

Damijan Miklavcic

List of Publications by Year in descending order

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Version: 2024-02-01

407
papers

23,138
citations

5876

81
h-index

12233

133
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443
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docs citations

443
times ranked

8716
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.	2.4	20
2	Effect of the cholesterol on electroporation of planar lipid bilayer. <i>Bioelectrochemistry</i> , 2022, 144, 108004.	2.4	7
3	Effects of Time Delay Between Unipolar Pulses in High Frequency Nano-Electrochemotherapy. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1726-1732.	2.5	12
4	The Phenomenon of Electroporation. <i>Food Engineering Series</i> , 2022, , 107-141.	0.3	5
5	Numerical mesoscale tissue model of electrochemotherapy in liver based on histological findings. <i>Scientific Reports</i> , 2022, 12, 6476.	1.6	5
6	Muscle contractions and pain sensation accompanying high-frequency electroporation pulses. <i>Scientific Reports</i> , 2022, 12, 8019.	1.6	22
7	Safety and chronic lesion characterization of pulsed field ablation in a Porcine model. <i>Journal of Cardiovascular Electrophysiology</i> , 2021, 32, 958-969.	0.8	54
8	Intracellular delivery of trehalose renders mesenchymal stromal cells viable and immunomodulatory competent after cryopreservation. <i>Cytotechnology</i> , 2021, 73, 391-411.	0.7	4
9	Water Pores in Planar Lipid Bilayers at Fast and Slow Rise of Transmembrane Voltage. <i>Membranes</i> , 2021, 11, 263.	1.4	7
10	Editorial: Pulsed Electric Fields in Biotechnology. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 639150.	2.0	2
11	High-Frequency and High-Voltage Asymmetric Bipolar Pulse Generator for Electroporation Based Technologies and Therapies. <i>Electronics (Switzerland)</i> , 2021, 10, 1203.	1.8	10
12	Pulsed Electric Field (PEF) Enhances Iron Uptake by the Yeast <i>Saccharomyces cerevisiae</i> . <i>Biomolecules</i> , 2021, 11, 850.	1.8	13
13	Gene transfer by electroporation with high frequency bipolar pulses in vitro. <i>Bioelectrochemistry</i> , 2021, 140, 107803.	2.4	15
14	Electroporation with nanosecond pulses and bleomycin or cisplatin results in efficient cell kill and low metal release from electrodes. <i>Bioelectrochemistry</i> , 2021, 140, 107798.	2.4	33
15	Effect of electroporation in a continuous flow system on bioaccumulation of magnesium, zinc and calcium ions in <i>Lactobacillus rhamnosus</i> B 442 cells. <i>Bioelectrochemistry</i> , 2021, 140, 107769.	2.4	0
16	Contactless delivery of plasmid encoding EGFP in vivo by high-intensity pulsed electromagnetic field. <i>Bioelectrochemistry</i> , 2021, 141, 107847.	2.4	6
17	Cell death due to electroporation – A review. <i>Bioelectrochemistry</i> , 2021, 141, 107871.	2.4	174
18	Pulsed electric field treatment of <i>Lactobacillus rhamnosus</i> and <i>Lactobacillus paracasei</i> , bacteria with probiotic potential. <i>LWT - Food Science and Technology</i> , 2021, 152, 112304.	2.5	10

