

Libo Zhao

List of Publications by Year in descending order

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148
papers

1,496
citations

331670

21
h-index

434195

31
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148
all docs

148
docs citations

148
times ranked

1237
citing authors

#	ARTICLE	IF	CITATIONS
1	A high-resolution electric field sensor based on piezoelectric bimorph composite. <i>Smart Materials and Structures</i> , 2022, 31, 025008.	3.5	5
2	Coupling Effects of Crosstalk and Parasitic Loss on Capacitive Micromachined Ultrasonic Transducers. <i>IEEE Sensors Journal</i> , 2022, 22, 3281-3297.	4.7	4
3	Research on the High Temperature and High Pressure Gold-Plated Fiber Grating Dual-Parameter Sensing Measurement System. <i>Micromachines</i> , 2022, 13, 195.	2.9	3
4	In-situ synthesized N-doped ZnO for enhanced CO ₂ sensing: Experiments and DFT calculations. <i>Sensors and Actuators B: Chemical</i> , 2022, 357, 131359.	7.8	15
5	Influences of RF Magnetron Sputtering Power and Gas Flow Rate on a High Conductivity and Low Drift Rate of Tungsten-Rhenium Thin-Film Thermocouples. <i>Nanomaterials</i> , 2022, 12, 1120.	4.1	6
6	Large-Area and Clean Graphene Transfer on Gold-Nanopyramid-Structured Substrates: Implications for Surface-Enhanced Raman Scattering Detection. <i>ACS Applied Nano Materials</i> , 2022, 5, 3878-3888.	5.0	2
7	Piezoelectric-AlN resonators at two-dimensional flexural modes for the density and viscosity decoupled determination of liquids. <i>Microsystems and Nanoengineering</i> , 2022, 8, 38.	7.0	7
8	A flexible and wearable NO ₂ gas detection and early warning device based on a spraying process and an interdigital electrode at room temperature. <i>Microsystems and Nanoengineering</i> , 2022, 8, 40.	7.0	15
9	Advanced tools and methods for single-cell surgery. <i>Microsystems and Nanoengineering</i> , 2022, 8, 47.	7.0	27
10	Uniform Stress Distribution of Bimorph by Arc Mechanical Stopper for Maximum Piezoelectric Vibration Energy Harvesting. <i>Energies</i> , 2022, 15, 3268.	3.1	2
11	High Sensitivity Optical Fiber Mach-Zehnder Refractive Index Sensor Based on Waist-Enlarged Bitaper. <i>Micromachines</i> , 2022, 13, 689.	2.9	10
12	Simultaneous Measurement of Temperature and Refractive Index Using Michelson Interferometer Based on Waist-Enlarged Fiber Bitaper. <i>Micromachines</i> , 2022, 13, 658.	2.9	5
13	Finger Bending Sensing Based on Series-Connected Fiber Bragg Gratings. <i>Materials</i> , 2022, 15, 3472.	2.9	1
14	A Flexible and Wearable Nylon Fiber Sensor Modified by Reduced Graphene Oxide and ZnO Quantum Dots for Wide-Range NO ₂ Gas Detection at Room Temperature. <i>Materials</i> , 2022, 15, 3772.	2.9	7
15	Overview of Human Kinetic Energy Harvesting and Application. <i>ACS Applied Energy Materials</i> , 2022, 5, 7091-7114.	5.1	18
16	Thermoelectricity and antivibration properties of screen-printed nanodoped In _{1.35} ZnO _{2.11} /In ₂ O ₃ thin-film thermocouples on alumina substrates. <i>Ceramics International</i> , 2022, 48, 25747-25755.	4.8	7
17	Simulation, fabrication, and characteristics of high-temperature, quick-response tungsten-rhenium thin-film thermocouples probe sensor. <i>Measurement Science and Technology</i> , 2022, 33, 105105.	2.6	4
18	Highly heterogeneous epitaxy of flexoelectric BaTiO ₃ - δ membrane on Ge. <i>Nature Communications</i> , 2022, 13, .	12.8	22

