimensional ferromagnetic microstructures with elastic hinges. Journal of Microelectromechanical Systems, 2005, 14, 1265-1271.	1.7	58
22	Transparent conductive-polymer strain sensors for touch input sheets of flexible displays. Journal of Micromechanics and Microengineering, 2010, 20, 075017.	1.5	58
23	Microrobot actuated by a vibration energy field. Sensors and Actuators A: Physical, 1994, 43, 366-370.	2.0	54
24	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
25	Three-Dimensional Sequential Self-Assembly of Microscale Objects. Small, 2007, 3, 1383-1389.	5.2	53
26	How merging droplets jump off a superhydrophobic surface: Measurements and model. Physical Review Fluids, 2017, 2, .	1.0	52
27	Creation of an insect-based microrobot with an external skeleton and elastic joints. , 1992, , .		49
28	A Pheromone-Guided Mobile Robot that Behaves like a Silkworm Moth with Living Antennae as Pheromone Sensors. International Journal of Robotics Research, 1998, 17, 924-933.	5.8	49
29	Fabrication of a three-dimensional insect-wing model by micromolding of thermosetting resin with a thin elastomeric mold. Journal of Micromechanics and Microengineering, 2007, 17, 2485-2490.	1.5	44
30	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
31	Silicon based near infrared photodetector using self-assembled organic crystalline nano-pillars. Applied Physics Letters, 2016, 108, .	1.5	37
32	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
33	Flight dynamics of a butterfly-type ornithopter. , 2005, , .		35
34	Selective drive of electrostatic actuators using remote inductive powering. Sensors and Actuators A: Physical, 2002, 95, 269-273.	2.0	33
35	3D flexible tactile sensor using electromagnetic induction coils. , 2012, , .		33
36	Stretchable tri-axis force sensor using conductive liquid. Sensors and Actuators A: Physical, 2014, 215, 123-129.	2.0	33

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37	Waterproof airflow sensor for seabird bio-logging using a highly sensitive differential pressure sensor and nano-hole array. <i>Sensors and Actuators A: Physical</i> , 2018, 281, 243-249.	2.0	33
38	Stretchable liquid tactile sensor for robot-joints. , 2010, , .		31
39	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
40	A Tactile Sensor Using Piezoresistive Beams for Detection of the Coefficient of Static Friction. <i>Sensors</i> , 2016, 16, 718.	2.1	30
41	NIR spectrometer using a Schottky photodetector enhanced by grating-based SPR. <i>Optics Express</i> , 2016, 24, 25797.	1.7	30
42	Three-dimensional integration of heterogeneous silicon micro-structures by liftoff and stamping transfer. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 1818-1827.	1.5	28
43	Tensile Film Stress of Parylene Deposited on Liquid. <i>Langmuir</i> , 2010, 26, 18771-18775.	1.6	28
44	Scalable fabrication of microneedle arrays via spatially controlled UV exposure. <i>Microsystems and Nanoengineering</i> , 2016, 2, 16049.	3.4	28
45	MEMS-Based Pulse Wave Sensor Utilizing a Piezoresistive Cantilever. <i>Sensors</i> , 2020, 20, 1052.	2.1	28
46	MEMS two-axis force plate array used to measure the ground reaction forces during the running motion of an ant. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 065014.	1.5	27
47	Differential pressure measurement using a free-flying insect-like ornithopter with an MEMS sensor. <i>Bioinspiration and Biomimetics</i> , 2010, 5, 036005.	1.5	26
48	Flexible tactile sensor for shear stress measurement using transferred sub- μm -thick Si piezoresistive cantilevers. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 115025.	1.5	25
49	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
50	Three-dimensional micro self-assembly using bridging flocculation. <i>Sensors and Actuators A: Physical</i> , 2000, 83, 161-166.	2.0	24
51	Reconfigurable Surface Plasmon Resonance Photodetector with a MEMS Deformable Cantilever. <i>ACS Photonics</i> , 2020, 7, 673-679.	3.2	24
52	Design and performance of a micro-sized biomorphic compound eye with a scanning retina. <i>Journal of Microelectromechanical Systems</i> , 2000, 9, 32-37.	1.7	23
53	Flexible, organic light-pen input device with integrated display. <i>Sensors and Actuators B: Chemical</i> , 2008, 135, 122-127.	4.0	22
54	Capillary Torque Caused by a Liquid Droplet Sandwiched between Two Plates. <i>Langmuir</i> , 2010, 26, 2497-2504.	1.6	22

