Olga N Pakhomova

List of Publications by Year
in descending order

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39	2,367	201385	329751
papers	citations	27 h-index	37 g-index

39	39	39	1128
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ca2+ dependence and kinetics of cell membrane repair after electropermeabilization. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183823.	1.4	10
2	The role of ESCRT-III and Annexin V in the repair of cell membrane permeabilization by the nanosecond pulsed electric field. Bioelectrochemistry, 2021, 140, 107837.	2.4	5
3	The interplay of excitation and electroporation in nanosecond pulse stimulation. Bioelectrochemistry, 2020, 136, 107598.	2.4	31
4	Probing Nanoelectroporation and Resealing of the Cell Membrane by the Entry of Ca2+ and Ba2+ Ions. International Journal of Molecular Sciences, 2020, 21, 3386.	1.8	23
5	Excitation and electroporation by MHz bursts of nanosecond stimuli. Biochemical and Biophysical Research Communications, 2019, 518, 759-764.	1.0	44
6	Mechanisms and immunogenicity of nsPEF-induced cell death in B16F10 melanoma tumors. Scientific Reports, 2019, 9, 431.	1.6	34
7	Nanosecond Pulsed Electric Fields Induce Endoplasmic Reticulum Stress Accompanied by Immunogenic Cell Death in Murine Models of Lymphoma and Colorectal Cancer. Cancers, 2019, 11, 2034.	1.7	35
8	Electropermeabilization by uni- or bipolar nanosecond electric pulses: The impact of extracellular conductivity. Bioelectrochemistry, 2018, 119, 10-19.	2.4	43
9	Expression of voltage-gated calcium channels augments cell susceptibility to membrane disruption by nanosecond pulsed electric field. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 2175-2183.	1.4	40
10	Excitation and injury of adult ventricular cardiomyocytes by nano- to millisecond electric shocks. Scientific Reports, 2018, 8, 8233.	1.6	41
11	Effect of Cooling On Cell Volume and Viability After Nanoelectroporation. Journal of Membrane Biology, 2017, 250, 217-224.	1.0	6
12	Selective susceptibility to nanosecond pulsed electric field (nsPEF) across different human cell types. Cellular and Molecular Life Sciences, 2017, 74, 1741-1754.	2.4	50
13	Activation of the phospholipid scramblase TMEM16F by nanosecond pulsed electric fields (nsPEF) facilitates its diverse cytophysiological effects. Journal of Biological Chemistry, 2017, 292, 19381-19391.	1.6	29
14	Delayed hypersensitivity to nanosecond pulsed electric field in electroporated cells. Scientific Reports, 2017, 7, 10992.	1.6	18
15	Electric Pulse Repetition Rate: Sensitization and Desensitization. , 2017, , 353-367.		4
16	The cytotoxic synergy of nanosecond electric pulses and low temperature leads to apoptosis. Scientific Reports, 2016, 6, 36835.	1.6	11
17	Electrosensitization assists cell ablation by nanosecond pulsed electric field in 3D cultures. Scientific Reports, 2016, 6, 23225.	1.6	41
18	Electric Pulse Repetition Rate: Sensitization and Desensitization. , 2016, , 1-16.		1

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19	Cell Electrosensitization Exists Only in Certain Electroporation Buffers. PLoS ONE, 2016, 11, e0159434.	1.1	43
20	Multiple nanosecond electric pulses increase the number but not the size of long-lived nanopores in the cell membrane. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 958-966.	1.4	103
21	Diffuse, non-polar electropermeabilization and reduced propidium uptake distinguish the effect of nanosecond electric pulses. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2118-2125.	1.4	34
22	Structure of CARDS toxin, a unique ADP-ribosylating and vacuolating cytotoxin from Mycoplasma pneumoniae. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5165-5170.	3.3	61
23	Bipolar nanosecond electric pulses are less efficient at electropermeabilization and killing cells than monopolar pulses. Biochemical and Biophysical Research Communications, 2014, 443, 568-573.	1.0	101
24	Disassembly of actin structures by nanosecond pulsed electric field is a downstream effect of cell swelling. Bioelectrochemistry, 2014, 100, 88-95.	2.4	69
25	Functional mapping of communityâ€acquired respiratory distress syndrome (<scp>CARDS</scp>) toxin of <scp>M</scp>ycoplasma pneumoniae defines regions with <scp>ADP</scp>â€ribosyltransferase, vacuolating and receptorâ€binding activities. Molecular Microbiology, 2014, 93, 568-581.	1.2	24
26	Calcium-mediated pore expansion and cell death following nanoelectroporation. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2547-2554.	1.4	82
27	Cancellation of cellular responses to nanoelectroporation by reversing the stimulus polarity. Cellular and Molecular Life Sciences, 2014, 71, 4431-4441.	2.4	108
28	Recruitment of the intracellular Ca2+ by ultrashort electric stimuli: The impact of pulse duration. Cell Calcium, 2013, 54, 145-150.	1.1	97
29	Facilitation of electroporative drug uptake and cell killing by electrosensitization. Journal of Cellular and Molecular Medicine, 2013, 17, 154-159.	1.6	40
30	Two Modes of Cell Death Caused by Exposure to Nanosecond Pulsed Electric Field. PLoS ONE, 2013, 8, e70278.	1.1	102
31	Manipulation of cell volume and membrane pore comparison following single cell permeabilization with 60- and 600-ns electric pulses. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 792-801.	1.4	150
32	Dose-Dependent Thresholds of 10-ns Electric Pulse Induced Plasma Membrane Disruption and Cytotoxicity in Multiple Cell Lines. PLoS ONE, 2011, 6, e15642.	1.1	71
33	Electroporation-Induced Electrosensitization. PLoS ONE, 2011, 6, e17100.	1.1	91
34	Analysis of Plasma Membrane Integrity by Fluorescent Detection of Tl+ Uptake. Journal of Membrane Biology, 2010, 236, 15-26.	1.0	176
35	Crystallization of community-acquired respiratory distress syndrome toxin fromMycoplasma pneumoniae. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 294-296.	0.7	4
36	Selective cytotoxicity of intense nanosecond-duration electric pulses in mammalian cells. Biochimica Et Biophysica Acta - General Subjects, 2010, 1800, 1210-1219.	1.1	87

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37	Lipid nanopores can form a stable, ion channel-like conduction pathway in cell membrane. Biochemical and Biophysical Research Communications, 2009, 385, 181-186.	1.0	261
38	Membrane permeabilization and cell damage by ultrashort electric field shocks. Archives of Biochemistry and Biophysics, 2007, 465, 109-118.	1.4	173
39	Oxygen enhances lethal effect of high-intensity, ultrashort electrical pulses. Bioelectromagnetics, 2006, 27, 221-225.	0.9	24