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19	Self-sustained autonomous wireless sensing based on a hybridized TENG and PEG vibration mechanism. Nano Energy, 2021, 80, 105555.	16.0	80
20	Equivalent Circuit Model for a Large Array of Coupled Piezoelectric Micromachined Ultrasonic Transducers With High Emission Performance. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 718-733.	3.0	10
21	Modeling and design of V-shaped piezoelectric vibration energy harvester with stopper for low-frequency broadband and shock excitation. Sensors and Actuators A: Physical, 2021, 317, 112458.	4.1	23
22	A PMUT-based Ultrasonic Probe Used for Contact Force Sensing. , 2021, , .		2
23	Characterization of the Electrical Properties of a Double Heterostructure GaN/AlGaIn Epitaxial Layer with an AlGaIn Interlayer. Journal of Electronic Materials, 2021, 50, 2521-2529.	2.2	3
24	High-accuracy differential resonant pressure sensor with linear fitting method. Journal of Micromechanics and Microengineering, 2021, 31, 045006.	2.6	7
25	Contribution discrimination of auxetic cantilever for increased piezoelectric output in vibration energy harvesting. , 2021, , .		3
26	Design and Simulation of a Wide-Bandwidth CMUTs Array with Dual-Mixed radii and Multi Operating Modes. , 2021, , .		0
27	A Flexible Tactile Sensor for Three-dimensional Force Detection Based on Piezoelectric Sensing. , 2021, , .		2
28	A Wearable Strain Sensor Based on Fiber-structured PU/MXene/CNT Composite with Ultra-high Sensitivity and Broad Sensing Range. , 2021, , .		1
29	Temperature and pressure dual-parameter sensing based on Fiber Bragg Grating. , 2021, , .		0
30	Micro-fabricated alkali vapor cells for atomic spin gyroscope study. , 2021, , .		1
31	A Tunable Quasi-Zero Stiffness Mechanism for Thermal Compensation of a MEMS Gravimeter. , 2021, , .		1
32	Closed-Form Expressions on CMUTs With Layered Anisotropic Microplates Under Residual Stress and Pressure. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1828-1843.	3.0	4
33	A thin-film temperature sensor based on a flexible electrode and substrate. Microsystems and Nanoengineering, 2021, 7, 42.	7.0	35
34	Equivalent Circuit Analysis of CMUTs-based Device for Measurement in Liquid Samples. , 2021, , .		2
35	A flexible electrostatic nanogenerator and self-powered capacitive sensor based on electrospun polystyrene mats and graphene oxide films. Nanotechnology, 2021, 32, 405402.	2.6	22
36	Au-assisted Polymerization of Conductive Poly(N-phenylglycine) as High-performance Positive Electrodes for Asymmetric Supercapacitors. Nanotechnology, 2021, 33, .	2.6	1