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55	Micro-patterning of a conductive polymer and an insulation polymer using the Parylene lift-off method for electrochromic displays. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 075021.	1.5	22
56	A barometric pressure sensor based on the air-gap scale effect in a cantilever. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	22
57	MEMS piezoresistive cantilever for the direct measurement of cardiomyocyte contractile force. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 105005.	1.5	22
58	Fabrication method for out-of-plane, micro-coil by surface micromachining. <i>Sensors and Actuators A: Physical</i> , 2002, 97-98, 702-708.	2.0	21
59	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
60	MEMS on robot applications. , 2009, , .		21
61	A one-chip scanning retina with an integrated micromechanical scanning actuator. <i>Journal of Microelectromechanical Systems</i> , 2001, 10, 492-497.	1.7	20
62	Internal Resonance Phenomena in Coupled Ductile Cantilevers With Triple Frequency Ratio—Part I: Experimental Observations. <i>IEEE Sensors Journal</i> , 2019, 19, 5475-5483.	2.4	20
63	Analysis of elastic micro optical components under large deformation. <i>Journal of Micromechanics and Microengineering</i> , 2003, 13, 149-154.	1.5	19
64	Electrowetting-based pico-liter liquid actuation in a glass-tube microinjector. <i>Sensors and Actuators A: Physical</i> , 2004, 114, 473-477.	2.0	19
65	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
66	Design of a piezoresistive triaxial force sensor probe using the sidewall doping method. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 035027.	1.5	19
67	Out-of-plane actuation with a sub-micron initial gap for reconfigurable terahertz micro-electro-mechanical systems metamaterials. <i>Optics Express</i> , 2015, 23, 26243.	1.7	19
68	Highly sensitive and low-crosstalk angular acceleration sensor using mirror-symmetric liquid ring channels and MEMS piezoresistive cantilevers. <i>Sensors and Actuators A: Physical</i> , 2019, 287, 39-47.	2.0	19
69	Electrical detection SPR sensor with grating coupled backside illumination. <i>Optics Express</i> , 2019, 27, 17763.	1.7	19
70	A small-sized panoramic scanning visual sensor inspired by the fly's compound eye. , 0, , .		18
71	Internal Resonance Phenomena in Coupled Ductile Cantilevers With Triple Frequency Ratio-Part II: A Mass Sensitivity Amplification Schemes. <i>IEEE Sensors Journal</i> , 2019, 19, 5484-5492.	2.4	18
72	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

