

Christopher B Arena

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6883604/publications.pdf>

Version: 2024-02-01

23
papers

1,093
citations

623734

14
h-index

794594

19
g-index

23
all docs

23
docs citations

23
times ranked

949
citing authors

#	ARTICLE	IF	CITATIONS
1	High-frequency irreversible electroporation (H-FIRE) for non-thermal ablation without muscle contraction. <i>BioMedical Engineering OnLine</i> , 2011, 10, 102.	2.7	265
2	Theoretical Considerations of Tissue Electroporation With High-Frequency Bipolar Pulses. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 1474-1482.	4.2	104
3	Contrast-Enhanced Ultrasound Imaging and in-Vivo Circulatory Kinetics with Low-Boiling-Point Nanoscale Phase-Change Perfluorocarbon Agents. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 814-831.	1.5	100
4	Bursts of Bipolar Microsecond Pulses Inhibit Tumor Growth. <i>Scientific Reports</i> , 2015, 5, 14999.	3.3	96
5	In-vitro bipolar nano- and microsecond electro-pulse bursts for irreversible electroporation therapies. <i>Bioelectrochemistry</i> , 2014, 100, 69-79.	4.6	91
6	A Three-Dimensional In-Vitro Tumor Platform for Modeling Therapeutic Irreversible Electroporation. <i>Biophysical Journal</i> , 2012, 103, 2033-2042.	0.5	81
7	Mitigation of impedance changes due to electroporation therapy using bursts of high-frequency bipolar pulses. <i>BioMedical Engineering OnLine</i> , 2015, 14, S3.	2.7	81
8	High-Frequency Irreversible Electroporation for Intracranial Meningioma: A Feasibility Study in a Spontaneous Canine Tumor Model. <i>Technology in Cancer Research and Treatment</i> , 2018, 17, 153303381878528.	1.9	58
9	Avoiding nerve stimulation in irreversible electroporation: a numerical modeling study. <i>Physics in Medicine and Biology</i> , 2017, 62, 8060-8079.	3.0	54
10	An evaluation of the sonoporation potential of low-boiling point phase-change ultrasound contrast agents in vitro. <i>Journal of Therapeutic Ultrasound</i> , 2017, 5, 7.	2.2	39
11	Focal blood-brain-barrier disruption with high-frequency pulsed electric fields. <i>Technology</i> , 2014, 02, 206-213.	1.4	30
12	Folate Conjugated Cellulose Nanocrystals Potentiate Irreversible Electroporation-induced Cytotoxicity for the Selective Treatment of Cancer Cells. <i>Technology in Cancer Research and Treatment</i> , 2015, 14, 757-766.	1.9	22
13	Rapid Impedance Spectroscopy for Monitoring Tissue Impedance, Temperature, and Treatment Outcome During Electroporation-Based Therapies. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 1536-1546.	4.2	18
14	Towards the development of latent heat storage electrodes for electroporation-based therapies. <i>Applied Physics Letters</i> , 2012, 101, 083902.	3.3	14
15	Advances in Therapeutic Electroporation to Mitigate Muscle Contractions. <i>Journal of Membrane Science & Technology</i> , 2012, 02, .	0.5	13
16	Wideband acoustic activation and detection of droplet vaporization events using a capacitive micromachined ultrasonic transducer. <i>Journal of the Acoustical Society of America</i> , 2016, 139, 3193-3198.	1.1	11
17	An Investigation for Large Volume, Focal Blood-Brain Barrier Disruption with High-Frequency Pulsed Electric Fields. <i>Pharmaceuticals</i> , 2021, 14, 1333.	3.8	8
18	Numerical simulation modeling of the irreversible electroporation treatment zone for focal therapy of prostate cancer, correlation with whole-mount pathology and T2-weighted MRI sequences. <i>Therapeutic Advances in Urology</i> , 2019, 11, 175628721985230.	2.0	5

#	ARTICLE	IF	CITATIONS
19	Web Conferencing Facilitation Within Problem-Based Learning Biomedical Engineering Courses. Biomedical Engineering Education, 2021, 1, 127-131.	0.7	2
20	Theoretical study for the treatment of pancreatic cancer using electric pulses. , 2009, 2009, 5997-6000.		1
21	In vivo quantification of image enhancement and circulation kinetics for phase change perfluorocarbon agents using custom pulse sequences. , 2014, , .		0
22	Focused ultrasound-facilitated brain drug delivery using optimized nanodroplets. , 2017, , .		0
23	Focused ultrasound-facilitated molecular delivery to the brain using drug-loaded nanodroplets. , 2017, , .		0