Jia Liu

List of Publications by Year
in descending order

21 papers	296 citations	1051969 10 h-index	1113639 15 g-index
23 all docs	23 docs citations	23 times ranked	314 citing authors

#	Article	IF	Citations
1	Blood-Coated Sensor for High-Throughput Ptychographic Cytometry on a Blu-ray Disc. ACS Sensors, 2022, 7, 1058-1067.	4.0	19
2	Dielectric spectroscopy of red blood cells in sickle cell disease. Electrophoresis, 2021, 42, 667-675.	1.3	11
3	<i>In vitro</i> assay for single-cell characterization of impaired deformability in red blood cells under recurrent episodes of hypoxia. Lab on A Chip, 2021, 21, 3458-3470.	3.1	26
4	High-Throughput Functional Characterization of Visceral Afferents by Optical Recordings From Thoracolumbar and Lumbosacral Dorsal Root Ganglia. Frontiers in Neuroscience, 2021, 15, 657361.	1.4	2
5	Targeting Two-Pore-Domain Potassium Channels by Mechanical Stretch Instantaneously Modulates Action Potential Transmission in Mouse Sciatic Nerves. ACS Chemical Neuroscience, 2021, 12, 3558-3566.	1.7	2
6	Optimization of in vitro trophoblast assay for real-time impedimetric sensing of trophoblast-erythrocyte interactions in Plasmodium falciparum malaria. Analytical and Bioanalytical Chemistry, 2020, 412, 3915-3923.	1.9	2
7	Mechanical fatigue of human red blood cells. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19828-19834.	3.3	44
8	Biosensors for Detection of Human Placental Pathologies: A Review of Emerging Technologies and Current Trends. Translational Research, 2019, 213, 23-49.	2.2	23
9	Electrical Impedance Characterization of Erythrocyte Response to Cyclic Hypoxia in Sickle Cell Disease. ACS Sensors, 2019, 4, 1783-1790.	4.0	25
10	Development of a Low-Cost Electrical Impedance-Based Microflow Cytometer. Blood, 2019, 134, 4665-4665.	0.6	1
11	Electrical impedance microflow cytometry with oxygen control for detection of sickle cells. Sensors and Actuators B: Chemical, 2018, 255, 2392-2398.	4.0	45
12	Continuous Cell Sorting by Dielectrophoresis in a Straight Microfluidic Channel. , 2018, , .		2
13	Modeling erythrocyte electrodeformation in response to amplitude modulated electric waveforms. Scientific Reports, 2018, 8, 10224.	1.6	18
14	Erythrocyte Membrane Failure by Electromechanical Stress. Applied Sciences (Switzerland), 2018, 8, 174.	1.3	7
15	Dielectrophoresis Testing of Nonlinear Viscoelastic Behaviors of Human Red Blood Cells. Micromachines, 2018, 9, 21.	1.4	21
16	Dynamic fatigue measurement of human erythrocytes using dielectrophoresis. Acta Biomaterialia, 2017, 57, 352-362.	4.1	41
17	Experimental Electromechanics of Red Blood Cells Using Dielectrophoresis-Based Microfluidics. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 129-134.	0.3	3
18	Rheology of Soft and Rigid Micro Particles in Curved Microfluidic Channels. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 83-87.	0.3	0

#	Article	IF	Citations
19	Measurement of Electrical Properties of Sickle Cells From Electrical Impedance of Cell Suspension. , 2017, , .		2
20	Electrical Equivalent Circuit Model of Sickle Cell. , 2017, , .		1
21	Formation and Storage of on Demand Water-in-oil Picoliter Droplets Actuated by Microfluidic Pulse Inertia Force. International Journal of Materials Mechanics and Manufacturing, 2015, 3, 187-190.	0.2	0