

Olga N Pakhomova

List of Publications by Year in descending order

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39
papers

2,367
citations

201385

27
h-index

329751

37
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39
all docs

39
docs citations

39
times ranked

1128
citing authors

#	ARTICLE	IF	CITATIONS
1	Lipid nanopores can form a stable, ion channel-like conduction pathway in cell membrane. <i>Biochemical and Biophysical Research Communications</i> , 2009, 385, 181-186.	1.0	261
2	Analysis of Plasma Membrane Integrity by Fluorescent Detection of TI+ Uptake. <i>Journal of Membrane Biology</i> , 2010, 236, 15-26.	1.0	176
3	Membrane permeabilization and cell damage by ultrashort electric field shocks. <i>Archives of Biochemistry and Biophysics</i> , 2007, 465, 109-118.	1.4	173
4	Manipulation of cell volume and membrane pore comparison following single cell permeabilization with 60- and 600-ns electric pulses. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 792-801.	1.4	150
5	Cancellation of cellular responses to nanoelectroporation by reversing the stimulus polarity. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 4431-4441.	2.4	108
6	Multiple nanosecond electric pulses increase the number but not the size of long-lived nanopores in the cell membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 958-966.	1.4	103
7	Two Modes of Cell Death Caused by Exposure to Nanosecond Pulsed Electric Field. <i>PLoS ONE</i> , 2013, 8, e70278.	1.1	102
8	Bipolar nanosecond electric pulses are less efficient at electropermeabilization and killing cells than monopolar pulses. <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 568-573.	1.0	101
9	Recruitment of the intracellular Ca ²⁺ by ultrashort electric stimuli: The impact of pulse duration. <i>Cell Calcium</i> , 2013, 54, 145-150.	1.1	97
10	Electroporation-Induced Electrosensitization. <i>PLoS ONE</i> , 2011, 6, e17100.	1.1	91
11	Selective cytotoxicity of intense nanosecond-duration electric pulses in mammalian cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2010, 1800, 1210-1219.	1.1	87
12	Calcium-mediated pore expansion and cell death following nanoelectroporation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 2547-2554.	1.4	82
13	Dose-Dependent Thresholds of 10-ns Electric Pulse Induced Plasma Membrane Disruption and Cytotoxicity in Multiple Cell Lines. <i>PLoS ONE</i> , 2011, 6, e15642.	1.1	71
14	Disassembly of actin structures by nanosecond pulsed electric field is a downstream effect of cell swelling. <i>Bioelectrochemistry</i> , 2014, 100, 88-95.	2.4	69
15	Structure of CARDS toxin, a unique ADP-ribosylating and vacuolating cytotoxin from <i>Mycoplasma pneumoniae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5165-5170.	3.3	61
16	Selective susceptibility to nanosecond pulsed electric field (nsPEF) across different human cell types. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 1741-1754.	2.4	50
17	Excitation and electroporation by MHz bursts of nanosecond stimuli. <i>Biochemical and Biophysical Research Communications</i> , 2019, 518, 759-764.	1.0	44
18	Electropermeabilization by uni- or bipolar nanosecond electric pulses: The impact of extracellular conductivity. <i>Bioelectrochemistry</i> , 2018, 119, 10-19.	2.4	43

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19	Cell Electrosensitization Exists Only in Certain Electroporation Buffers. PLoS ONE, 2016, 11, e0159434.	1.1	43
20	Electrosensitization assists cell ablation by nanosecond pulsed electric field in 3D cultures. Scientific Reports, 2016, 6, 23225.	1.6	41
21	Excitation and injury of adult ventricular cardiomyocytes by nano- to millisecond electric shocks. Scientific Reports, 2018, 8, 8233.	1.6	41
22	Facilitation of electroporative drug uptake and cell killing by electrosensitization. Journal of Cellular and Molecular Medicine, 2013, 17, 154-159.	1.6	40
23	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
24	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
25	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
26	Mechanisms and immunogenicity of nsPEF-induced cell death in B16F10 melanoma tumors. Scientific Reports, 2019, 9, 431.	1.6	34
27	The interplay of excitation and electroporation in nanosecond pulse stimulation. Bioelectrochemistry, 2020, 136, 107598.	2.4	31
28	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
29	Oxygen enhances lethal effect of high-intensity, ultrashort electrical pulses. Bioelectromagnetics, 2006, 27, 221-225.	0.9	24
30	Functional mapping of community-acquired respiratory distress syndrome (<scp>CARDS</scp>) toxin of <scp><i>Mycobacterium</i></scp> <scp><i>Mycobacterium</i></scp> defines regions with <scp>ADP</scp>-ribosyltransferase, vacuolating and receptor-binding activities. Molecular Microbiology, 2014, 93, 568-581.	1.2	24
31	Probing Nanoelectroporation and Resealing of the Cell Membrane by the Entry of Ca ²⁺ and Ba ²⁺ Ions. International Journal of Molecular Sciences, 2020, 21, 3386.	1.8	23
32	Delayed hypersensitivity to nanosecond pulsed electric field in electroporated cells. Scientific Reports, 2017, 7, 10992.	1.6	18
33	The cytotoxic synergy of nanosecond electric pulses and low temperature leads to apoptosis. Scientific Reports, 2016, 6, 36835.	1.6	11
34	Ca ²⁺ dependence and kinetics of cell membrane repair after electropermeabilization. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183823.	1.4	10
35	Effect of Cooling On Cell Volume and Viability After Nanoelectroporation. Journal of Membrane Biology, 2017, 250, 217-224.	1.0	6
36	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

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37	Crystallization of community-acquired respiratory distress syndrome toxin from <i>Mycoplasma pneumoniae</i> . Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 294-296.	0.7	4
38	Electric Pulse Repetition Rate: Sensitization and Desensitization. , 2017, , 353-367.		4
39	Electric Pulse Repetition Rate: Sensitization and Desensitization. , 2016, , 1-16.		1