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37	High-Performance Temperature Sensor by Employing Screen Printing Technology. <i>Micromachines</i> , 2021, 12, 924.	2.9	8
38	Well-connected ZnO nanoparticle network fabricated by in-situ annealing of ZIF-8 for enhanced sensitivity in gas sensing application. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130180.	7.8	12
39	Optimization on thermoelectric characteristics of indium tin oxide/indium oxide thin film thermocouples based on screen printing technology. <i>Review of Scientific Instruments</i> , 2021, 92, 105001.	1.3	6
40	A High-Frequency Acceleration Sensor Based on Fiber Grating. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-8.	4.7	5
41	Design and analysis of high-frequency fiber Bragg grating vibration sensor. <i>Measurement Science and Technology</i> , 2021, 32, 025108.	2.6	13
42	Array Design of Piezoelectric Micromachined Ultrasonic Transducers With Low-Crosstalk and High-Emission Performance. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 789-800.	3.0	21
43	Structural multi-objective optimization on a MUAV-based panâ€tilt for aerial remote sensing applications. <i>ISA Transactions</i> , 2020, 100, 405-421.	5.7	5
44	A temperature sensor based on flexible substrate with ultra-high sensitivity for low temperature measurement. <i>Sensors and Actuators A: Physical</i> , 2020, 315, 112341.	4.1	30
45	WRe26â€In2O3 probe-type thin film thermocouples applied to high temperature measurement. <i>Review of Scientific Instruments</i> , 2020, 91, 074901.	1.3	8
46	Effect of Annealing on the Thermoelectricity Properties of the WRe26-In2O3 Thin Film Thermocouples. <i>Micromachines</i> , 2020, 11, 664.	2.9	4
47	Wearable Tactile Sensors: Gelatin Methacryloylâ€Based Tactile Sensors for Medical Wearables (Adv.) <i>Tj ETQq1 1 0.784314 rgBT /Over</i>	14.9	6
48	A Novel Micro-Displacement Sensor Based on Double Optical Fiber Probes Made through Photopolymer Materials. <i>Materials</i> , 2020, 13, 5475.	2.9	5
49	Novel high-performance piezoresistive shock accelerometer for ultra-high-g measurement utilizing self-support sensing beams. <i>Review of Scientific Instruments</i> , 2020, 91, 085001.	1.3	11
50	Gelatin Methacryloylâ€Based Tactile Sensors for Medical Wearables. <i>Advanced Functional Materials</i> , 2020, 30, 2003601.	14.9	112
51	Novel resonant pressure sensor based on piezoresistive detection and symmetrical in-plane mode vibration. <i>Microsystems and Nanoengineering</i> , 2020, 6, 95.	7.0	27
52	Advanced Biological Imaging for Intracellular Micromanipulation: Methods and Applications. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7308.	2.5	6
53	System level design of wireless sensor node powered by piezoelectric vibration energy harvesting. <i>Sensors and Actuators A: Physical</i> , 2020, 310, 112039.	4.1	41
54	Precise Automated Intracellular Delivery Using a Robotic Cell Microscope System With Three-Dimensional Image Reconstruction Information. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2870-2881.	5.8	16

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55	Equivalent Circuit Models of Cell and Array for Resonant Cavity-Based Piezoelectric Micromachined Ultrasonic Transducer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 2103-2118.	3.0	13
56	The Radial Piezoelectric Response from Three-Dimensional Electrospun PVDF Micro Wall Structure. <i>Materials</i> , 2020, 13, 1368.	2.9	6
57	Optimal design of SiC piezoresistive pressure sensor considering material anisotropy. <i>Review of Scientific Instruments</i> , 2020, 91, 015004.	1.3	11
58	A High Precision Compound Control Scheme Based on Non-singular Terminal Sliding Mode and Extended State Observer for an Aerial Inertially Stabilized Platform. <i>International Journal of Control, Automation and Systems</i> , 2020, 18, 1498-1509.	2.7	16
59	Shielding Effectiveness Simulation of Rectangular Enclosures Using FIT. , 2020, , .		1
60	A Novel Piezoelectric Resonator for Liquid Density and Viscosity Measurement. , 2020, , .		0
61	Flexible carbon monoxide sensor for environmental detection of small-scale robot. <i>Micro and Nano Letters</i> , 2020, 15, 949-953.	1.3	1
62	Ultrasonic wireless communication using capacitive micromachined ultrasonic transducers in liquid with OOK digital modulation. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 125016.	2.6	0
63	A Novel Peninsula-island Structure for Sensing Ultra-low Pressure Based on Dry-wet Combination Etching Process. , 2020, , .		0
64	An Analytical Equivalent Circuit Model for Optimization Design of a Broadband Piezoelectric Micromachined Ultrasonic Transducer With an Annular Diaphragm. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 1760-1776.	3.0	21
65	A wearable and sensitive graphene-cotton based pressure sensor for human physiological signals monitoring. <i>Scientific Reports</i> , 2019, 9, 14457.	3.3	34
66	High accuracy comsol simulation method of bimorph cantilever for piezoelectric vibration energy harvesting. <i>AIP Advances</i> , 2019, 9, .	1.3	44
67	Capacitive micromachined ultrasonic transducers for transmitting and receiving ultrasound in air. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 125015.	2.6	3
68	Self-Powered Flexible Sensor Based on the Graphene Modified P(VDF-TrFE) Electrospun Fibers for Pressure Detection. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900504.	3.6	19
69	A CMUT-based gas density sensor with high sensitivity. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 115012.	2.6	0
70	The Gas Leak Detection Based on a Wireless Monitoring System. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 6240-6251.	11.3	35
71	Density Measurement Performance in Flowing Liquid Using Microcantilever-Based Resonators under Bending and Torsion Vibrations. , 2019, , .		1
72	A packaged piezoelectric vibration energy harvester with high power and broadband characteristics. <i>Sensors and Actuators A: Physical</i> , 2019, 295, 629-636.	4.1	29

