

Tao Sun

List of Publications by Year in descending order

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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	Electrical Impedance Tomography for Single-Cell Imaging. , 2016, , 969-976.		0
2	Image-Based Single-Cell Sorting via Dual-Photopolymerized Microwell Arrays. Analytical Chemistry, 2014, 86, 977-981.	6.5	23
3	AC Electrokinetic Micro- and Nano-particle Manipulation and Characterization. , 2011, , 1-28.		5
4	On-chip electrical impedance tomography for imaging biological cells. Biosensors and Bioelectronics, 2010, 25, 1109-1115.	10.1	83
5	Single-cell microfluidic impedance cytometry: a review. Microfluidics and Nanofluidics, 2010, 8, 423-443.	2.2	469
6	Single-Colloidal Particle Impedance Spectroscopy: Complete Equivalent Circuit Analysis of Polyelectrolyte Microcapsules. Langmuir, 2010, 26, 3821-3828.	3.5	48
7	On-chip epithelial barrier function assays using electrical impedance spectroscopy. Lab on A Chip, 2010, 10, 1611.	6.0	54
8	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
9	Digital signal processing methods for impedance microfluidic cytometry. Microfluidics and Nanofluidics, 2009, 6, 179-187.	2.2	42
10	Single cell imaging using electrical impedance tomography. , 2009, , .		10
11	ANALYTICAL AND NUMERICAL MODELING METHODS FOR IMPEDANCE ANALYSIS OF SINGLE CELLS ON-CHIP. Nano, 2008, 03, 55-63.	1.0	65
12	Adaptive line enhancer assisted single cell identification in a pseudorandom noise-stimulated microflow-cytometry. , 2008, , .		0
13	Analytical solutions for the electric field and dielectrophoretic force in a dielectrophoretic focusing electrode structure. Applied Physics Letters, 2008, 92, 173901.	3.3	7
14	Label-Free Differential Leukocyte Counts Using a Microfabricated, Single-Cell Impedance Spectrometer. , 2007, , .		7
15	Dielectric spectroscopy of single cells: time domain analysis using Maxwell's mixture equation. Journal Physics D: Applied Physics, 2007, 40, 1-8.	2.8	122
16	Single cell dielectric spectroscopy. Journal Physics D: Applied Physics, 2007, 40, 61-70.	2.8	365
17	Broadband single cell impedance spectroscopy using maximum length sequences: theoretical analysis and practical considerations. Measurement Science and Technology, 2007, 18, 2859-2868.	2.6	75
18	Impedance spectroscopy using maximum length sequences: Application to single cell analysis. Review of Scientific Instruments, 2007, 78, 054301.	1.3	50

#	ARTICLE	IF	CITATIONS
19	High speed multi-frequency impedance analysis of single particles in a microfluidic cytometer using maximum length sequences. Lab on A Chip, 2007, 7, 1034.	6.0	107
20	Analytical solutions of ac electrokinetics in interdigitated electrode arrays: Electric field, dielectrophoretic and traveling-wave dielectrophoretic forces. Physical Review E, 2007, 76, 046610.	2.1	64