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19	Retrospective Study for Validation and Improvement of Numerical Treatment Planning of Irreversible Electroporation Ablation for Treatment of Liver Tumors. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 3513-3524.	2.5	11
20	Pulse Duration Dependent Asymmetry in Molecular Transmembrane Transport Due to Electroporation in H9c2 Rat Cardiac Myoblast Cells In Vitro. <i>Molecules</i> , 2021, 26, 6571.	1.7	1
21	Electroporation of Cell-Seeded Electrospun Fiber Mats for Cryopreservation. <i>IFMBE Proceedings</i> , 2021, , 485-494.	0.2	0
22	PEF-treated plant and animal tissues: Insights by approaching with different electroporation assessment methods. <i>Innovative Food Science and Emerging Technologies</i> , 2021, 74, 102872.	2.7	16
23	Electrodes and Electric Field Distribution in Clinical Practice. , 2021, , 21-59.		2
24	Peri-tumoral Metallic Implants Reduce the Efficacy of Irreversible Electroporation for the Ablation of Colorectal Liver Metastases. <i>CardioVascular and Interventional Radiology</i> , 2020, 43, 84-93.	0.9	24
25	Contactless electroporation induced by high intensity pulsed electromagnetic fields via distributed nanoelectrodes. <i>Bioelectrochemistry</i> , 2020, 132, 107440.	2.4	24
26	Cancellation effect is present in high-frequency reversible and irreversible electroporation. <i>Bioelectrochemistry</i> , 2020, 132, 107442.	2.4	46
27	Evaluation and Optimization of Protein Extraction From <i>E. coli</i> by Electroporation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 543187.	2.0	5
28	Investigation of safety for electrochemotherapy and irreversible electroporation ablation therapies in patients with cardiac pacemakers. <i>BioMedical Engineering OnLine</i> , 2020, 19, 85.	1.3	7
29	Scratching the electrode surface: Insights into a high-voltage pulsed-field application from in vitro & in silico studies in indifferent fluid. <i>Electrochimica Acta</i> , 2020, 363, 137187.	2.6	26
30	Early Cost-effectiveness Analysis of Electrochemotherapy as a Prospect Treatment Modality for Skin Melanoma. <i>Clinical Therapeutics</i> , 2020, 42, 1535-1548.e2.	1.1	6
31	Reduction in Pulmonary Vein Stenosis and Collateral Damage With Pulsed Field Ablation Compared With Radiofrequency Ablation in a Canine Model. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020, 13, e008337.	2.1	49
32	A Prospective Phase II Study Evaluating Intraoperative Electrochemotherapy of Hepatocellular Carcinoma. <i>Cancers</i> , 2020, 12, 3778.	1.7	22
33	Electronic Emulator of Biological Tissue as an Electrical Load during Electroporation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3103.	1.3	3
34	Electroporation as a Solvent-Free Green Technique for Non-Destructive Extraction of Proteins and Lipids From <i>Chlorella vulgaris</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 443.	2.0	24
35	Short microsecond pulses achieve homogeneous electroporation of elongated biological cells irrespective of their orientation in electric field. <i>Scientific Reports</i> , 2020, 10, 9149.	1.6	24
36	Development of adaptive resistance to electric pulsed field treatment in CHO cell line in vitro. <i>Scientific Reports</i> , 2020, 10, 9988.	1.6	4