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73	Parameter Optimization on FNN/PID Compound Controller for a Three-Axis Inertially Stabilized Platform for Aerial Remote Sensing Applications. Journal of Sensors, 2019, 2019, 1-15.	1.1	4
74	A resonant microcantilever sensor for in-plane multi-axis magnetic field measurements. Journal of Micromechanics and Microengineering, 2019, 29, 065010.	2.6	7
75	The Design and Analysis of a Novel Micro Force Sensor Based on Depletion Type Movable Gate Field Effect Transistor. Journal of Microelectromechanical Systems, 2019, 28, 298-310.	2.5	12
76	A High Accuracy Resonant Pressure Sensor with Lateral Driven and Piezoresistive Detection. , 2019, , .		0
77	Smith Matching for CMUTs-based Biochemical Resonant Sensor. , 2019, , .		0
78	A Novel Resonator Based on In-plane Mode for Fluid Density and Viscosity Measurements. , 2019, , .		0
79	The Design of a High Precision Capacitive Pressure Sensor Based on Comb Electrode. , 2019, , .		0
80	Study on the Enhancement of Diamond Fluorescence Characteristics by Multi-layer Anti-reflection Coating. , 2019, , .		0
81	Lumped Element Model for CMUTs-Based Biochemical Resonant Sensor. , 2019, , .		0
82	One kind of wide bandwidth and high radiation efficiency antenna for microwave manipulation of NV color centers. , 2019, , .		1
83	Development of a 4H-SiC Piezoresistive Pressure Sensor for High Temperature Applications. , 2019, , .		0
84	A High-g Triaxial Piezoresistive Accelerometer with Sensing Beams in Pure Axial Deformation. , 2019, , .		3
85	MEMS Piezoelectric Vibration Energy Harvester with In-Plane PZT Bimorph. , 2019, , .		0
86	Broadband vibration energy harvesting for wireless sensor node power supply in train container. Review of Scientific Instruments, 2019, 90, 125003.	1.3	17
87	3-D Image Reconstruction of Biological Organelles With a Robot-Aided Microscopy System for Intracellular Surgery. IEEE Robotics and Automation Letters, 2019, 4, 231-238.	5.1	17
88	A novel microsensors for measuring thermal conductivity of fluid based on three omega method. Review of Scientific Instruments, 2019, 90, 015002.	1.3	1
89	A Novel CMUT-Based Resonant Biochemical Sensor Using Electrospinning Technology. IEEE Transactions on Industrial Electronics, 2019, 66, 7356-7365.	7.9	16
90	A novel three-dimensional spiral CoNi LDHs on Au@ErGO wire for high performance fiber supercapacitor electrodes. Materials Letters, 2019, 236, 728-731.	2.6	26

