# Junbo Wang

## List of Publications by Year
## in descending order



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|---|---|---|---|
| 65 papers | 966 citations | 516710 16 h-index | 477307 29 g-index |
| 65 all docs | 65 docs citations | 65 times ranked | 814 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A Resonant High-Pressure Sensor Based on Integrated Resonator-Diaphragm Structure. IEEE Sensors Journal, 2022, 22, 3920-3927. | 4.7 | 3 |
| 2 | Advance of microfluidic constriction channel system of measuring <scp>singleâ€cell</scp> cortical tension/specific capacitance of membrane and conductivity of cytoplasm. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2022, 101, 434-447. | 1.5 | 6 |
| 3 | A MEMS-Based Co-Oscillating Electrochemical Vector Hydrophone. Micromachines, 2022, 13, 143. | 2.9 | 0 |
| 4 | A MEMS Electrochemical Angular Accelerometer Leveraging Silicon-Based Three-Electrode Structure. Micromachines, 2022, 13, 186. | 2.9 | 2 |
| 5 | Microfluidic Quantitative Flow Cytometer With Light Modulation. IEEE Sensors Journal, 2022, 22, 3009-3016. | 4.7 | 2 |
| 6 | A Mems Based Electrochemical Angular Accelerometer with a High-Integrated Sensing Unit. , 2022, , . | | 0 |
| 7 | A Bulk-Micromachined Resonant Differential Pressure Microsensor Insensitive to Temperature and Static Pressure. , 2022, , . | | 3 |
| 8 | A Resonant Low-Pressure Microsensor With Low Temperature Disturbance. IEEE Sensors Journal, 2022, 22, 10404-10410. | 4.7 | 2 |
| 9 | A Low-Temperature-Sensitivity Resonant Pressure Microsensor Based on Eutectic Bonding. IEEE Sensors Journal, 2022, 22, 9321-9328. | 4.7 | 3 |
| 10 | A MEMS Electrochemical Seismometer Based on the Integrated Structure of Centrosymmetric Four Electrodes. Micromachines, 2022, 13, 354. | 2.9 | 0 |
| 11 | Reduction of Temperature Sensitivity for Resonant Micro-Pressure Sensor Using Glass-Silicon Coupling Wafer Packaging. IEEE Sensors Journal, 2022, 22, 6410-6417. | 4.7 | 1 |
| 12 | A Resonant Differential Pressure Microsensor With Stress Isolation and Au-Au Bonding in Packaging. IEEE Transactions on Electron Devices, 2022, 69, 2023-2029. | 3.0 | 6 |
| 13 | Development of Microfluidic System Enabling High-Throughput Characterization of Multiple Biophysical Parameters of Single Cells. IEEE Transactions on Electron Devices, 2022, 69, 2015-2022. | 3.0 | 3 |
| 14 | Development of droplet microfluidics capable of quantitative estimation of single-cell multiplex proteins. Journal of Micromechanics and Microengineering, 2022, 32, 024002. | 2.6 | 5 |
| 15 | An Electrostatic Comb Excitation Resonant Pressure Sensor for High Pressure Applications. IEEE Sensors Journal, 2022, 22, 15759-15768. | 4.7 | 3 |
| 16 | A Microfluidic Platform for Characterizing Single-Cell Intrinsic Bioelectrical Properties With Large Sample Size. IEEE Transactions on Electron Devices, 2022, 69, 5177-5184. | 3.0 | 1 |
| 17 | A new electrochemical angular microaccelerometer with integrated sensitive electrodes perpendicular to flow channels. Microsystems and Nanoengineering, 2022, 8, . | 7.0 | 2 |
| 18 | An Electrochemical Angular Micro-Accelerometer Based on Miniaturized Planar Electrodes Positioned in Parallel. IEEE Sensors Journal, 2021, 21, 21305-21313. | 4.7 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The Design and Fabrication of the High Integrated Sensitive Electrodes by Adopting the Anodic Bonding Technology for the Electrochemical Seismic Sensors. , 2021, , . | | 5 |
| 20 | Quantification of Single-Cell Cortical Tension Using Multiple Constriction Channels. IEEE Sensors Journal, 2021, 21, 7260-7267. | 4.7 | 4 |
