

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45
papers

729
citations

15
h-index

26
g-index

51
ext. papers

979
ext. citations

5.1
avg, IF

4.57
L-index

#	Paper	IF	Citations
45	Advances in healthcare wearable devices. <i>Npj Flexible Electronics</i> , 2021 , 5,	10.7	56
44	A portable impedance microflow cytometer for measuring cellular response to hypoxia. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 4041-4051	4.9	1
43	An impedimetric assay for the identification of abnormal mitochondrial dynamics in living cells. <i>Electrophoresis</i> , 2021 , 42, 163-170	3.6	1
42	Dielectric spectroscopy of red blood cells in sickle cell disease. <i>Electrophoresis</i> , 2021 , 42, 667-675	3.6	4
41	assay for single-cell characterization of impaired deformability in red blood cells under recurrent episodes of hypoxia. <i>Lab on A Chip</i> , 2021 , 21, 3458-3470	7.2	4
40	Biomechanical Testing of Human Red Blood Cells Under Controlled Oxygen Tension. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2021 , 63-65	0.3	
39	Rapid Characterization of Water Diffusion in Polymer Specimens Using a Droplet-Based Method. <i>Langmuir</i> , 2020 , 36, 7309-7314	4	1
38	Smartphone-based sickle cell disease detection and monitoring for point-of-care settings. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112417	11.8	15
37	Optimization of in vitro trophoblast assay for real-time impedimetric sensing of trophoblast-erythrocyte interactions in Plasmodium falciparum malaria. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 3915-3923	4.4	0
36	Modeling of water wicking along fiber/matrix interface voids in unidirectional carbon/vinyl ester composites. <i>Microfluidics and Nanofluidics</i> , 2020 , 24, 1	2.8	5
35	Development of an Organ-on-a-Chip-Device for Study of Placental Pathologies. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	12
34	Mechanical fatigue of human red blood cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19828-19834	11.5	13
33	Biosensors for Detection of Human Placental Pathologies: A Review of Emerging Technologies and Current Trends. <i>Translational Research</i> , 2019 , 213, 23-49	11	14
32	Electrical Impedance Characterization of Erythrocyte Response to Cyclic Hypoxia in Sickle Cell Disease. <i>ACS Sensors</i> , 2019 , 4, 1783-1790	9.2	12
31	Faster Sickling Kinetics and Sickle Cell Shape Evolution during Repeated Deoxygenation and Oxygenation Cycles. <i>Experimental Mechanics</i> , 2019 , 59, 319-325	2.6	3
30	Posterior reversible encephalopathy syndrome in stroke-prone spontaneously hypertensive rats on high-salt diet. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019 , 39, 1232-1246	7.3	6
29	Electrical impedance microflow cytometry with oxygen control for detection of sickle cells. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 2392-2398	8.5	28

28	Modeling erythrocyte electrodeformation in response to amplitude modulated electric waveforms. <i>Scientific Reports</i> , 2018 , 8, 10224	4.9	13
27	Erythrocyte Membrane Failure by Electromechanical Stress. <i>Applied Sciences (Switzerland)</i> , 2018 , 8,	2.6	4
26	Dielectrophoresis Testing of Nonlinear Viscoelastic Behaviors of Human Red Blood Cells. <i>Micromachines</i> , 2018 , 9,	3.3	13
25	Dynamic fatigue measurement of human erythrocytes using dielectrophoresis. <i>Acta Biomaterialia</i> , 2017 , 57, 352-362	10.8	25
24	Patient-specific modeling of individual sickle cell behavior under transient hypoxia. <i>PLoS Computational Biology</i> , 2017 , 13, e1005426	5	16
23	Microfluidic Approaches for Biomechanics of Red Blood Cells. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 89-93	0.3	1
22	Experimental Electromechanics of Red Blood Cells Using Dielectrophoresis-Based Microfluidics. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 129-134	0.3	3
21	Rheology of Soft and Rigid Micro Particles in Curved Microfluidic Channels. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 83-87	0.3	
20	Measurement of Electrical Properties of Sickle Cells From Electrical Impedance of Cell Suspension 2017 ,		1
19	Patient-specific blood rheology in sickle-cell anaemia. <i>Interface Focus</i> , 2016 , 6, 20150065	3.9	42
18	Exposure of Stored Packed Erythrocytes to Nitric Oxide Prevents Transfusion-associated Pulmonary Hypertension. <i>Anesthesiology</i> , 2016 , 125, 952-963	4.3	9
17	Cellular normoxic biophysical markers of hydroxyurea treatment in sickle cell disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9527-32	11.5	30
16	Kinetics of sickle cell biorheology and implications for painful vasoocclusive crisis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 1422-7	11.5	70
15	The histone methyltransferase ESET is required for the survival of spermatogonial stem/progenitor cells in mice. <i>Cell Death and Disease</i> , 2014 , 5, e1196	9.8	25
14	Quantitative Biomechanics of Healthy and Diseased Human Red Blood Cells using Dielectrophoresis in a Microfluidic System. <i>Extreme Mechanics Letters</i> , 2014 , 1, 35-41	3.9	64
13	Quantification of Anti-Sickling Effect of Aes-103 in Sickle Cell Disease Using an in Vitro Microfluidic Assay. <i>Blood</i> , 2014 , 124, 2699-2699	2.2	2
12	Electric impedance microflow cytometry for characterization of cell disease states. <i>Lab on A Chip</i> , 2013 , 13, 3903-3909	7.2	67
11	Evidence that TMEM67 causes polycystic kidney disease through activation of JNK/ERK-dependent pathways. <i>Cell Biology International</i> , 2013 , 37, 694-702	4.5	3

10	Natural history and intragenomic dynamics of the Transib transposon Hztransib in the cotton bollworm <i>Helicoverpa zea</i> . <i>Insect Molecular Biology</i> , 2011 , 20, 291-301	3.4	1
9	Microfluidic pumping optimization in microgrooved channels with ac electrothermal actuations. <i>Applied Physics Letters</i> , 2010 , 96, 034102	3.4	35
8	Optimal design of microgrooved channels with electrokinetic pumping for lab-on-a-chip applications. <i>IET Nanobiotechnology</i> , 2010 , 4, 40-9	2	4
7	Pressure Sensor Based on Fiber Bragg Grating and Carbon Fiber Ribbon-Wound Composite Cylindrical Shell. <i>IEEE Sensors Journal</i> , 2009 , 9, 828-831	4	10
6	Enhanced ac electrothermal fluidic pumping in microgrooved channels. <i>Journal of Applied Physics</i> , 2008 , 104, 064902	2.5	42
5	Impacts of flexible obstructive working environment on dynamic performances of inspection robot for power transmission line. <i>Central South University</i> , 2008 , 15, 869-876		7
4	Electrohydrodynamic-mediated dielectrophoretic separation and transport based on asymmetric electrode pairs. <i>Electrophoresis</i> , 2008 , 29, 5017-25	3.6	9
3	Review of nanomanipulators for nanomanufacturing. <i>International Journal of Nanomanufacturing</i> , 2006 , 1, 83	0.7	38
2	Dynamic simulation and experimental study of inspection robot for high-voltage transmission-line. <i>Central South University</i> , 2005 , 12, 726-731		19
1	Electrical impedance detection of sickle cell vaso-occlusion in microfluidic capillary structures		1