

Gintautas Saulis

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

974
citations

623734

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677142

22
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25
all docs

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docs citations

25
times ranked

1082
citing authors

#	ARTICLE	IF	CITATIONS
1	Electroporation of Cell Membranes: The Fundamental Effects of Pulsed Electric Fields in Food Processing. <i>Food Engineering Reviews</i> , 2010, 2, 52-73.	5.9	185
2	Energy-efficient biomass processing with pulsed electric fields for bioeconomy and sustainable development. <i>Biotechnology for Biofuels</i> , 2016, 9, 94.	6.2	179
3	Oxidative effects of nanosecond pulsed electric field exposure in cells and cell-free media. <i>Archives of Biochemistry and Biophysics</i> , 2012, 527, 55-64.	3.0	156
4	Size of the pores created by an electric pulse: Microsecond vs millisecond pulses. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 3032-3039.	2.6	95
5	Changes of the solution pH due to exposure by high-voltage electric pulses. <i>Bioelectrochemistry</i> , 2005, 67, 101-108.	4.6	67
6	Selective susceptibility to nanosecond pulsed electric field (nsPEF) across different human cell types. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 1741-1754.	5.4	50
7	Release of Iron Ions From the Stainless Steel Anode Occurring During High-Voltage Pulses and Its Consequences for Cell Electroporation Technology. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 249-254.	1.3	34
8	Determination of cell electroporation from the release of intracellular potassium ions. <i>Analytical Biochemistry</i> , 2007, 360, 273-281.	2.4	32
9	Increase of the roughness of the stainless-steel anode surface due to the exposure to high-voltage electric pulses as revealed by atomic force microscopy. <i>Bioelectrochemistry</i> , 2007, 70, 519-523.	4.6	30
10	Electric field-induced effects on yeast cell wall permeabilization. <i>Bioelectromagnetics</i> , 2014, 35, 136-144.	1.6	24
11	In vitro cytotoxicity studies of industrial Eucalyptus kraft lignins on mouse hepatoma, melanoma and Chinese hamster ovary cells. <i>International Journal of Biological Macromolecules</i> , 2019, 135, 353-361.	7.5	24
12	Physicochemical and in vitro cytotoxic properties of chitosan from mushroom species (<i>Boletus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	10.2	21
13	The loading of human erythrocytes with small molecules by electroporation. <i>Cellular and Molecular Biology Letters</i> , 2005, 10, 23-35.	7.0	20
14	Theoretical Analysis and Experimental Determination of the Relationships Between the Parameters of the Electric Field Pulse Required to Electroporate the Cells. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 2913-2919.	1.3	14
15	System for the Nanoporation of Biological Cells Based on an Optically-Triggered High-Voltage Spark-Gap Switch. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 2706-2711.	1.3	10
16	Determination of cell electroporation in small-volume samples by using a mini potassium-selective electrode. <i>Analytical Biochemistry</i> , 2005, 345, 340-342.	2.4	7
17	Cytotoxicity of a Cell Culture Medium Treated with a High-Voltage Pulse Using Stainless Steel Electrodes and the Role of Iron Ions. <i>Membranes</i> , 2022, 12, 184.	3.0	5
18	Cell Electromanipulation Procedures Change the pH of a Solution. , 1999, , 263-266.		4

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19	Determination of cell electroporation in small-volume samples. Biomedical Sciences Instrumentation, 2007, 43, 306-11.	0.2	4
20	The Electroporation as a Tool for Studying the Role of Plasma Membrane in the Mechanism of Cytotoxicity of Bisphosphonates and Menadione. Journal of Membrane Biology, 2016, 249, 611-621.	2.1	2
21	On the Mechanism of Synergistic Cytotoxicity of Vitamins C and K3: Experiments in Vitro and Quantum-Chemical Analysis. Biophysical Journal, 2012, 102, 576a.	0.5	1
22	Iron Ions Released from the Stainless-Steel Anode during High-Voltage Pulse Quench the Fluorescence of Calcein in both Solution and Electroporated Cells. Biophysical Journal, 2012, 102, 730a.	0.5	1
23	To breathe or not to breathe? Hypoxia after pulsed-electric field treatment reduces the effectiveness of electrochemotherapy in vitro. Bioelectrochemistry, 2021, 137, 107636.	4.6	1
24	Modeling of the Processes of Pore Creation and Disappearance in a Cell Under the Influence of Strong Electric Field as Random One-Step Processes. , 1999, , 437-440.		0