| 21 | A droplet-based microfluidic flow cytometry enabling absolute quantification of single-cell proteins leveraging constriction channel. Microfluidics and Nanofluidics, 2021, 25, 1. | 2.2 | 10 |
| 22 | A High-Sensitivity Resonant Differential Pressure Microsensor Based on Bulk Micromachining. IEEE Sensors Journal, 2021, 21, 8927-8934. | 4.7 | 19 |
| 23 | Temperature Compensation of the MEMS-Based Electrochemical Seismic Sensors. Micromachines, 2021, 12, 387. | 2.9 | 4 |
| 24 | A Micromachined Electrochemical Angular Accelerometer Based on Interdigital Electrodes. , 2021, , . | | 2 |
| 25 | A MEMS-Based Electrochemical Angular Accelerometer With a Force-Balanced Negative Feedback. IEEE Sensors Journal, 2021, 21, 15972-15978. | 4.7 | 12 |
| 26 | MEMS-Based Integrated Triaxial Electrochemical Seismometer. Micromachines, 2021, 12, 1156. | 2.9 | 3 |
| 27 | A Resonant Differential Pressure Microsensor With Temperature and Static Pressure Compensations. IEEE Sensors Journal, 2021, 21, 19881-19888. | 4.7 | 6 |
| 28 | A Micromachined Resonant Low-Pressure Sensor With High Quality Factor. IEEE Sensors Journal, 2021, 21, 19840-19846. | 4.7 | 8 |
| 29 | A Micromachined Resonant Micro-Pressure Sensor. IEEE Sensors Journal, 2021, 21, 19789-19796. | 4.7 | 5 |
| 30 | The MEMS-Based Electrochemical Seismic Sensor With Integrated Sensitive Electrodes by Adopting Anodic Bonding Technology. IEEE Sensors Journal, 2021, 21, 19833-19839. | 4.7 | 6 |
| 31 | Microfluidic Cytometry for Highâ€Throughput Characterization of Single Cell Cytoplasmic Viscosity Using Crossing Constriction Channels. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 630-637. | 1.5 | 11 |
| 32 | A novel microfluidic flow-cytometry for counting numbers of single-cell Î²-actins. Nami Jishu Yu Jingmi Gongcheng/Nanotechnology and Precision Engineering, 2020, 3, 156-161. | 3.2 | 2 |
| 33 | Development of microfluidic platform capable of characterizing cytoplasmic viscosity, cytoplasmic conductivity and specific membrane capacitance of single cells. Microfluidics and Nanofluidics, 2020, 24, 1. | 2.2 | 6 |
| 34 | Development of microfluidic platform to high-throughput quantify single-cell intrinsic bioelectrical markers of tumor cell lines, subtypes and patient tumor cells. Sensors and Actuators B: Chemical, 2020, 317, 128231. | 7.8 | 20 |
| 35 | A MEMS-Based Electrochemical Angular Accelerometer With Integrated Plane Electrodes for Seismic Motion Monitoring. IEEE Sensors Journal, 2020, 20, 10469-10475. | 4.7 | 17 |
| 36 | The Electrochemical Seismometer Based on Fine-Tune Sensing Electrodes for Undersea Exploration. IEEE Sensors Journal, 2020, 20, 8194-8202. | 4.7 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Wireless Passive Intracranial Pressure Sensor Based on Vacuum Packaging. IEEE Sensors Journal, 2020, 20, 11247-11255. | 4.7 | 9 |
| 38 | Development of microfluidic platform capable of high-throughput absolute quantification of single-cell multiple intracellular proteins from tumor cell lines and patient tumor samples. Biosensors and Bioelectronics, 2020, 155, 112097. | 10.1 | 17 |
| 39 | A Micromachined Resonant Differential Pressure Sensor. IEEE Transactions on Electron Devices, 2020, 67, 640-645. | 3.0 | 21 |
| 40 | Advances of Single-Cell Protein Analysis. Cells, 2020, 9, 1271. | 4.1 | 27 |
| 41 | Microelectromechanical System-Based Electrochemical Seismometers with Two Pairs of Electrodes Integrated on One Chip. Sensors, 2019, 19, 3953. | 3.8 | 7 |
| 42 | Crossing constriction channel-based microfluidic cytometry capable of electrically phenotyping large populations of single cells. Analyst, The, 2019, 144, 1008-1015. | 3.5 | 17 |
| 43 | Optimization of LC sensor enabling wireless passive intracranial pressure monitoring. Microsystem Technologies, 2019, 25, 3437-3446. | 2.0 | 3 |
