

Jiang Zhuangde

List of Publications by Year in descending order

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Version: 2024-02-01

199
papers

1,819
citations

279798

23
h-index

454955

30
g-index

201
all docs

201
docs citations

201
times ranked

1493
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | A low noise capacitive MEMS accelerometer with anti-spring structure. <i>Sensors and Actuators A: Physical</i> , 2019, 296, 79-86. | 4.1 | 54 |
| 2 | A one-pot CRISPR/Cas13a-based contamination-free biosensor for low-cost and rapid nucleic acid diagnostics. <i>Biosensors and Bioelectronics</i> , 2022, 202, 113994. | 10.1 | 53 |
| 3 | Periodic Wrinkle-Patterned Single-Crystalline Ferroelectric Oxide Membranes with Enhanced Piezoelectricity. <i>Advanced Materials</i> , 2020, 32, e2004477. | 21.0 | 47 |
| 4 | High accuracy comsol simulation method of bimorph cantilever for piezoelectric vibration energy harvesting. <i>AIP Advances</i> , 2019, 9, . | 1.3 | 44 |
| 5 | Low-temperature remote plasma-enhanced atomic layer deposition of graphene and characterization of its atomic-level structure. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7570-7574. | 5.5 | 42 |
| 6 | Anisotropic conductive reduced graphene oxide/silk matrices promote post-infarction myocardial function by restoring electrical integrity. <i>Acta Biomaterialia</i> , 2022, 139, 190-203. | 8.3 | 40 |
| 7 | Synchronization of electrically coupled micromechanical oscillators with a frequency ratio of 3:1. <i>Applied Physics Letters</i> , 2018, 112, . | 3.3 | 37 |
| 8 | Tungsten-rhenium thin film thermocouples for SiC-based ceramic matrix composites. <i>Review of Scientific Instruments</i> , 2017, 88, 015007. | 1.3 | 35 |
| 9 | Sensitivity enhancement of a resonant mass sensor based on internal resonance. <i>Applied Physics Letters</i> , 2018, 113, . | 3.3 | 35 |
| 10 | Electrochemical methods for detection of biomarkers of Chronic Obstructive Pulmonary Disease in serum and saliva. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111453. | 10.1 | 35 |
| 11 | A thin-film temperature sensor based on a flexible electrode and substrate. <i>Microsystems and Nanoengineering</i> , 2021, 7, 42. | 7.0 | 35 |
| 12 | A wearable and sensitive graphene-cotton based pressure sensor for human physiological signals monitoring. <i>Scientific Reports</i> , 2019, 9, 14457. | 3.3 | 34 |
| 13 | Programmable synchronization enhanced MEMS resonant accelerometer. <i>Microsystems and Nanoengineering</i> , 2020, 6, 63. | 7.0 | 33 |
| 14 | Ultraflexible and Malleable Fe/BaTiO ₃ Multiferroic Heterostructures for Functional Devices. <i>Advanced Functional Materials</i> , 2021, 31, 2009376. | 14.9 | 30 |
| 15 | High-performance photodetector based on an interface engineering-assisted graphene/silicon Schottky junction. <i>Microsystems and Nanoengineering</i> , 2022, 8, 9. | 7.0 | 30 |
| 16 | Doping Ag in ZnO Nanorods to Improve the Performance of Related Enzymatic Glucose Sensors. <i>Sensors</i> , 2017, 17, 2214. | 3.8 | 28 |
| 17 | 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 |
| 18 | Advanced tools and methods for single-cell surgery. <i>Microsystems and Nanoengineering</i> , 2022, 8, 47. | 7.0 | 27 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Analysis and design for piezoresistive accelerometer geometry considering sensitivity, resonant frequency and cross-axis sensitivity. <i>Microsystem Technologies</i> , 2014, 20, 463-470. | 2.0 | 26 |
| 20 | Magnetolectric devices based on magnetolectric bulk composites. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5594-5614. | 5.5 | 26 |
| 21 | 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 |
| 22 | 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 |
| 23 | Range Analysis of Thermal Stress and Optimal Design for Tungsten-Rhenium Thin Film Thermocouples Based on Ceramic Substrates. <i>Sensors</i> , 2017, 17, 857. | 3.8 | 24 |