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73	Angle-Tunable Liquid Wedge Prism Driven by Electrowetting. <i>Journal of Microelectromechanical Systems</i> , 2007, 16, 1537-1542.	1.7	17
74	Differential pressure distribution measurement with an MEMS sensor on a free-flying butterfly wing. <i>Bioinspiration and Biomimetics</i> , 2012, 7, 036020.	1.5	17
75	Two-axis MEMS-based force sensor for measuring the interaction forces during the sliding of a droplet on a micropillar array. <i>Sensors and Actuators A: Physical</i> , 2015, 231, 35-43.	2.0	17
76	Micromanipulation using magnetic field. , 1995, , .		16
77	Microrobot locomotion in a mechanical vibration field. <i>Advanced Robotics</i> , 1994, 9, 165-176.	1.1	15
78	A Standing Micro Coil for a High Resolution MRI. , 2007, , .		15
79	Visual guidance of a small mobile robot using active, biologically-inspired, eye movements. , 0, , .		14
80	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
81	A graphene FET gas sensor gated by ionic liquid. , 2013, , .		14
82	The Effect of the Phase Angle between the Forewing and Hindwing on the Aerodynamic Performance of a Dragonfly-Type Ornithopter. <i>Aerospace</i> , 2016, 3, 4.	1.1	14
83	Scalable Fabrication of PEGDA Microneedles Using UV Exposure via a Rotating Prism. <i>Journal of Microelectromechanical Systems</i> , 2017, 26, 990-992.	1.7	14
84	Compact Surface Plasmon Resonance System with Au/Si Schottky Barrier. <i>Sensors</i> , 2018, 18, 399.	2.1	14
85	Time response characteristics of a highly sensitive barometric pressure change sensor based on MEMS piezoresistive cantilevers. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 070906.	0.8	14
86	A piezoelectric flow sensor for use as a wake-up switch for a wireless sensor network node. <i>Mechatronics</i> , 2013, 23, 893-897.	2.0	13
87	Direct physical exfoliation of few-layer graphene from graphite grown on a nickel foil using polydimethylsiloxane with tunable elasticity and adhesion. <i>Nanotechnology</i> , 2013, 24, 205302.	1.3	13
88	Depinning-Induced Capillary Wave during the Sliding of a Droplet on a Textured Surface. <i>Langmuir</i> , 2016, 32, 9523-9529.	1.6	13
89	Development of a single-chip elasticity sensor using MEMS-based piezoresistive cantilevers with different tactile properties. <i>Sensors and Actuators A: Physical</i> , 2019, 285, 362-368.	2.0	13
90	Temperature-controlled transfer and self-wiring for multi-color light-emitting diode arrays. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 075015.	1.5	12

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91	Tunable gold-coated polymer gratings for surface plasmon resonance coupling and scanning. Journal of Micromechanics and Microengineering, 2010, 20, 085032.	1.5	12
92	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
93	Organic light-emitting diode micro patterned with a silicon convex stamp. Sensors and Actuators A: Physical, 2006, 128, 339-343.	2.0	11
94	Design and performance of micromolded plastic butterfly wings on butterfly ornithopter. , 2008, , .		11
95	Measurement of differential pressure on a butterfly wing. , 2010, , .		11
96	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
97	MEMS microphone with a micro Helmholtz resonator. Journal of Micromechanics and Microengineering, 2012, 22, 085019.	1.5	11
98	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
99	Parallel Helmholtz resonators for a planar acoustic notch filter. Applied Physics Letters, 2014, 105, .	1.5	11
100	Si process compatible near-infrared photodetector using Au/Si nano-pillar array. , 2016, , .		11
101	MEMS 6-axis force-torque sensor attached to the tip of grasping forceps for identification of tumor in thoracoscopic surgery. , 2017, , .		11
102	Electrically detectable surface plasmon resonance sensor by combining a gold grating and a silicon photodiode. Applied Physics Express, 2018, 11, 022001.	1.1	11
103	Experimental Study of the Aerodynamic Interaction between the Forewing and Hindwing of a Beetle-Type Ornithopter. Aerospace, 2018, 5, 83.	1.1	11
104	Three dimensional SMA microelectrodes with clipping structure for insect neural recording. , 1999, , .		10
105	Transmittance tuning of photonic crystal reflectors using an AFM cantilever. Sensors and Actuators A: Physical, 2006, 128, 197-201.	2.0	10
106	Double-sided scanning micromirror array for autostereoscopic display. Sensors and Actuators A: Physical, 2007, 135, 80-85.	2.0	10
107	Air Pressure Sensor for an Insect Wing. , 2009, , .		10
108	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

