

Jian Chen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Microfluidic Impedance Flow Cytometry Enabling High-Throughput Single-Cell Electrical Property Characterization. <i>International Journal of Molecular Sciences</i> , 2015, 16, 9804-9830.	4.1	125
2	Development of Droplet Microfluidics Enabling High-Throughput Single-Cell Analysis. <i>Molecules</i> , 2016, 21, 881.	3.8	82
3	A High-Q Resonant Pressure Microsensor with Through-Glass Electrical Interconnections Based on Wafer-Level MEMS Vacuum Packaging. <i>Sensors</i> , 2014, 14, 24244-24257.	3.8	45
4	A microfluidic flow cytometer enabling absolute quantification of single-cell intracellular proteins. <i>Lab on A Chip</i> , 2017, 17, 3129-3137.	6.0	41
5	A Resonant Pressure Microsensor Capable of Self-Temperature Compensation. <i>Sensors</i> , 2015, 15, 10048-10058.	3.8	37
6	Characterization of cytoplasmic viscosity of hundreds of single tumour cells based on micropipette aspiration. <i>Royal Society Open Science</i> , 2019, 6, 181707.	2.4	33
7	Electrical Property Characterization of Neural Stem Cells in Differentiation. <i>PLoS ONE</i> , 2016, 11, e0158044.	2.5	29
8	Constriction Channel Based Single-Cell Mechanical Property Characterization. <i>Micromachines</i> , 2015, 6, 1794-1804.	2.9	27
9	A Piezoresistive Pressure Sensor with Optimized Positions and Thickness of Piezoresistors. <i>Micromachines</i> , 2021, 12, 1095.	2.9	27
10	Advances of Single-Cell Protein Analysis. <i>Cells</i> , 2020, 9, 1271.	4.1	27
11	A Lateral Differential Resonant Pressure Microsensor Based on SOI-Glass Wafer-Level Vacuum Packaging. <i>Sensors</i> , 2015, 15, 24257-24268.	3.8	20
12	Development of microfluidic platform to high-throughput quantify single-cell intrinsic bioelectrical markers of tumor cell lines, subtypes and patient tumor cells. <i>Sensors and Actuators B: Chemical</i> , 2020, 317, 128231.	7.8	20
13	Simultaneous Characterization of Instantaneous Young's Modulus and Specific Membrane Capacitance of Single Cells Using a Microfluidic System. <i>Sensors</i> , 2015, 15, 2763-2773.	3.8	19
14	A Resonant Pressure Microsensor Based on Double-Ended Tuning Fork and Electrostatic Excitation/Piezoresistive Detection. <i>Sensors</i> , 2018, 18, 2494.	3.8	19
15	A High-Sensitivity Resonant Differential Pressure Microsensor Based on Bulk Micromachining. <i>IEEE Sensors Journal</i> , 2021, 21, 8927-8934.	4.7	19
16	Crossing constriction channel-based microfluidic cytometry capable of electrically phenotyping large populations of single cells. <i>Analyst</i> , 2019, 144, 1008-1015.	3.5	17
17	A Resonant Pressure Microsensor with the Measurement Range of 1 MPa Based on Sensitivities Balanced Dual Resonators. <i>Sensors</i> , 2019, 19, 2272.	3.8	17
18	Membrane capacitance of thousands of single white blood cells. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170717.	3.4	14