| 24 | Study of ZnS Nanostructures Based Electrochemical and Photoelectrochemical Biosensors for Uric Acid Detection. <i>Sensors</i> , 2017, 17, 1235. | 3.8 | 24 |
| 25 | BACK PROPAGATION NEURAL NETWORK MODEL FOR TEMPERATURE AND HUMIDITY COMPENSATION OF A NON DISPERSIVE INFRARED METHANE SENSOR. <i>Instrumentation Science and Technology</i> , 2013, 41, 608-618. | 1.8 | 23 |
| 26 | Uncertainty estimation in measurement of micromechanical properties using random-fuzzy variables. <i>Review of Scientific Instruments</i> , 2006, 77, 035107. | 1.3 | 22 |
| 27 | Acoustic valves in microfluidic channels for droplet manipulation. <i>Lab on A Chip</i> , 2021, 21, 3165-3173. | 6.0 | 22 |
| 28 | A flexible electrostatic nanogenerator and self-powered capacitive sensor based on electrospun polystyrene mats and graphene oxide films. <i>Nanotechnology</i> , 2021, 32, 405402. | 2.6 | 22 |
| 29 | Highly heterogeneous epitaxy of flexoelectric BaTiO ₃ - δ membrane on Ge. <i>Nature Communications</i> , 2022, 13, . | 12.8 | 22 |
| 30 | 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 |
| 31 | Acoustic-Controlled Bubble Generation and Fabrication of 3D Polymer Porous Materials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22318-22326. | 8.0 | 20 |
| 32 | 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 |
| 33 | High Temperature High Sensitivity Multipoint Sensing System Based on Three Cascade Mach-Zehnder Interferometers. <i>Sensors</i> , 2018, 18, 2688. | 3.8 | 19 |
| 34 | 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 |
| 35 | Nonlinear coupling of flexural mode and extensional bulk mode in micromechanical resonators. <i>Applied Physics Letters</i> , 2016, 109, . | 3.3 | 18 |
| 36 | Modeling and Analysis of a Combined Stress-Vibration Fiber Bragg Grating Sensor. <i>Sensors</i> , 2018, 18, 743. | 3.8 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Overview of Human Kinetic Energy Harvesting and Application. ACS Applied Energy Materials, 2022, 5, 7091-7114. | 5.1 | 18 |
| 38 | Frequency latching in nonlinear micromechanical resonators. Applied Physics Letters, 2017, 110, . | 3.3 | 17 |
| 39 | Thermoelectric Characteristics of Silicon Carbide and Tungsten-Rhenium-Based Thin-Film Thermocouples Sensor with Protective Coating Layer by RF Magnetron Sputtering. Materials, 2019, 12, 1981. | 2.9 | 17 |
| 40 | Surface Characteristics of Polished YAG Laser Crystal. Crystal Research and Technology, 2019, 54, 1800274. | 1.3 | 17 |
| 41 | Broadband vibration energy harvesting for wireless sensor node power supply in train container. Review of Scientific Instruments, 2019, 90, 125003. | 1.3 | 17 |
| 42 | A quantitative analysis of the indentation fracture of fused silica. Journal of the American Ceramic Society, 2019, 102, 7264-7277. | 3.8 | 16 |
| 43 | A Novel CMUT-Based Resonant Biochemical Sensor Using Electrospinning Technology. IEEE Transactions on Industrial Electronics, 2019, 66, 7356-7365. | 7.9 | 16 |
| 44 | Optical Sensor Based on a Single CdS Nanobelt. Sensors, 2014, 14, 7332-7341. | 3.8 | 15 |
| 45 | A flexible and wearable NO ₂ gas detection and early warning device based on a spraying process and an interdigital electrode at room temperature. Microsystems and Nanoengineering, 2022, 8, 40. | 7.0 | 15 |
| 46 | An Improved Method for the Mechanical Behavior Analysis of Electrostatically Actuated Microplates Under Uniform Hydrostatic Pressure. Journal of Microelectromechanical Systems, 2015, 24, 474-485. | 2.5 | 13 |
| 47 | Design and Analysis of a Combined Strain-Vibration-Temperature Sensor with Two Fiber Bragg Gratings and a Trapezoidal Beam. Sensors, 2019, 19, 3571. | 3.8 | 13 |
| 48 | Anomalous amplitude-frequency dependence in a micromechanical resonator under synchronization. Nonlinear Dynamics, 2021, 103, 467-479. | 5.2 | 13 |
| 49 | Design and analysis of high-frequency fiber Bragg grating vibration sensor. Measurement Science and Technology, 2021, 32, 025108. | 2.6 | 13 |