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37	High-Pulsed Electromagnetic Field Generator for Contactless Permeabilization of Cells <i>In Vitro</i>. IEEE Transactions on Magnetics, 2020, 56, 1-6.	1.2	8
38	Mechanistic view of skin electroporation “ models and dosimetry for successful applications: an expert review. Expert Opinion on Drug Delivery, 2020, 17, 689-704.	2.4	30
39	High-Voltage Electrical Pulses in Oncology: Irreversible Electroporation, Electrochemotherapy, Gene Electrotransfer, Electrofusion, and Electroimmunotherapy. Radiology, 2020, 295, 254-272.	3.6	208
40	Ultrathin glass fiber microprobe for electroporation of arbitrary selected cell groups. Bioelectrochemistry, 2020, 135, 107545.	2.4	5
41	Electrotransfer of siRNA to Silence Enhanced Green Fluorescent Protein in Tumor Mediated by a High Intensity Pulsed Electromagnetic Field. Vaccines, 2020, 8, 49.	2.1	12
42	Effect of interphase and interpulse delay in high-frequency irreversible electroporation pulses on cell survival, membrane permeabilization and electrode material release. Bioelectrochemistry, 2020, 134, 107523.	2.4	30
43	Towards standardization of electroporation devices and protocols. IEEE Instrumentation and Measurement Magazine, 2020, 23, 74-81.	1.2	13
44	Calculations of Cell Transmembrane Voltage Induced by Time-Varying Magnetic Fields. IEEE Transactions on Plasma Science, 2020, 48, 1088-1095.	0.6	8
45	Intraoperative electrochemotherapy of colorectal liver metastases: A prospective phase II study. European Journal of Surgical Oncology, 2020, 46, 1628-1633.	0.5	30
46	Cardiac Pacemaker Exposed to Electroporation Pulses “ An Ex Vivo Study. IFMBE Proceedings, 2020, , 439-446.	0.2	1
47	Experimental and Numerical Study of Electroporation Induced by Long Monopolar and Short Bipolar Pulses on Realistic 3D Irregularly Shaped Cells. IEEE Transactions on Biomedical Engineering, 2020, 67, 2781-2788.	2.5	17
48	Percutaneous image guided electrochemotherapy of hepatocellular carcinoma: technological advancement. Radiology and Oncology, 2020, 54, 347-352.	0.6	25
49	Analysis of damage-associated molecular pattern molecules due to electroporation of cells in vitro. Radiology and Oncology, 2020, 54, 317-328.	0.6	42
50	Functional Requirements and Quality Assurance Necessary for Successful Incorporation of Electroporation-Based Therapies Into Clinical Practice. Journal of Medical Devices, Transactions of the ASME, 2020, 14, .	0.4	1
51	The contribution of lipid peroxidation to membrane permeability in electropermeabilization: A molecular dynamics study. Bioelectrochemistry, 2019, 125, 46-57.	2.4	71
52	Effect of electroporation and recovery medium pH on cell membrane permeabilization, cell survival and gene transfer efficiency in vitro. Bioelectrochemistry, 2019, 130, 107342.	2.4	21
53	Nanosecond Pulse Electroporator With Silicon Carbide mosfets: Development and Evaluation. IEEE Transactions on Biomedical Engineering, 2019, 66, 3526-3533.	2.5	21
54	Irreversible electroporation for catheter-based cardiac ablation: a systematic review of the preclinical experience. Journal of Interventional Cardiac Electrophysiology, 2019, 55, 251-265.	0.6	46

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55	Me2SO- and serum-free cryopreservation of human umbilical cord mesenchymal stem cells using electroporation-assisted delivery of sugars. <i>Cryobiology</i> , 2019, 91, 104-114.	0.3	21
56	Electroporation-Induced Stress Response and Its Effect on Gene Electrotransfer Efficacy: <i>In Vivo</i> Imaging and Numerical Modeling. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2671-2683.	2.5	15
57	Nonlinear Dispersive Model of Electroporation for Irregular Nucleated Cells. <i>Bioelectromagnetics</i> , 2019, 40, 331-342.	0.9	19
58	Electrochemotherapy of superficial tumors – Current status:. <i>Seminars in Oncology</i> , 2019, 46, 173-191.	0.8	80
59	Large Liver Blood Vessels and Bile Ducts Are Not Damaged by Electrochemotherapy with Bleomycin in Pigs. <i>Scientific Reports</i> , 2019, 9, 3649.	1.6	39
60	Membrane Electroporation and Electropermeabilization: Mechanisms and Models. <i>Annual Review of Biophysics</i> , 2019, 48, 63-91.	4.5	417
61	Assessing the electro-deformation and electro-poration of biological cells using a three-dimensional finite element model. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	33
62	Introduction of Phage Genome into Escherichia coli by Electroporation. <i>Methods in Molecular Biology</i> , 2019, 1898, 51-56.	0.4	1
63	Electrochemotherapy – Emerging applications technical advances, new indications, combined approaches, and multi-institutional collaboration. <i>European Journal of Surgical Oncology</i> , 2019, 45, 92-102.	0.5	138
64	The use of high-frequency short bipolar pulses in cisplatin electrochemotherapy in vitro. <i>Radiology and Oncology</i> , 2019, 53, 194-205.	0.6	29
65	Radiological findings of porcine liver after electrochemotherapy with bleomycin. <i>Radiology and Oncology</i> , 2019, 53, 415-426.	0.6	14
66	Electrochemotherapy as treatment option for hepatocellular carcinoma, a prospective pilot study. <i>European Journal of Surgical Oncology</i> , 2018, 44, 651-657.	0.5	71
67	Numerical Modelling for Prediction and Evaluation of Treatment Outcome. , 2018, , 67-80.		0
68	In vitro electroporation detection methods – An overview. <i>Bioelectrochemistry</i> , 2018, 120, 166-182.	2.4	130
69	Recommendations and requirements for reporting on applications of electric pulse delivery for electroporation of biological samples. <i>Bioelectrochemistry</i> , 2018, 122, 69-76.	2.4	45
70	Plasma membrane depolarization and permeabilization due to electric pulses in cell lines of different excitability. <i>Bioelectrochemistry</i> , 2018, 122, 103-114.	2.4	26
71	Special issue on bacterial inactivation. <i>Bioelectrochemistry</i> , 2018, 123, 260.	2.4	0
72	From Cell to Tissue Properties – Modeling Skin Electroporation With Pore and Local Transport Region Formation. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 458-468.	2.5	22