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91	Optimizing electrospinning-hydrothermal hybrid process based on Taguchi method for modulation of point defects in ZnO micro/nano arrays towards photoelectronic application. Journal of Alloys and Compounds, 2019, 779, 167-174.	5.5	7
92	Evaluation of width and width uniformity of near-field electrospinning printed micro and sub-micrometer lines based on optical image processing. Journal of Micromechanics and Microengineering, 2018, 28, 035010.	2.6	6
93	Impact experiment analysis of MEMS ultra-high G piezoresistive shock accelerometer. , 2018, , .		5
94	Coupled Piezoelectric Micromachined Ultrasonic Transducers Array with High Ultrasonic Emission Performance. , 2018, , .		2
95	Novel Mechanical Coupling Piezoelectric Micromachined Ultrasonic Transducers Based on Base Excitation System. , 2018, , .		1
96	A Novel Air-Coupled Piezoelectric Micromachined Ultrasonic Transducers Based on Parametric Excitation Method. , 2018, , .		0
97	A piezoelectric cantilever with novel large mass for harvesting energy from low frequency vibrations. AIP Advances, 2018, 8, .	1.3	10
98	High Precision Control of an Inertially Stabilized Platform for Aerial Remote Sensing Applications. , 2018, , .		3
99	Temperature compensation in fluid density measurement using micro-electromechanical resonant sensor. Review of Scientific Instruments, 2018, 89, 125001.	1.3	6
100	A High-Precision Control Scheme Based on Active Disturbance Rejection Control for a Three-Axis Inertially Stabilized Platform for Aerial Remote Sensing Applications. Journal of Sensors, 2018, 2018, 1-9.	1.1	12
101	Giant enhancement on response-speed of electrospun-based UV photodetector via polydimethylsiloxane coating. , 2018, , .		3
102	An Improved Fuzzy Neural Network Compound Control Scheme for Inertially Stabilized Platform for Aerial Remote Sensing Applications. International Journal of Aerospace Engineering, 2018, 2018, 1-15.	0.9	7
103	Theoretical modeling and experimental verification of circular Halbach electromagnetic energy harvesters for performance enhancement. Smart Materials and Structures, 2018, 27, 095019.	3.5	18
104	Construction of NiCo ₂ O ₄ @NiFe LDHs core/shell nanowires array on carbon cloth for flexible, high-performance pseudocapacitor electrodes. Journal of Alloys and Compounds, 2018, 767, 1126-1132.	5.5	26
105	A closed-form approach for the resonant frequency analysis of clamped rectangular microplates under distributed electrostatic force. Sensors and Actuators A: Physical, 2018, 280, 447-458.	4.1	3
106	A GA-based parameters tuning method for an ADRC controller of ISP for aerial remote sensing applications. ISA Transactions, 2018, 81, 318-328.	5.7	62
107	Liquid packaging effects on piezoresistive MEMS accelerometer. , 2018, , .		1
108	Capacitive micromachined ultrasonic transducers for biochemical detection with flexible high sensitivity. , 2018, , .		3

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109	Fabrication of capacitive micromachined ultrasonic transducers with low-temperature direct wafer-Bonding technology. <i>Sensors and Actuators A: Physical</i> , 2017, 264, 63-75.	4.1	18
110	Piezoresistive pressure sensor with high sensitivity for medical application using peninsula-island structure. <i>Frontiers of Mechanical Engineering</i> , 2017, 12, 546-553.	4.3	25
111	A novel piezoresistive sensitive structure for micromachined high-pressure sensors. , 2017, , .		5
112	A novel MEMS force sensor based on Laterally Movable Gate Array Field Effect Transistor(LMGAFET). , 2017, , .		6
113	Application and Optimization of Stiffness Abruption Structures for Pressure Sensors with High Sensitivity and Anti-Overload Ability. <i>Sensors</i> , 2017, 17, 1965.	3.8	19
114	A Novel Piezoresistive Accelerometer with SPBs to Improve the Tradeoff between the Sensitivity and the Resonant Frequency. <i>Sensors</i> , 2016, 16, 210.	3.8	20
115	A MEMS Resonant Sensor to Measure Fluid Density and Viscosity under Flexural and Torsional Vibrating Modes. <i>Sensors</i> , 2016, 16, 830.	3.8	24
116	A Novel Slope Method for Measurement of Fluid Density with a Micro-cantilever under Flexural and Torsional Vibrations. <i>Sensors</i> , 2016, 16, 1471.	3.8	7
117	Analysis of the 3D method for the measurement of fluid thermal properties. , 2016, , .		0
118	Vibration and large deformation simulation analysis of graphene membrane for nanomechanical applications. , 2016, , .		0
119	Analysis and design of a novel piezoresistive accelerometer with axially stressed self-supporting sensing beams. <i>Sensors and Actuators A: Physical</i> , 2016, 247, 1-11.	4.1	17
120	The fluid viscosity measurement based on variable cross-section MEMS cantilever under torsional excitation. , 2015, , .		1
121	Capacitive micromachined ultrasonic transducer for ultra-low pressure measurement: Theoretical study. <i>AIP Advances</i> , 2015, 5, .	1.3	7
122	Synthetic preparation of novel 3D Si/TiO ₂ @TiO ₃ composite nanorod arrays as anodes in lithium ion batteries. <i>RSC Advances</i> , 2015, 5, 37399-37404.	3.6	8
123	A novel capacitive micromachined transducer for micro-pressure measurement. , 2015, , .		0
124	Fabrication of CMUTs with a low temperature wafer bonding technology. , 2015, , .		1
125	Mechanical behavior analysis on electrostatically actuated rectangular microplates. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 035007.	2.6	13
126	An Improved Method for the Mechanical Behavior Analysis of Electrostatically Actuated Microplates Under Uniform Hydrostatic Pressure. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 474-485.	2.5	13