| 50 | Active Frequency Tuning for Magnetically Actuated and Piezoresistively Sensed MEMS Resonators. IEEE Electron Device Letters, 2013, 34, 921-923. | 3.9 | 12 |
| 51 | Response characteristics of a potentiometric CO ₂ gas sensor based on Li ₃ PO ₄ solid electrolyte using Au film as the electrodes. Journal of Applied Physics, 2014, 115, 124505. | 2.5 | 12 |
| 52 | A Novel Single-Axis MEMS Tilt Sensor with a High Sensitivity in the Measurement Range from 0° to 360°. Sensors, 2018, 18, 346. | 3.8 | 12 |
| 53 | Internal resonance between the extensional and flexural modes in micromechanical resonators. Journal of Applied Physics, 2019, 126, . | 2.5 | 12 |
| 54 | Solid Potentiometric $\{m\text{CO}}_2\}$ Sensor Using $\{m\text{Li}}_3\{m\text{PO}}_4\}$ Film as the Electrolyte. IEEE Sensors Journal, 2012, 12, 2001-2005. | 4.7 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Measurement of aspheric surface combining point diffraction interferometry and annular subaperture stitching. <i>Optical Engineering</i> , 2015, 54, 014102. | 1.0 | 11 |
| 56 | Isolation of sodium chloride crystals induced by standing surface acoustic waves (SSAWs) in a drying droplet. <i>CrystEngComm</i> , 2016, 18, 6784-6788. | 2.6 | 11 |
| 57 | Numerical simulation and experimental study of surface waviness during full aperture rapid planar polishing. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 3273-3282. | 3.0 | 11 |
| 58 | 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 |
| 59 | Optimal design of SiC piezoresistive pressure sensor considering material anisotropy. <i>Review of Scientific Instruments</i> , 2020, 91, 015004. | 1.3 | 11 |
| 60 | Self-Assembled Epitaxial Ferroelectric Oxide Nanospring with Super-Scalability. <i>Advanced Materials</i> , 2022, 34, e2108419. | 21.0 | 11 |
| 61 | Light scattering properties in spatial planes for label free cells with different internal structures. <i>Optical and Quantum Electronics</i> , 2015, 47, 1005-1025. | 3.3 | 10 |
| 62 | A piezoelectric cantilever with novel large mass for harvesting energy from low frequency vibrations. <i>AIP Advances</i> , 2018, 8, . | 1.3 | 10 |
| 63 | The influence of key characteristic parameters on performance of optical fiber Fabry-Perot temperature sensor. <i>AIP Advances</i> , 2020, 10, 085118. | 1.3 | 10 |
| 64 | Design and Analysis of a Combined FBG Sensor for the Measurement of Three Parameters. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-10. | 4.7 | 10 |
| 65 | High Sensitivity Optical Fiber Mach-Zehnder Refractive Index Sensor Based on Waist-Enlarged Bitaper. <i>Micromachines</i> , 2022, 13, 689. | 2.9 | 10 |
| 66 | Construction of core-shell microcapsules via focused surface acoustic wave microfluidics. <i>Lab on A Chip</i> , 2020, 20, 3104-3108. | 6.0 | 9 |
| 67 | Flexible four-point conjugate thin film thermocouples with high reliability and sensitivity. <i>Review of Scientific Instruments</i> , 2020, 91, 045004. | 1.3 | 9 |
| 68 | Asymmetric phononic frequency comb in a rhombic micromechanical resonator. <i>Applied Physics Letters</i> , 2021, 118, . | 3.3 | 9 |
| 69 | Freestanding single-crystal $\text{Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$ ferrite membranes with controllable enhanced magnetic properties for flexible RF/microwave applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 17099-17106. | 5.5 | 9 |
| 70 | In-Situ Measurement of Fluid Density Rapidly Using a Vibrating Piezoresistive Microcantilever Sensor Without Resonance Occurring. <i>IEEE Sensors Journal</i> , 2014, 14, 645-650. | 4.7 | 8 |
| 71 | TCAD Simulation for Nonresonant Terahertz Detector Based on Double-Channel GaN/AlGaIn High-Electron-Mobility Transistor. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 4807-4813. | 3.0 | 8 |
| 72 | WRe ₂₆ -In ₂ O ₃ probe-type thin film thermocouples applied to high temperature measurement. <i>Review of Scientific Instruments</i> , 2020, 91, 074901. | 1.3 | 8 |