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73	Cell membrane permeabilization and cell survival after electroporation in acidic media in vitro. , 2018, , ,		1
74	Cardiac Ablation by Electroporation. JACC: Clinical Electrophysiology, 2018, 4, 1481-1482.	1.3	7
75	Selective extraction of proteins from bacterial cells by electroporation, sonoporation or glass bead homogenization. New Biotechnology, 2018, 44, S81.	2.4	1
76	Time-Dependent Finite Element Analysis of <i>In Vivo</i> Electrochemotherapy Treatment. Technology in Cancer Research and Treatment, 2018, 17, 153303381879051.	0.8	13
77	Computational Feasibility Analysis of Electrochemotherapy With Novel Needle-Electrode Arrays for the Treatment of Invasive Breast Ductal Carcinoma. Technology in Cancer Research and Treatment, 2018, 17, 153303381879493.	0.8	8
78	Electrochemotherapy of Spinal Metastases Using Transpedicular Approach – A Numerical Feasibility Study. Technology in Cancer Research and Treatment, 2018, 17, 153303461877025.	0.8	13
79	Numerical study of gene electrotransfer efficiency based on electroporation volume and electrophoretic movement of plasmid DNA. BioMedical Engineering OnLine, 2018, 17, 80.	1.3	10
80	Connecting the in vitro and in vivo experiments in electrochemotherapy - a feasibility study modeling cisplatin transport in mouse melanoma using the dual-porosity model. Journal of Controlled Release, 2018, 286, 33-45.	4.8	18
81	Ultrasonographic changes in the liver tumors as indicators of adequate tumor coverage with electric field for effective electrochemotherapy. Radiology and Oncology, 2018, 52, 383-391.	0.6	21
82	Cryopreservation of Human Adipose-Derived Stem Cells in Combination with Trehalose and Reversible Electroporation. Journal of Membrane Biology, 2017, 250, 1-9.	1.0	40
83	A comprehensive theoretical study of thermal relations in plant tissue following electroporation. International Journal of Heat and Mass Transfer, 2017, 111, 150-162.	2.5	4
84	Predictive therapeutic planning for irreversible electroporation treatment of spontaneous malignant glioma. Medical Physics, 2017, 44, 4968-4980.	1.6	50
85	Mathematical Models Describing Cell Death Due to Electroporation. , 2017, , 1199-1218.		2
86	Electric Field Distribution and Electroporation Threshold. , 2017, , 1043-1058.		18
87	Predicting irreversible electroporation-induced tissue damage by means of magnetic resonance electrical impedance tomography. Scientific Reports, 2017, 7, 10323.	1.6	24
88	The Effect of Nanosecond, High-Voltage Electric Pulses on the Shape and Permeability of Polymersome GUVs. Journal of Membrane Biology, 2017, 250, 441-453.	1.0	2
89	Investigation of numerical models for planning of electrochemotherapy treatments of invasive ductal carcinoma. , 2017, , .		5
90	Modeling and optimization of Blumlein nanosecond pulse generator for experiments on planar lipid bilayers. , 2017, , .		0