| 44 | The Electrochemical Seismometer Based on a Novel Designed Sensing Electrode for Undersea Exploration. , 2019, , . | | 3 |
| 45 | Development of microfluidic impedance cytometry enabling the quantification of specific membrane capacitance and cytoplasm conductivity from 100,000 single cells. Biosensors and Bioelectronics, 2018, 111, 138-143. | 10.1 | 74 |
| 46 | Microfluidic Analyzer Enabling Quantitative Measurements of Specific Intracellular Proteins at the Single-Cell Level. Micromachines, 2018, 9, 588. | 2.9 | 2 |
| 47 | Absolute Copy Numbers of Î²-Actin Proteins Collected from 10,000 Single Cells. Micromachines, 2018, 9, 254. | 2.9 | 5 |
| 48 | A Microfluidic Fluorescent Flow Cytometry Capable of Quantifying Cell Sizes and Numbers of Specific Cytosolic Proteins. Scientific Reports, 2018, 8, 14229. | 3.3 | 14 |
| 49 | Specific membrane capacitance, cytoplasm conductivity and instantaneous Youngâ€™s modulus of single tumour cells. Scientific Data, 2017, 4, 170015. | 5.3 | 37 |
| 50 | A low-sample-loss microfluidic system for the quantification of size-independent cellular electrical propertyâ€"Its demonstration for the identification and characterization of circulating tumour cells (CTCs). Sensors and Actuators B: Chemical, 2017, 246, 29-37. | 7.8 | 28 |
| 51 | A High-Consistency Broadband MEMS-Based Electrochemical Seismometer With Integrated Planar Microelectrodes. IEEE Transactions on Electron Devices, 2017, 64, 3829-3835. | 3.0 | 8 |
| 52 | A microfluidic flow cytometer enabling absolute quantification of single-cell intracellular proteins. Lab on A Chip, 2017, 17, 3129-3137. | 6.0 | 41 |
| 53 | Membrane capacitance of thousands of single white blood cells. Journal of the Royal Society Interface, 2017, 14, 20170717. | 3.4 | 14 |
| 54 | A microfabricated 96â€well woundâ€healing assay. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 1192-1199. | 1.5 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | An Electrochemical, Low-Frequency Seismic Micro-Sensor Based on MEMS with a Force-Balanced Feedback System. Sensors, 2017, 17, 2103. | 3.8 | 14 |
| 56 | Development of Microfluidic Systems Enabling High-Throughput Single-Cell Protein Characterization. Sensors, 2016, 16, 232. | 3.8 | 22 |
| 57 | A MEMS based electrochemical seismometer with a novel integrated sensing unit. , 2016, , . | | 3 |
| 58 | Microelectromechanical Systems-Based Electrochemical Seismic Sensors With Insulating Spacers Integrated Electrodes for Planetary Exploration. IEEE Sensors Journal, 2016, 16, 650-653. | 4.7 | 26 |
| 59 | A Resonant Pressure Microsensor Capable of Self-Temperature Compensation. Sensors, 2015, 15, 10048-10058. | 3.8 | 37 |
| 60 | Microfluidic Impedance Flow Cytometry Enabling High-Throughput Single-Cell Electrical Property Characterization. International Journal of Molecular Sciences, 2015, 16, 9804-9830. | 4.1 | 125 |
| 61 | A MEMS Based Electrochemical Vibration Sensor for Seismic Motion Monitoring. Journal of Microelectromechanical Systems, 2014, 23, 92-99. | 2.5 | 57 |
| 62 | A micro electrochemical seismic sensor based on MEMS technologies. Sensors and Actuators A: Physical, 2013, 202, 85-89. | 4.1 | 28 |
| 63 | A microfluidic system enabling continuous characterization of specific membrane capacitance and cytoplasm conductivity of single cells in suspension. Biosensors and Bioelectronics, 2013, 43, 304-307. | 10.1 | 55 |
| 64 | A microfluidic system for cell type classification based on cellular size-independent electrical properties. Lab on A Chip, 2013, 13, 2272. | 6.0 | 53 |
| 65 | A MEMS based Seismic Sensor using the Electrochemical Approach. Procedia Engineering, 2012, 47, 362-365. | 1.2 | 14 |