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|----|---|------|-----------|
| 73 | High-Performance Temperature Sensor by Employing Screen Printing Technology. <i>Micromachines</i> , 2021, 12, 924. | 2.9 | 8 |
| 74 | High-Sensitivity Enzymatic Glucose Sensor Based on ZnO Urchin-like Nanostructure Modified with Fe ₃ O ₄ Magnetic Particles. <i>Micromachines</i> , 2021, 12, 977. | 2.9 | 8 |
| 75 | Giant strain responses and relaxor characteristics in lead-free (Bi _{0.5} Na _{0.5})TiO ₃ –BaZrO ₃ ferroelectric thin films. <i>Journal of Materials Chemistry C</i> , 2022, 10, 7449-7459. | 5.5 | 8 |
| 76 | Capacitive micromachined ultrasonic transducer for ultra-low pressure measurement: Theoretical study. <i>AIP Advances</i> , 2015, 5, . | 1.3 | 7 |
| 77 | 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 |
| 78 | Simultaneous Measurement of Temperature and Refractive Index Using High Temperature Resistant Pure Quartz Grating Based on Femtosecond Laser and HF Etching. <i>Materials</i> , 2021, 14, 1028. | 2.9 | 7 |
| 79 | Study on the characteristics of thermo-electrodes of various deposition parameters for the flexible temperature sensor. <i>Review of Scientific Instruments</i> , 2020, 91, 125004. | 1.3 | 7 |
| 80 | Fiber Vector Magnetometer Based on Balloon-Like Fiber Structure and Magnetic Fluid. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-9. | 4.7 | 7 |
| 81 | Controlled growth of a single carbon nanotube on an AFM probe. <i>Microsystems and Nanoengineering</i> , 2021, 7, 80. | 7.0 | 7 |
| 82 | 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 |
| 83 | 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 |
| 84 | Dielectrophoretic Driving of Blood Cells in a Microchannel. <i>Biotechnology and Biotechnological Equipment</i> , 2011, 25, 2405-2411. | 1.3 | 6 |
| 85 | An ultra-high pressure sensor with cylinder structure. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 2383-2389. | 1.5 | 6 |
| 86 | Fabrication of thin film potentiometric CO ₂ sensors on differentiate substrate surfaces and their characteristics. <i>Micro and Nano Letters</i> , 2013, 8, 445-449. | 1.3 | 6 |
| 87 | Facile high-performance film thermocouple made of strontium lanthanum chromate for temperature sensing in air. <i>Journal of the American Ceramic Society</i> , 2018, 101, 4880-4886. | 3.8 | 6 |
| 88 | A MEMS accelerometer based on synchronizing DETF oscillators. , 2019, , . | | 6 |
| 89 | Wearable Tactile Sensors: Gelatin Methacryloyl-Based Tactile Sensors for Medical Wearables (Adv.) <i>Tj ETQq1 1 0.784314 rgBT /Over</i> | 14.9 | 8 |
| 90 | Advanced Biological Imaging for Intracellular Micromanipulation: Methods and Applications. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7308. | 2.5 | 6 |

