

# Tao Sun

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

1,596  
citations

687363

13  
h-index

1058476

14  
g-index

20  
all docs

20  
docs citations

20  
times ranked

1649  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-cell microfluidic impedance cytometry: a review. <i>Microfluidics and Nanofluidics</i> , 2010, 8, 423-443.	2.2	469
2	Single cell dielectric spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 61-70.	2.8	365
3	Dielectric spectroscopy of single cells: time domain analysis using Maxwell's mixture equation. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1-8.	2.8	122
4	High speed multi-frequency impedance analysis of single particles in a microfluidic cytometer using maximum length sequences. <i>Lab on A Chip</i> , 2007, 7, 1034.	6.0	107
5	On-chip electrical impedance tomography for imaging biological cells. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1109-1115.	10.1	83
6	Broadband single cell impedance spectroscopy using maximum length sequences: theoretical analysis and practical considerations. <i>Measurement Science and Technology</i> , 2007, 18, 2859-2868.	2.6	75
7	ANALYTICAL AND NUMERICAL MODELING METHODS FOR IMPEDANCE ANALYSIS OF SINGLE CELLS ON-CHIP. <i>Nano</i> , 2008, 03, 55-63.	1.0	65
8	Analytical solutions of ac electrokinetics in interdigitated electrode arrays: Electric field, dielectrophoretic and traveling-wave dielectrophoretic forces. <i>Physical Review E</i> , 2007, 76, 046610.	2.1	64
9	On-chip epithelial barrier function assays using electrical impedance spectroscopy. <i>Lab on A Chip</i> , 2010, 10, 1611.	6.0	54
10	Impedance spectroscopy using maximum length sequences: Application to single cell analysis. <i>Review of Scientific Instruments</i> , 2007, 78, 054301.	1.3	50
11	Single-Colloidal Particle Impedance Spectroscopy: Complete Equivalent Circuit Analysis of Polyelectrolyte Microcapsules. <i>Langmuir</i> , 2010, 26, 3821-3828.	3.5	48
12	Digital signal processing methods for impedance microfluidic cytometry. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 179-187.	2.2	42
13	Image-Based Single-Cell Sorting via Dual-Photopolymerized Microwell Arrays. <i>Analytical Chemistry</i> , 2014, 86, 977-981.	6.5	23
14	Single cell imaging using electrical impedance tomography. , 2009, , .		10
15	Label-Free Differential Leukocyte Counts Using a Microfabricated, Single-Cell Impedance Spectrometer. , 2007, , .		7
16	Analytical solutions for the electric field and dielectrophoretic force in a dielectrophoretic focusing electrode structure. <i>Applied Physics Letters</i> , 2008, 92, 173901.	3.3	7
17	AC Electrokinetic Micro- and Nano-particle Manipulation and Characterization. , 2011, , 1-28.		5
18	Adaptive line enhancer assisted single cell identification in a pseudorandom noise-stimulated microflow-cytometry. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
19	Microfluidic Impedance Cytometry: Measuring Single Cells at High Speed. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 507-527.	0.5	0
20	Electrical Impedance Tomography for Single-Cell Imaging. , 2016, , 969-976.		0