

Elham Salimi

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

242
citations

1163117

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h-index

1281871

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docs citations

20
times ranked

244
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The changing dielectric properties of CHO cells can be used to determine early apoptotic events in a bioprocess. <i>Biotechnology and Bioengineering</i> , 2013, 110, 2902-2914. | 3.3 | 46 |
| 2 | Differential electronic detector to monitor apoptosis using dielectrophoresis-induced translation of flowing cells (dielectrophoresis cytometry). <i>Biomicrofluidics</i> , 2013, 7, 024101. | 2.4 | 39 |
| 3 | Membrane dielectric dispersion in nanosecond pulsed electroporation of biological cells. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2013, 20, 1256-1265. | 2.9 | 33 |
| 4 | Multi-Frequency DEP Cytometer Employing a Microwave Sensor for Dielectric Analysis of Single Cells. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016, , 1-9. | 4.6 | 23 |
| 5 | Quantitative Model for Ion Transport and Cytoplasm Conductivity of Chinese Hamster Ovary Cells. <i>Scientific Reports</i> , 2018, 8, 17818. | 3.3 | 19 |
| 6 | Progression of change in membrane capacitance and cytoplasm conductivity of cells during controlled starvation using dual-frequency DEP cytometry. <i>Analytica Chimica Acta</i> , 2019, 1059, 59-67. | 5.4 | 16 |
| 7 | Dielectric Properties of Single Cells Subjected to Heat Shock Using DEP Cytometry. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018, 66, 5933-5940. | 4.6 | 13 |
| 8 | Single cell dielectrophoresis study of apoptosis progression induced by controlled starvation. <i>Bioelectrochemistry</i> , 2018, 124, 73-79. | 4.6 | 13 |
| 9 | Cytoplasmic conductivity as a marker for bioprocess monitoring: Study of Chinese hamster ovary cells under nutrient deprivation and reintroduction. <i>Biotechnology and Bioengineering</i> , 2019, 116, 2896-2905. | 3.3 | 7 |
| 10 | Parallel single-cell optical transit dielectrophoresis cytometer. <i>Electrophoresis</i> , 2020, 41, 720-728. | 2.4 | 6 |
| 11 | Full Beta-Dispersion Region Dielectric Spectra and Dielectric Models of Viable and Non-Viable CHO Cells. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2021, 5, 70-77. | 3.4 | 6 |
| 12 | Change in the dielectric response of single cells induced by nutrient deprivation over a wide frequency range. , 2017, , . | | 5 |
| 13 | Multi-frequency DEP cytometer employing a microwave interferometer for the dielectric analysis of micro-particles. , 2015, , . | | 4 |
| 14 | In-flow dielectric characterization of single biological cells using a wideband DEP cytometer. , 2016, , . | | 3 |
| 15 | In-Flow Dielectrophoresis Sensor for Measuring the Dielectric Spectrum of Single Cells: Viable and Non-viable Cells. , 2019, , . | | 3 |
| 16 | Microfluidic device for simultaneous pulsed electric field electroporation and dielectrophoresis studies of single biological cells. , 2013, , . | | 2 |
| 17 | DEP Measurement of the Dielectric Properties of Single CHO Cells Under Thermal Stress. , 2018, , . | | 2 |
| 18 | Semi-automated detection of single cell signatures from a dielectrophoretic cytometer. , 2013, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|----|-----------|
| 19 | Two-frequency dielectrophoresis analysis of viable/non-viable single CHO cells employing a microwave cytometer. , 2016, , . | | 1 |
| 20 | Dielectrophoresis study of electroporation effects on Chinese hamster ovary cells. , 2014, , . | | 0 |