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|-----|--|-----|-----------|
| 91 | The Radial Piezoelectric Response from Three-Dimensional Electrospun PVDF Micro Wall Structure. <i>Materials</i> , 2020, 13, 1368. | 2.9 | 6 |
| 92 | 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 |
| 93 | Enhancing Sunlight Control of Interfacial Magnetism by Introducing the ZnO Layer for Electron Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2018-2024. | 8.0 | 6 |
| 94 | A Terahertz Detector Based on Double-Channel GaN/AlGaN High Electronic Mobility Transistor. <i>Materials</i> , 2021, 14, 6193. | 2.9 | 6 |
| 95 | Sensitivity improvement of SAW pressure sensors based on finite element analysis. , 2016, , . | | 5 |
| 96 | Tool setting error compensation in large aspherical mirror grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 4093-4103. | 3.0 | 5 |
| 97 | Effect of heat treatment on thermoelectric properties of tungsten-rhenium thin-film thermocouples by RF magnetron sputtering. <i>AIP Advances</i> , 2018, 8, 125113. | 1.3 | 5 |
| 98 | Impact of Magnetron Sputtering Parameters on Thermoelectric Properties of Tungsten-Rhenium Thin-Film Thermocouples Sensor. <i>IEEE Sensors Journal</i> , 2018, 18, 9896-9901. | 4.7 | 5 |
| 99 | Comparison Study of Three Readout Methods for a Capacitive MEMS Accelerometer. , 2018, , . | | 5 |
| 100 | A Novel Micro-Displacement Sensor Based on Double Optical Fiber Probes Made through Photopolymer Materials. <i>Materials</i> , 2020, 13, 5475. | 2.9 | 5 |
| 101 | Photovoltaic Control of Ferromagnetism for Flexible Spintronics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41999-42006. | 8.0 | 5 |
| 102 | A High-Frequency Acceleration Sensor Based on Fiber Grating. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-8. | 4.7 | 5 |
| 103 | Noise Analysis and Performance Improvement of a MEMS Fabry-Pérot Seismic Accelerometer. <i>IEEE Sensors Journal</i> , 2022, 22, 365-372. | 4.7 | 5 |
| 104 | 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 |
| 105 | Capacitive micromachined ultrasonic transducer for ultra-low pressure detection. , 2014, , . | | 4 |
| 106 | Buckling and Delamination of Ti/Cu/Si Thin Film During Annealing. <i>Journal of Electronic Materials</i> , 2014, 43, 3351-3356. | 2.2 | 4 |
| 107 | Effect of Annealing on the Thermoelectricity Properties of the WRe ₂₆ -In ₂ O ₃ Thin Film Thermocouples. <i>Micromachines</i> , 2020, 11, 664. | 2.9 | 4 |
| 108 | Robot-aided fN ^m torque sensing within an ultrawide dynamic range. <i>Microsystems and Nanoengineering</i> , 2021, 7, 2. | 7.0 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 109 | Coupling Effects of Crosstalk and Parasitic Loss on Capacitive Micromachined Ultrasonic Transducers. IEEE Sensors Journal, 2022, 22, 3281-3297. | 4.7 | 4 |
| 110 | Parameter extraction of featured section in turbine blade inspection. , 2010, , . | | 3 |
| 111 | Design and characterization of an integrated multifunction micro sensor. Microsystem Technologies, 2012, 18, 283-294. | 2.0 | 3 |
| 112 | Effect of excess Bi ₂ O ₃ on structure and performance of ZnO-based thin film transistors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, 061206. | 1.2 | 3 |
| 113 | Fast Predicting Statistical Subsurface Damage Parameters of the K9 Sample. International Journal of Optomechatronics, 2015, 9, 248-259. | 6.6 | 3 |
| 114 | Measurement study of residual stress on tungsten-rhenium thin film thermocouples by nanoindentation technology. , 2017, , . | | 3 |
| 115 | A protected tungsten-rhenium thin film thermocouples sensor. , 2017, , . | | 3 |
| 116 | Giant enhancement on response-speed of electrospun-based UV photodetector via polydimethylsiloxane coating. , 2018, , . | | 3 |
| 117 | Capacitive micromachined ultrasonic transducers for biochemical detection with flexible high sensitivity. , 2018, , . | | 3 |
| 118 | A High-g Triaxial Piezoresistive Accelerometer with Sensing Beams in Pure Axial Deformation. , 2019, , . | | 3 |
| 119 | Characterization of the Electrical Properties of a Double Heterostructure GaN/AlGa _N Epitaxial Layer with an AlGa _N Interlayer. Journal of Electronic Materials, 2021, 50, 2521-2529. | 2.2 | 3 |
| 120 | Phase-delay induced variation of synchronization bandwidth and frequency stability in a micromechanical oscillator. Nonlinear Dynamics, 2021, 105, 2981-2994. | 5.2 | 3 |
| 121 | Improving solar control of magnetism in ternary organic photovoltaic system with enhanced photo-induced electrons doping. Nano Research, 2022, 15, 2626-2633. | 10.4 | 3 |
| 122 | Influence of surface roughness on the adhesion hysteresis of nano thin film. Micro and Nano Letters, 2019, 14, 1278-1281. | 1.3 | 3 |
| 123 | Research on the High Temperature and High Pressure Gold-Plated Fiber Grating Dual-Parameter Sensing Measurement System. Micromachines, 2022, 13, 195. | 2.9 | 3 |
| 124 | Voltage Manipulation of Synthetic Antiferromagnetism in CoFeB/Ta/CoFeB Heterostructure for Spintronic Application. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 3 |
| 125 | An improved distributed optical fiber sensor (DOFS) for monitoring long-distance buried oil pipeline leakage and intrusion. , 2009, , . | | 2 |
| 126 | Impact of line edge roughness and linewidth roughness on critical dimension variation. , 2012, , . | | 2 |