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109	3D airflow velocity vector sensor. , 2011, , .		10
110	Differential pressure distribution measurement for the development of insect-sized wings. Measurement Science and Technology, 2013, 24, 055304.	1.4	10
111	Carbon dioxide gas sensor with ionic gel. , 2013, , .		10
112	Mechanical properties of few layer graphene cantilever. , 2014, , .		10
113	Self-focusing 3D lithography with varying refractive index polyethylene glycol diacrylate. Applied Physics Express, 2020, 13, 076503.	1.1	10
114	Solution Electrochemiluminescent Microfluidic Cell for Flexible and Stretchable Display. , 2009, , .		9
115	Micro suction cup array for wet/dry adhesion. , 2011, , .		9
116	CNT-FET gas sensor using a functionalized ionic liquid as gate. , 2012, , .		9
117	High sensitive 3D tactile sensor with the structure of elastic pyramids on piezoresistive cantilevers. , 2013, , .		9
118	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
119	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
120	MEMS-based pressure sensor with a superoleophobic membrane for measuring droplet vibration. , 2017, , .		9
121	Elastic Wave Measurement Using a MEMS AE Sensor. Applied Sciences (Switzerland), 2017, 7, 737.	1.3	9
122	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
123	Biaxial Angular Acceleration Sensor with Rotational-Symmetric Spiral Channels and MEMS Piezoresistive Cantilevers. Micromachines, 2021, 12, 507.	1.4	9
124	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
125	An RF-telemetry system with shape memory alloy microelectrodes for neural recording of freely moving insects. , 0, , .		8
126	Optical measurement of directional strain by scattering from nano-disk pairs aligned on an elastomer. Nanotechnology, 2012, 23, 315201.	1.3	8

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127	Simultaneous detection of particles and airflow with a MEMS piezoresistive cantilever. Measurement Science and Technology, 2013, 24, 025107.	1.4	8
128	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
129	Measurement of mechanomyogram. , 2014, , .		8
130	Measurement of jumping force of a fruit fly using a mesa structured force plate. , 2016, , .		8
131	Rigid two-axis MEMS force plate for measuring cellular traction force. Journal of Micromechanics and Microengineering, 2016, 26, 105006.	1.5	8
132	Soft-magnetic rotational microwings in an alternating magnetic field applicable to microflight mechanisms. Journal of Microelectromechanical Systems, 2003, 12, 221-227.	1.7	7
133	Liquid motor driven by electrowetting. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	7
134	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
135	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
136	A photoresponse-compensated parallel piezoresistive cantilever for cellular force measurements. Journal of Micromechanics and Microengineering, 2013, 23, 045015.	1.5	7
137	Insects have hairy eyes that reduce particle deposition. European Physical Journal: Special Topics, 2015, 224, 3361-3377.	1.2	7
138	Dynamic performance analysis of a micro cantilever embedded in elastomer. Journal of Micromechanics and Microengineering, 2015, 25, 075006.	1.5	7
139	Pressure distribution on the contact area during the impact of a droplet on a textured surface. , 2016, , .		7
140	Evaluation of ground slippery condition during walk of bipedal robot using MEMS slip sensor. , 2017, , .		7
141	A MEMS slip sensor: Estimations of triaxial force and coefficient of static friction for prediction of a slip. , 2017, , .		7
142	Three-Axis Ground Reaction Force Distribution during Straight Walking. Sensors, 2017, 17, 2431.	2.1	7
143	Cellular dynamics of bovine aortic smooth muscle cells measured using MEMS force sensors. Journal Physics D: Applied Physics, 2018, 51, 145401.	1.3	7
144	Active vibration control of a multi-link space flexible manipulator with torque feedback. Advanced Robotics, 1991, 6, 23-39.	1.1	6

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145	Analysis of the flight performance of small magnetic rotating wings for use in microrobots. , 0, , .		6
146	Flight performance of micro-wings rotating in an alternating magnetic field. , 1999, , .		6
147	A multi-channel micro valve for micro pneumatic artificial muscle. , 0, , .		6
148	Calcium concentration measurement by local fluorescent-dye Injection. Sensors and Actuators B: Chemical, 2004, 102, 7-13.	4.0	6
149	Integrated multi-functional probe for active measurements in a single neural cell. , 0, , .		6
150	Miniature fuel cell with conductive silicon electrodes. , 0, , .		6
151	A thin camera with a zoom function using reflective optics. Sensors and Actuators A: Physical, 2006, 128, 191-196.	2.0	6
152	A micro planar coil for local high resolution magnetic resonance imaging. , 2007, , .		6
153	Flexible Tactile Sensor Sheet with Liquid Filter for Shear Force Detection. , 2009, , .		6
154	Micro mirror arrays for improved sensitivity of thermopile infrared sensors. , 2011, , .		6
155	Differential pressure distribution measurement of a free-flying butterfly wing. , 2011, , .		6
156	Stretchable cell culture platforms using micropneumatic actuators. Micro and Nano Letters, 2013, 8, 865-868.	0.6	6
157	A hydrophone using liquid to bridge the gap of a piezo-resistive cantilever. , 2013, , .		6
158	Multi-axial confocal distance sensor using varifocal liquid lens. , 2013, , .		6
159	A viscometer based on vibration of droplets on a piezoresistive cantilever array. , 2015, , .		6
160	Pulse wave measurement in human using piezoresistive cantilever on liquid. , 2015, , .		6
161	6-axis force-torque sensor chip composed of 16 piezoresistive beams. , 2015, , .		6
162	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