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91	The effect of pulse duration, power and energy of fractional Er:YAG laser for transdermal delivery of differently sized FITC dextrans. <i>International Journal of Pharmaceutics</i> , 2017, 516, 204-213.	2.6	20
92	Biological Responses. , 2017, , 155-274.		3
93	Mathematical model of tumor volume dynamics in mice treated with electrochemotherapy. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 1085-1096.	1.6	2
94	ELECTROCHEMOTHERAPY COMBINED WITH STANDARD AND CO2 LASER SURGERIES IN CANINE ORAL MELANOMA. <i>Slovenian Veterinary Research</i> , 2017, 54, .	0.0	6
95	Membrane permeabilization of mammalian cells using bursts of high magnetic field pulses. <i>PeerJ</i> , 2017, 5, e3267.	0.9	34
96	Editorial (Thematic Issue: Gene Transfer by Electric Fields). <i>Current Gene Therapy</i> , 2016, 16, 73-74.	0.9	1
97	Electrochemotherapy by pulsed electromagnetic field treatment (PEMF) in mouse melanoma B16F10 <i>in vivo</i> . <i>Radiology and Oncology</i> , 2016, 50, 39-48.	0.6	48
98	Gene Electrotransfer: A Mechanistic Perspective. <i>Current Gene Therapy</i> , 2016, 16, 98-129.	0.9	168
99	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.	1.4	81
100	Foreword to Sixth Special Issue on Electroporation-Based Technologies and Treatments. <i>Journal of Membrane Biology</i> , 2016, 249, 591-592.	1.0	1
101	Tutorial: Electroporation of cells in complex materials and tissue. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	145
102	Electroporation-Enhanced Transdermal Delivery of Patent Blue Using Green Skin Pore Device. <i>IFMBE Proceedings</i> , 2016, , 1030-1033.	0.2	5
103	Properties of lipid electropores II: Comparison of continuum-level modeling of pore conductance to molecular dynamics simulations. <i>Bioelectrochemistry</i> , 2016, 112, 112-124.	2.4	25
104	Effects of high voltage nanosecond electric pulses on eukaryotic cells (in vitro): A systematic review. <i>Bioelectrochemistry</i> , 2016, 110, 1-12.	2.4	160
105	Energy-efficient biomass processing with pulsed electric fields for bioeconomy and sustainable development. <i>Biotechnology for Biofuels</i> , 2016, 9, 94.	6.2	179
106	Inactivation of spores by electric arcs. <i>BMC Microbiology</i> , 2016, 16, 148.	1.3	5
107	The effect of temperature and bacterial growth phase on protein extraction by means of electroporation. <i>Bioelectrochemistry</i> , 2016, 112, 77-82.	2.4	24
108	Recommendations guidelines on the key information to be reported in studies of application of PEF technology in food and biotechnological processes. <i>Innovative Food Science and Emerging Technologies</i> , 2016, 37, 312-321.	2.7	194

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109	Electric Field Distribution and Electroporation Threshold. , 2016, , 1-17.		2
110	Dynamic finite-element model for efficient modelling of electric currents in electroporated tissue. Scientific Reports, 2016, 6, 26409.	1.6	55
111	Pulsed Electromagnetic Field Assisted in vitro Electroporation: A Pilot Study. Scientific Reports, 2016, 6, 33537.	1.6	36
112	A statistical model describing combined irreversible electroporation and electroporation-induced blood-brain barrier disruption. Radiology and Oncology, 2016, 50, 28-38.	0.6	35
113	Education on electrical phenomena involved in electroporation-based therapies and treatments: a blended learning approach. BioMedical Engineering OnLine, 2016, 15, 36.	1.3	4
114	Recommendations for improving the quality of reporting clinical electrochemotherapy studies based on qualitative systematic review. Radiology and Oncology, 2016, 50, 1-13.	0.6	101
115	Specific electrical capacitance and voltage breakdown as a function of temperature for different planar lipid bilayers. Bioelectrochemistry, 2016, 112, 132-137.	2.4	16
116	Electric field distribution in relation to cell membrane electroporation in potato tuber tissue studied by magnetic resonance techniques. Innovative Food Science and Emerging Technologies, 2016, 37, 384-390.	2.7	26
117	Proper Patient and Treatment Parameters Selection for Electrochemotherapy of Deep Seated Head and Neck Tumors. IFMBE Proceedings, 2016, , 275-279.	0.2	0
118	Cryopreservation of Human Umbilical Stem Cells in Combination with Trehalose and Reversible Electroporation. IFMBE Proceedings, 2016, , 307-310.	0.2	3
119	Cell Electrosensitization Exists Only in Certain Electroporation Buffers. PLoS ONE, 2016, 11, e0159434.	1.1	43
120	Investigation of the mechanisms of action behind Electromotive Drug Administration (EMDA). PeerJ, 2016, 4, e2309.	0.9	15
121	Mathematical Models Describing Cell Death Due to Electroporation. , 2016, , 1-20.		0
122	Electrochemotherapy (ECT) and irreversible electroporation (IRE) -advanced techniques for treating deep-seated tumors based on electroporation. BioMedical Engineering OnLine, 2015, 14, I1.	1.3	59
123	Careful treatment planning enables safe ablation of liver tumors adjacent to major blood vessels by percutaneous irreversible electroporation (IRE). Radiology and Oncology, 2015, 49, 234-241.	0.6	82
124	Coupling treatment planning with navigation system: a new technological approach in treatment of head and neck tumors by electrochemotherapy. BioMedical Engineering OnLine, 2015, 14, S2.	1.3	55
125	Web-based tool for visualization of electric field distribution in deep-seated body structures and planning of electroporation-based treatments. BioMedical Engineering OnLine, 2015, 14, S4.	1.3	40
126	Electrochemotherapy of colorectal liver metastases - an observational study of its effects on the electrocardiogram. BioMedical Engineering OnLine, 2015, 14, S5.	1.3	43

