

Iurii Semenov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Primary pathways of intracellular Ca ²⁺ mobilization by nanosecond pulsed electric field. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 981-989.	2.6	118
2	Cancellation of cellular responses to nanoelectroporation by reversing the stimulus polarity. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 4431-4441.	5.4	108
3	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.	2.6	103
4	Bipolar nanosecond electric pulses are less efficient at electroporation and killing cells than monopolar pulses. <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 568-573.	2.1	101
5	Recruitment of the intracellular Ca ²⁺ by ultrashort electric stimuli: The impact of pulse duration. <i>Cell Calcium</i> , 2013, 54, 145-150.	2.4	97
6	Calcium-mediated pore expansion and cell death following nanoelectroporation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 2547-2554.	2.6	82
7	Neuronal excitation and permeabilization by 200-ns pulsed electric field: An optical membrane potential study with FluoVolt dye. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 1273-1281.	2.6	51
8	Ion transport into cells exposed to monopolar and bipolar nanosecond pulses. <i>Bioelectrochemistry</i> , 2015, 103, 44-51.	4.6	47
9	Excitation and electroporation by MHz bursts of nanosecond stimuli. <i>Biochemical and Biophysical Research Communications</i> , 2019, 518, 759-764.	2.1	44
10	Excitation and injury of adult ventricular cardiomyocytes by nano- to millisecond electric shocks. <i>Scientific Reports</i> , 2018, 8, 8233.	3.3	41
11	Diffuse, non-polar electroporation and reduced propidium uptake distinguish the effect of nanosecond electric pulses. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 2118-2125.	2.6	34
12	Excitation of murine cardiac myocytes by nanosecond pulsed electric field. <i>Journal of Cardiovascular Electrophysiology</i> , 2019, 30, 392-401.	1.7	31
13	Frequency spectrum of induced transmembrane potential and permeabilization efficacy of bipolar electric pulses. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 1282-1290.	2.6	26
14	Electroporation of cells by closely spaced paired nanosecond-range pulses. <i>Bioelectrochemistry</i> , 2018, 121, 135-141.	4.6	26
15	Electroporation by subnanosecond pulses. <i>Biochemistry and Biophysics Reports</i> , 2016, 6, 253-259.	1.3	24
16	Probing Nanoelectroporation and Resealing of the Cell Membrane by the Entry of Ca ²⁺ and Ba ²⁺ Ions. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3386.	4.1	23
17	Interference targeting of bipolar nanosecond electric pulses for spatially focused electroporation, electrostimulation, and tissue ablation. <i>Bioelectrochemistry</i> , 2021, 141, 107876.	4.6	22