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163	Micro Water Flow Measurement Using a Temperature-Compensated MEMS Piezoresistive Cantilever. <i>Micromachines</i> , 2020, 11, 647.	1.4	6
164	Acoustic notch filtering earmuff utilizing Helmholtz resonator arrays. <i>PLoS ONE</i> , 2021, 16, e0258842.	1.1	6
165	Compact Sphere-Shaped Airflow Vector Sensor Based on MEMS Differential Pressure Sensors. <i>Sensors</i> , 2022, 22, 1087.	2.1	6
166	Dynamics and Control of the Quadruped Robot : Dynamic Walk by use of the Redundancy of Actuators Caused by the Multiple Touching Legs. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 1989, 55, 2396-2401.	0.2	5
167	Dynamic control for two-link flexible manipulator.. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 1989, 55, 2022-2028.	0.2	5
168	Parallel-plate electrostatic actuation with vertical hinges. <i>Journal of Micromechanics and Microengineering</i> , 2001, 11, 555-560.	1.5	5
169	Dynamics of a microflight mechanism with magnetic rotational wings in an alternating magnetic field. <i>Journal of Microelectromechanical Systems</i> , 2002, 11, 584-591.	1.7	5
170	The micro fabry-perot interferometer for the spectral endoscopf. , 0, , .		5
171	Mechanically flexible and expandable display with conductive-polymer-coated nylon fabric. <i>Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)</i> , 2008, , .	0.0	5
172	Nano-pillar structure for sensitivity enhancement of SPR sensor. , 2009, , .		5
173	Skin-type tactile sensor using standing piezoresistive cantilever for micro structure detection. , 2010, , .		5
174	Three-dimensional silicon fabrication using microloading effects with a rectangular aperture mask. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 075022.	1.5	5
175	A wide wavelength range optical switch using a flexible photonic crystal waveguide and silicon rods. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 075009.	1.5	5
176	Sound direction sensor with an acoustic channel. , 2010, , .		5
177	The photo charge of a bacterioRhodopsin electrochemical cells measured by a charge amplifier. <i>IEICE Electronics Express</i> , 2011, 8, 505-511.	0.3	5
178	Microprism using capillary alignment. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 085009.	1.5	5
179	Triaxial force sensor with strain concentration notch beam for measurement of insect flight force. , 2012, , .		5
180	Effectiveness of bristled wing of thrips. , 2013, , .		5

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181	Measuring differential pressures with multiple MEMS sensors during takeoff of an insect-like ornithopter. Journal of Biomechanical Science and Engineering, 2014, 9, JBSE0004-JBSE0004.	0.1	5
182	Acoustic emission sensor using liquid-on-beam structure. , 2015, , .		5
183	A wall shear stress sensor using a pair of sidewall doped cantilevers. Journal of Micromechanics and Microengineering, 2017, 27, 075017.	1.5	5
184	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
185	Monitoring Volcanic Activity with High Sensitive Infrasound Sensor Using a Piezoresistive Cantilever. , 2019, , .		5
186	MEMS triaxial gyroscope using surface and sidewall doping piezoresistors. Journal of Micromechanics and Microengineering, 2020, 30, 105012.	1.5	5
187	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
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