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19	An Electrochemical, Low-Frequency Seismic Micro-Sensor Based on MEMS with a Force-Balanced Feedback System. <i>Sensors</i> , 2017, 17, 2103.	3.8	14
20	Classification of Cells with Membrane Staining and/or Fixation Based on Cellular Specific Membrane Capacitance and Cytoplasm Conductivity. <i>Micromachines</i> , 2015, 6, 163-171.	2.9	13
21	A Resonant Pressure Microsensor with a Wide Pressure Measurement Range. <i>Micromachines</i> , 2021, 12, 382.	2.9	12
22	A MEMS-Based Electrochemical Angular Accelerometer With a Force-Balanced Negative Feedback. <i>IEEE Sensors Journal</i> , 2021, 21, 15972-15978.	4.7	12
23	A Resonant Pressure Sensor Based upon Electrostatically Comb Driven and Piezoresistively Sensed Lateral Resonators. <i>Micromachines</i> , 2019, 10, 460.	2.9	11
24	A Temperature-Insensitive Resonant Pressure Micro Sensor Based on Silicon-on-Glass Vacuum Packaging. <i>Sensors</i> , 2019, 19, 3866.	3.8	11
25	Microfluidic Cytometry for High-Throughput Characterization of Single Cell Cytoplasmic Viscosity Using Crossing Constriction Channels. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020, 97, 630-637.	1.5	11
26	Developments of Conventional and Microfluidic Flow Cytometry Enabling High-Throughput Characterization of Single Cells. <i>Biosensors</i> , 2022, 12, 443.	4.7	11
27	A droplet-based microfluidic flow cytometry enabling absolute quantification of single-cell proteins leveraging constriction channel. <i>Microfluidics and Nanofluidics</i> , 2021, 25, 1.	2.2	10
28	Characterization of Single-Nucleus Electrical Properties by Microfluidic Constriction Channel. <i>Micromachines</i> , 2019, 10, 740.	2.9	9
29	A Flexible Sensing Unit Manufacturing Method of Electrochemical Seismic Sensor. <i>Sensors</i> , 2018, 18, 1165.	3.8	8
30	A Micromachined Resonant Low-Pressure Sensor With High Quality Factor. <i>IEEE Sensors Journal</i> , 2021, 21, 19840-19846.	4.7	8
31	Microelectromechanical System-Based Electrochemical Seismometers with Two Pairs of Electrodes Integrated on One Chip. <i>Sensors</i> , 2019, 19, 3953.	3.8	7
32	A Resonant Pressure Microsensor with Temperature Compensation Method Based on Differential Outputs and a Temperature Sensor. <i>Micromachines</i> , 2020, 11, 1022.	2.9	7
33	An Electrochemical Angular Micro-Accelerometer Based on Miniaturized Planar Electrodes Positioned in Parallel. <i>IEEE Sensors Journal</i> , 2021, 21, 21305-21313.	4.7	7
34	Inherent bioelectrical parameters of hundreds of thousands of single leukocytes based on impedance flow cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2022, 101, 630-638.	1.5	7
35	The Effects of Profile Errors of Microlens Surfaces on Laser Beam Homogenization. <i>Micromachines</i> , 2017, 8, 50.	2.9	6
36	Development of microfluidic platform capable of characterizing cytoplasmic viscosity, cytoplasmic conductivity and specific membrane capacitance of single cells. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	2.2	6

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37	A Resonant Differential Pressure Microsensor With Temperature and Static Pressure Compensations. IEEE Sensors Journal, 2021, 21, 19881-19888.	4.7	6
38	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
39	Advance of microfluidic constriction channel system of measuring <scp>singleâ€œcell</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
40	A resonant high-pressure sensor based on dual cavities. Journal of Micromechanics and Microengineering, 2021, 31, 124002.	2.6	6
41	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
42	Absolute Copy Numbers of \hat{I}^2 -Actin Proteins Collected from 10,000 Single Cells. Micromachines, 2018, 9, 254.	2.9	5
43	A Monolithic Electrochemical Micro Seismic Sensor Capable of Monitoring Three-Dimensional Vibrations. Sensors, 2018, 18, 1047.	3.8	5
44	Dopamine and Striatal Neuron Firing Respond to Frequency-Dependent DBS Detected by Microelectrode Arrays in the Rat Model of Parkinsonâ€™s Disease. Biosensors, 2020, 10, 136.	4.7	5
45	MEMS-Based Electrochemical Seismometer Relying on a CAC Integrated Three-Electrode Structure. Sensors, 2021, 21, 809.	3.8	5
46	Classification of tumor subtypes leveraging <scp>constrictionâ€™channel</scp> based impedance flow cytometry and optical imaging. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2021, 99, 1114-1122.	1.5	5
47	A Micromachined Resonant Micro-Pressure Sensor. IEEE Sensors Journal, 2021, 21, 19789-19796.	4.7	5
48	Development of droplet microfluidics capable of quantitative estimation of single-cell multiplex proteins. Journal of Micromechanics and Microengineering, 2022, 32, 024002.	2.6	5
49	Inherent singleâ€œcell bioelectrical parameters of thousands of neutrophils, eosinophils and basophils derived from impedance flow cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2022, 101, 639-647.	1.5	5
50	The Instrumentation of a Microfluidic Analyzer Enabling the Characterization of the Specific Membrane Capacitance, Cytoplasm Conductivity, and Instantaneous Youngâ€™s Modulus of Single Cells. International Journal of Molecular Sciences, 2017, 18, 1158.	4.1	4
51	Generation of Color Images by Utilizing a Single Composite Diffractive Optical Element. Micromachines, 2018, 9, 508.	2.9	4
52	Quantification of Single-Cell Cortical Tension Using Multiple Constriction Channels. IEEE Sensors Journal, 2021, 21, 7260-7267.	4.7	4
53	Temperature Compensation of the MEMS-Based Electrochemical Seismic Sensors. Micromachines, 2021, 12, 387.	2.9	4
54	MEMS-Based Electrochemical Seismometer with a Sensing Unit Integrating Four Electrodes. Micromachines, 2021, 12, 699.	2.9	4