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127	Current density imaging sequence for monitoring current distribution during delivery of electric pulses in irreversible electroporation. <i>BioMedical Engineering OnLine</i> , 2015, 14, S6.	1.3	8
128	Variation in dielectric properties due to pathological changes in human liver. <i>Bioelectromagnetics</i> , 2015, 36, 603-612.	0.9	87
129	Ultrasound and electric pulses for transdermal drug delivery enhancement: Ex vivo assessment of methods with in vivo oriented experimental protocols. <i>International Journal of Pharmaceutics</i> , 2015, 490, 65-73.	2.6	39
130	Introduction to Fifth Special Issue on Electroporation-Based Technologies and Treatments. <i>Journal of Membrane Biology</i> , 2015, 248, 825-826.	1.0	0
131	Experimental Factors to Be Considered in Electroporation-Mediated Transdermal Diffusion Experiments. <i>Journal of Biomechanical Engineering</i> , 2015, 137, 124501.	0.6	8
132	Electroporation-based applications in biotechnology. <i>Trends in Biotechnology</i> , 2015, 33, 480-488.	4.9	445
133	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.	2.7	23
134	Electrochemotherapy of tumors as in situ vaccination boosted by immunogene electrotransfer. <i>Cancer Immunology, Immunotherapy</i> , 2015, 64, 1315-1327.	2.0	134
135	Mathematical Models Describing Chinese Hamster Ovary Cell Death Due to Electroporation In Vitro. <i>Journal of Membrane Biology</i> , 2015, 248, 865-881.	1.0	36
136	Generator and Setup for Emulating Exposures of Biological Samples to Lightning Strokes. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 2535-2543.	2.5	4
137	Assessment of the electrochemical effects of pulsed electric fields in a biological cell suspension. <i>Bioelectrochemistry</i> , 2015, 106, 249-257.	2.4	33
138	Protein Extraction by Means of Electroporation from <i>E. coli</i> with Preserved Viability. <i>Journal of Membrane Biology</i> , 2015, 248, 893-901.	1.0	31
139	In Situ Monitoring of Electric Field Distribution in Mouse Tumor during Electroporation. <i>Radiology</i> , 2015, 274, 115-123.	3.6	63
140	Electroporation Threshold of POPC Lipid Bilayers with Incorporated Polyoxyethylene Glycol ($C_{12}E_8$). <i>Journal of Physical Chemistry B</i> , 2015, 119, 192-200.	1.2	17
141	Dual-porosity model of mass transport in electroporated biological tissue: Simulations and experimental work for model validation. <i>Innovative Food Science and Emerging Technologies</i> , 2015, 29, 41-54.	2.7	18
142	Effect of Blood Vessel Segmentation on the Outcome of Electroporation-Based Treatments of Liver Tumors. <i>PLoS ONE</i> , 2015, 10, e0125591.	1.1	23
143	A Numerical Investigation of the Electric and Thermal Cell Kill Distributions in Electroporation-Based Therapies in Tissue. <i>PLoS ONE</i> , 2014, 9, e103083.	1.1	155
144	Introduction to Fourth Special Issue on Electroporation-Based Technologies and Treatments. <i>Journal of Membrane Biology</i> , 2014, 247, 1207-1208.	1.0	0

