

# Lea Rems

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

1,326  
citations

471509

17  
h-index

642732

23  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1232  
citing authors

#	ARTICLE	IF	CITATIONS
1	Revisiting the role of pulsed electric fields in overcoming the barriers to in vivo gene electrotransfer. <i>Bioelectrochemistry</i> , 2022, 144, 107994.	4.6	20
2	Identification of electroporation sites in the complex lipid organization of the plasma membrane. <i>ELife</i> , 2022, 11, .	6.0	11
3	Actin networks regulate the cell membrane permeability during electroporation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183468.	2.6	36
4	Molecular Dynamics of Cell Membrane Electroporation. <i>Biophysical Journal</i> , 2021, 120, 42a.	0.5	0
5	DNA-membrane complex formation during electroporation is DNA size-dependent. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183089.	2.6	19
6	Pulsed Electric Fields Can Create Pores in the Voltage Sensors of Voltage-Gated Ion Channels. <i>Biophysical Journal</i> , 2020, 119, 190-205.	0.5	43
7	The contribution of lipid peroxidation to membrane permeability in electropermeabilization: A molecular dynamics study. <i>Bioelectrochemistry</i> , 2019, 125, 46-57.	4.6	71
8	Response of an actin network in vesicles under electric pulses. <i>Scientific Reports</i> , 2019, 9, 8151.	3.3	43
9	Membrane Electroporation and Electropermeabilization: Mechanisms and Models. <i>Annual Review of Biophysics</i> , 2019, 48, 63-91.	10.0	417
10	Assessing the electro-deformation and electro-poration of biological cells using a three-dimensional finite element model. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	33
11	DNA translocation to giant unilamellar vesicles during electroporation is independent of DNA size. <i>Soft Matter</i> , 2019, 15, 9187-9194.	2.7	8
12	The role of gel-phase domains in electroporation of vesicles. <i>Scientific Reports</i> , 2018, 8, 4758.	3.3	21
13	Lipid vesicles in pulsed electric fields: Fundamental principles of the membrane response and its biomedical applications. <i>Advances in Colloid and Interface Science</i> , 2017, 249, 248-271.	14.7	64
14	Lipid Pores: Molecular and Continuum Models. , 2017, , 3-23.		1
15	Biological Responses. , 2017, , 155-274.		3
16	Applicative Use of Electroporation Models. <i>Advances in Biomembranes and Lipid Self-Assembly</i> , 2017, 26, 1-50.	0.6	4
17	Quantification of cell membrane permeability induced by monopolar and high-frequency bipolar bursts of electrical pulses. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 2689-2698.	2.6	81
18	Tutorial: Electroporation of cells in complex materials and tissue. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	145

#	ARTICLE	IF	CITATIONS
19	Flow of DNA in micro/nanofluidics: From fundamentals to applications. <i>Biomicrofluidics</i> , 2016, 10, 043403.	2.4	42
20	Properties of lipid electropores II: Comparison of continuum-level modeling of pore conductance to molecular dynamics simulations. <i>Bioelectrochemistry</i> , 2016, 112, 112-124.	4.6	25
21	Properties of lipid electropores I: Molecular dynamics simulations of stabilized pores by constant charge imbalance. <i>Bioelectrochemistry</i> , 2016, 109, 108-116.	4.6	42
22	Modeling electroporation of the non-treated and vacuum impregnated heterogeneous tissue of spinach leaves. <i>Innovative Food Science and Emerging Technologies</i> , 2015, 29, 55-64.	5.6	23
23	Electroporation of Intracellular Liposomes Using Nanosecond Electric Pulses—A Theoretical Study. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 2624-2635.	4.2	61
24	Cell electrofusion using nanosecond electric pulses. <i>Scientific Reports</i> , 2013, 3, 3382.	3.3	110
25	The Influence of Intracellular Vesicle Size and Position on the Transmembrane Voltage Induced by Nanosecond Electric Fields. <i>IFMBE Proceedings</i> , 2011, , 255-258.	0.3	0