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55	MEMS-Based Integrated Triaxial Electrochemical Seismometer. <i>Micromachines</i> , 2021, 12, 1156.	2.9	3
56	A Resonant High-Pressure Sensor Based on Integrated Resonator-Diaphragm Structure. <i>IEEE Sensors Journal</i> , 2022, 22, 3920-3927.	4.7	3
57	Development of microfluidic flow cytometry capable of characterization of single-cell intrinsic structural and electrical parameters. <i>Journal of Micromechanics and Microengineering</i> , 2022, 32, 035007.	2.6	3
58	A Low-Temperature-Sensitivity Resonant Pressure Microsensor Based on Eutectic Bonding. <i>IEEE Sensors Journal</i> , 2022, 22, 9321-9328.	4.7	3
59	Development of Microfluidic System Enabling High-Throughput Characterization of Multiple Biophysical Parameters of Single Cells. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 2015-2022.	3.0	3
60	An Electrostatic Comb Excitation Resonant Pressure Sensor for High Pressure Applications. <i>IEEE Sensors Journal</i> , 2022, 22, 15759-15768.	4.7	3
61	Microfluidic Analyzer Enabling Quantitative Measurements of Specific Intracellular Proteins at the Single-Cell Level. <i>Micromachines</i> , 2018, 9, 588.	2.9	2
62	Resonant Pressure Micro Sensors Based on Dual Double Ended Tuning Fork Resonators. <i>Micromachines</i> , 2019, 10, 560.	2.9	2
63	A MEMS Electrochemical Angular Accelerometer Leveraging Silicon-Based Three-Electrode Structure. <i>Micromachines</i> , 2022, 13, 186.	2.9	2
64	Modeling of the Electrochemical Motion Sensor Conversion Factor at High Frequencies. <i>Micromachines</i> , 2022, 13, 153.	2.9	2
65	Microfluidic Quantitative Flow Cytometer With Light Modulation. <i>IEEE Sensors Journal</i> , 2022, 22, 3009-3016.	4.7	2
66	A Resonant Low-Pressure Microsensor With Low Temperature Disturbance. <i>IEEE Sensors Journal</i> , 2022, 22, 10404-10410.	4.7	2
67	A new electrochemical angular microaccelerometer with integrated sensitive electrodes perpendicular to flow channels. <i>Microsystems and Nanoengineering</i> , 2022, 8, .	7.0	2
68	A Double-Ended Tuning Fork Based Resonant Pressure Micro-Sensor Relying on Electrostatic Excitation and Piezoresistive Detection. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	1
69	An Analytical Method for Modelling Pull-In Effect during Anodic Bonding. <i>Proceedings (mdpi)</i> , 2018, 2, 969.	0.2	1
70	Extract of the Blood Circulation-Promoting Recipe-84 Can Protect Rat Retinas by Inhibiting the β -Catenin Signaling Pathway. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2712.	4.1	1
71	Reduction of Temperature Sensitivity for Resonant Micro-Pressure Sensor Using Glass-Silicon Coupling Wafer Packaging. <i>IEEE Sensors Journal</i> , 2022, 22, 6410-6417.	4.7	1
72	Finite element simulation of a viscoelastic cell entering a cylindrical channel: Effects of frictional contact. <i>Mechanics of Materials</i> , 2022, 167, 104263.	3.2	1

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73	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
74	A MEMS-Based Co-Oscillating Electrochemical Vector Hydrophone. Micromachines, 2022, 13, 143.	2.9	0
75	A MEMS Electrochemical Seismometer Based on the Integrated Structure of Centrosymmetric Four Electrodes. Micromachines, 2022, 13, 354.	2.9	0