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127	Capacitive micromachined ultrasonic transducer for ultra-low pressure detection. , 2014, , .		4
128	A novel piezoresistive accelerometer featuring in-plane vibration. , 2014, , .		2
129	Sensitivity enhancement of a microcantilever based DC current sensor by using its torsional modes. Measurement Science and Technology, 2014, 25, 125108.	2.6	1
130	In-Situ Measurement of Fluid Density Rapidly Using a Vibrating Piezoresistive Microcantilever Sensor Without Resonance Occurring. IEEE Sensors Journal, 2014, 14, 645-650.	4.7	8
131	A trapezoidal cantilever density sensor based on MEMS technology. Journal of Zhejiang University: Science C, 2013, 14, 274-278.	0.7	3
132	An ultra-high pressure sensor with cylinder structure. Journal of Mechanical Science and Technology, 2013, 27, 2383-2389.	1.5	6
133	A fluid viscosity sensor with resonant trapezoidal micro cantilever. , 2013, , .		2
134	Capacitive micromachined ultrasonic transducer as a resonant temperature sensor. , 2013, , .		0
135	MEMS fluid density sensor based on oscillating piezoresistive microcantilever. , 2013, , .		0
136	Magnetically actuated resonant piezoresistive microcantilever operating in fluid for dc current measurement. , 2013, , .		0
137	Resonant frequency analysis on an electrostatically actuated microplate under uniform hydrostatic pressure. Journal Physics D: Applied Physics, 2013, 46, 195108.	2.8	20
138	DC current measurement utilizing a resonant magnetically actuated piezoresistive microcantilever. Measurement Science and Technology, 2013, 24, 125102.	2.6	2
139	Active Frequency Tuning for Magnetically Actuated and Piezoresistively Sensed MEMS Resonators. IEEE Electron Device Letters, 2013, 34, 921-923.	3.9	12
140	Multilayer graphene sheets assembled by Langmuir-Blodgett fro tribology application. , 2012, , .		0
141	Design and characterization of an integrated multifunction micro sensor. Microsystem Technologies, 2012, 18, 283-294.	2.0	3
142	Surface stress-induced deflection of a microcantilever with various widths and overall microcantilever sensitivity enhancement via geometry modification. Journal Physics D: Applied Physics, 2011, 44, 425402.	2.8	24
143	Development of a Piezoresistive Force Transmitter for Gauging Yarn's Linear Density in High-Speed Textile Machinery. IEEE Sensors Journal, 2011, 11, 2279-2285.	4.7	0
144	An ultra-high pressure sensor based on SOI piezoresistive material. Journal of Mechanical Science and Technology, 2010, 24, 1655-1660.	1.5	15

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145	A MEMS density sensor based on micro-rectangular cantilever. , 2010, , .		1
146	A MEMS resonator-type viscosity sensor based on triangular cantilever. , 2010, , .		1
147	Research and evaluation of a high temperature pressure sensor chip. , 2009, , .		2
148	High-precision and long-range optical fiber Fabry-Perot interferometer for high temperature measurement. Measurement Science and Technology, 0, , .	2.6	0