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|-----|--|-----|-----------|
| 127 | A fluid viscosity sensor with resonant trapezoidal micro cantilever. , 2013, , . | | 2 |
| 128 | Pose and position calibration of laser displacement sensor in aspheric measurement. , 2014, , . | | 2 |
| 129 | A novel piezoresistive accelerometer featuring in-plane vibration. , 2014, , . | | 2 |
| 130 | SAW assisted blood/plasma separation in microchannel with constriction-expansion transition. , 2015, , . | | 2 |
| 131 | Surface acoustic wave (SAW) - induced particle rotation and aggregation in microdroplet. , 2016, , . | | 2 |
| 132 | Biomimetics studies of <i>Salvinia molesta</i> for fabrication. Micro and Nano Letters, 2016, 11, 291-294. | 1.3 | 2 |
| 133 | Effect of annealing temperature of Bi _{1.5} Zn _{1.0} Nb _{1.5} O ₇ gate insulator on performance of ZnO based thin film transistors. Journal of Semiconductors, 2016, 37, 074007. | 3.7 | 2 |
| 134 | Different etching evolution from initial to etched ZnO nanorods on substrates of dissimilar geometries. Applied Physics A: Materials Science and Processing, 2017, 123, 1. | 2.3 | 2 |
| 135 | Mechanical properties analysis and process optimization for tungsten-rhenium thin film thermocouples sensor. , 2017, , . | | 2 |
| 136 | Coupled Piezoelectric Micromachined Ultrasonic Transducers Array with High Ultrasonic Emission Performance. , 2018, , . | | 2 |
| 137 | High-temperature Fabry-Perot interferometer based on mode analysis. Micro and Nano Letters, 2018, 13, 198-201. | 1.3 | 2 |
| 138 | Kinematic modeling of surface topography ground by an electroplated diamond wheel. International Journal of Advanced Manufacturing Technology, 2021, 114, 2753-2765. | 3.0 | 2 |
| 139 | A flexible smart glove for pressure and bending signal acquisition. , 2021, , . | | 2 |
| 140 | Large-Area and Clean Graphene Transfer on Gold-Nanopyramid-Structured Substrates: Implications for Surface-Enhanced Raman Scattering Detection. ACS Applied Nano Materials, 2022, 5, 3878-3888. | 5.0 | 2 |
| 141 | Uniform Stress Distribution of Bimorph by Arc Mechanical Stopper for Maximum Piezoelectric Vibration Energy Harvesting. Energies, 2022, 15, 3268. | 3.1 | 2 |
| 142 | Five-Frame Phase-Shifting Algorithm Based on the Immunity to Phase-Shifting Error. , 2009, , . | | 1 |
| 143 | A MEMS density sensor based on micro-rectangular cantilever. , 2010, , . | | 1 |
| 144 | A MEMS resonator-type viscosity sensor based on triangular cantilever. , 2010, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 145 | Influence of substrate surface roughness on the properties of a planar-type CO ₂ sensor using evaporated Li ₃ PO ₄ film. , 2013, , . | | 1 |