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145	Segmentation of hepatic vessels from MRI images for planning of electroporation-based treatments in the liver. <i>Radiology and Oncology</i> , 2014, 48, 267-281.	0.6	32
146	Cell membrane electroporation-Part 3: the equipment. <i>IEEE Electrical Insulation Magazine</i> , 2014, 30, 8-18.	1.1	91
147	CHO cell viability in CO ₂ saturated media. , 2014, , .		0
148	First experience with a new biomedical engineering program in slovenia established following the TEMPUS IV CRH-BME joint project guidelines. , 2014, 2014, 5156-9.		0
149	Magnetic resonance electrical impedance tomography for measuring electrical conductivity during electroporation. <i>Physiological Measurement</i> , 2014, 35, 985-996.	1.2	30
150	Electrochemotherapy: from the drawing board into medical practice. <i>BioMedical Engineering OnLine</i> , 2014, 13, 29.	1.3	284
151	Matlab-based tool for ECG and HRV analysis. <i>Biomedical Signal Processing and Control</i> , 2014, 10, 108-116.	3.5	30
152	Testing a prototype pulse generator for a continuous flow system and its use for E. coli inactivation and microalgae lipid extraction. <i>Bioelectrochemistry</i> , 2014, 100, 44-51.	2.4	81
153	Dual-porosity model of solute diffusion in biological tissue modified by electroporation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1950-1966.	1.4	34
154	Electroporation of archaeal lipid membranes using MD simulations. <i>Bioelectrochemistry</i> , 2014, 100, 18-26.	2.4	56
155	Electroporation in Food Processing and Biorefinery. <i>Journal of Membrane Biology</i> , 2014, 247, 1279-1304.	1.0	218
156	Transdermal transport pathway creation: Electroporation pulse order. <i>Mathematical Biosciences</i> , 2014, 257, 60-68.	0.9	33
157	Comparison of Flow Cytometry, Fluorescence Microscopy and Spectrofluorometry for Analysis of Gene Electrotransfer Efficiency. <i>Journal of Membrane Biology</i> , 2014, 247, 1259-1267.	1.0	24
158	Electrochemotherapy in non-melanoma head and neck cancers: a retrospective analysis of the treated cases. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2014, 52, 957-964.	0.4	50
159	Bio-Electroporation 2013 – New biotechnological and clinical applications. <i>Bioelectrochemistry</i> , 2014, 100, 1-2.	2.4	1
160	Electroporation-Based Technologies for Medicine: Principles, Applications, and Challenges. <i>Annual Review of Biomedical Engineering</i> , 2014, 16, 295-320.	5.7	655
161	Protein extraction by means of electroporation and bacterial viability of E. coli. <i>New Biotechnology</i> , 2014, 31, S186.	2.4	0
162	Structural Properties of Archaeal Lipid Bilayers: Small-Angle X-ray Scattering and Molecular Dynamics Simulation Study. <i>Langmuir</i> , 2014, 30, 8308-8315.	1.6	24

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163	Intraoperative electrochemotherapy of colorectal liver metastases. Journal of Surgical Oncology, 2014, 110, 320-327.	0.8	155
164	Modulation of Activity of Known Cytotoxic Ruthenium(III) Compound (KP418) with Hampered Transmembrane Transport in Electrochemotherapy In Vitro and In Vivo. Journal of Membrane Biology, 2014, 247, 1239-1251.	1.0	12
165	Evidence of Conducting Hydrophobic Nanopores Across Membranes in Response to an Electric Field. Journal of Physical Chemistry C, 2014, 118, 6752-6757.	1.5	38
166	Predicting electroporation of cells in an inhomogeneous electric field based on mathematical modeling and experimental CHO-cell permeabilization to propidium iodide determination. Bioelectrochemistry, 2014, 100, 52-61.	2.4	20
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