| 146 | Fabrication and characterization of Pt Archimedean-spiral interdigitated microelectrodes with containing trenches. , 2013, , . | | 1 |
| 147 | The fluid viscosity measurement based on variable cross-section MEMS cantilever under torsional excitation. , 2015, , . | | 1 |
| 148 | Fabrication of CMUTs with a low temperature wafer bonding technology. , 2015, , . | | 1 |
| 149 | Effect of joule heating on the performance of a piezoresistive micromechanical oscillator. , 2017, , . | | 1 |
| 150 | Novel Mechanical Coupling Piezoelectric Micromachined Ultrasonic Transducers Based on Base Excitation System. , 2018, , . | | 1 |
| 151 | Electrical and optical properties of metal-€sandwiched ZnO/Ti/Cu/Ti/ZnO transparent conductive thin film. Micro and Nano Letters, 2018, 13, 1511-1515. | 1.3 | 1 |
| 152 | Density Measurement Performance in Flowing Liquid Using Microcantilever-Based Resonators under Bending and Torsion Vibrations. , 2019, , . | | 1 |
| 153 | Effect of Oxidation on Conductivity Characteristics of Tungsten-Rhenium Thin-Film Thermocouples Sensor. , 2019, , . | | 1 |
| 154 | A novel microsensor for measuring thermal conductivity of fluid based on three omega method. Review of Scientific Instruments, 2019, 90, 015002. | 1.3 | 1 |
| 155 | Multiferroic Heterostructures: Ultraflexible and Malleable Fe/BaTiO ₃ Multiferroic Heterostructures for Functional Devices (Adv. Funct. Mater. 16/2021). Advanced Functional Materials, 2021, 31, 2170111. | 14.9 | 1 |
| 156 | A Tunable Quasi-Zero Stiffness Mechanism for Thermal Compensation of a MEMS Gravimeter. , 2021, , . | | 1 |
| 157 | Capacitance Detection Based on High Order Synchronization Sensing. IEEE Sensors Journal, 2021, 21, 16780-16789. | 4.7 | 1 |
| 158 | Au-assisted Polymerization of Conductive Poly(N-phenylglycine) as High-performance Positive Electrodes for Asymmetric Supercapacitors. Nanotechnology, 2021, 33, . | 2.6 | 1 |
| 159 | Flexible carbon monoxide sensor for environmental detection of small-€scale robot. Micro and Nano Letters, 2020, 15, 949-953. | 1.3 | 1 |
| 160 | State recognition of motor pump based on multimodal homologous features and XGBoost. , 2021, , . | | 1 |
| 161 | Effect of Joule heating on the performance of micromechanical piezoresistive oscillator. Sensors and Actuators A: Physical, 2022, 333, 113234. | 4.1 | 1 |
| 162 | Dislocation Defect Layer-Induced Magnetic Bi-states Phenomenon in Epitaxial La _{0.7} Sr _{0.3} MnO ₃ (111) Thin Films. ACS Applied Materials & Interfaces, 2021, , . | 8.0 | 1 |

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