

Yan Mi

List of Publications by Year in descending order

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55
times ranked

692
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Power Supply of Online Monitoring Systems for Power Transmission Lines. IEEE Transactions on Industrial Electronics, 2010, 57, 2889-2895.	7.9	59
2	Experimental Studies on Killing and Inhibiting Effects of Steep Pulsed Electric Field (SPEF) to Target Cancer Cell and Solid Tumor. IEEE Transactions on Plasma Science, 2004, 32, 1626-1633.	1.3	51
3	FPGA-Controlled All-Solid-State Nanosecond Pulse Generator for Biological Applications. IEEE Transactions on Plasma Science, 2012, 40, 2366-2372.	1.3	40
4	A Novel Configuration of Modular Bipolar Pulse Generator Topology Based on Marx Generator With Double Power Charging. IEEE Transactions on Plasma Science, 2016, 44, 1872-1878.	1.3	39
5	Analysis of Dynamic Processes in Single-Cell Electroporation and Their Effects on Parameter Selection Based on the Finite-Element Model. IEEE Transactions on Plasma Science, 2017, 45, 889-900.	1.3	31
6	Finite difference time domain simulation of lightning transient electromagnetic fields on transmission lines. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1239-1246.	2.9	24
7	Multi-parametric study of temperature and thermal damage of tumor exposed to high-frequency nanosecond-pulsed electric fields based on finite element simulation. Medical and Biological Engineering and Computing, 2017, 55, 1109-1122.	2.8	24
8	Electroporation modeling of a single cell exposed to high-frequency nanosecond pulse bursts. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 461-468.	2.9	24
9	Inflammatory mechanism of cerebral ischemia-reperfusion injury with treatment of stepharine in rats. Phytomedicine, 2020, 79, 153353.	5.3	23
10	Pterostilbene alleviates cerebral ischemia and reperfusion injury in rats by modulating microglial activation. Food and Function, 2020, 11, 5432-5445.	4.6	22
11	An MMC-based modular unipolar/bipolar high-voltage nanosecond pulse generator with adjustable rise/fall time. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 515-522.	2.9	20
12	A Modular Generator of Nanosecond Pulses With Adjustable Polarity and High Repetition Rate. IEEE Transactions on Power Electronics, 2018, 33, 10654-10662.	7.9	19
13	Effect of frequency of microsecond pulsed electric field on orientation of boron nitride nanosheets and thermal conductivity of epoxy resin-based composites. Journal of Applied Physics, 2019, 126, .	2.5	19
14	Development and Simulation of a Compact Picosecond Pulse Generator Based on Avalanche Transistorized Marx Circuit and Microstrip Transmission Theory. IEEE Transactions on Plasma Science, 2016, 44, 1907-1913.	1.3	18
15	Kellerin from <i>Ferula sinkiangensis</i> exerts neuroprotective effects after focal cerebral ischemia in rats by inhibiting microglia-mediated inflammatory responses. Journal of Ethnopharmacology, 2021, 269, 113718.	4.1	17
16	A novel lightning current monitoring system based on the differential-integral loop. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1247-1255.	2.9	16
17	Scaling Relationship of <i>In Vivo</i> Muscle Contraction Strength of Rabbits Exposed to High-Frequency Nanosecond Pulse Bursts. Technology in Cancer Research and Treatment, 2018, 17, 153303381878807.	1.9	16
18	Design and Development of a Compact All-Solid-State High-Frequency Picosecond-Pulse Generator. IEEE Transactions on Plasma Science, 2018, 46, 3249-3256.	1.3	16

#	ARTICLE	IF	CITATIONS
19	Enhanced Breakdown Strength and Thermal Conductivity of BN/EP Nanocomposites with Bipolar Nanosecond Pulse DBD Plasma Modified BNNSs. <i>Nanomaterials</i> , 2019, 9, 1396.	4.1	16
20	A Multiparameter Adjustable, Portable High-Voltage Nanosecond Pulse Generator Based on Stacked Blumlein Multilayered PCB Strip Transmission Line. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 2022-2029.	1.3	15
21	Effect of Low-Field High-Frequency nsPEFs on the Biological Behaviors of Human A375 Melanoma Cells. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 2093-2100.	4.2	15
22	A high-repetition-rate bipolar nanosecond pulse generator for dielectric barrier discharge based on a magnetic pulse compression system. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 2582-2590.	1.3	14
23	A novel method to locate a fault of transmission lines by shielding failure. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014, 21, 1573-1583.	2.9	13
24	Identification of direct lightning strike faults based on mahalanobis distance and S-transform. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015, 22, 2019-2030.	2.9	13
25	Nanosecond Pulse Generator Based on an Unbalanced Blumlein-Type Multilayered Microstrip Transmission Line and Solid-State Switches. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 795-802.	1.3	13
26	A modular solid-state nanosecond pulsed generator based on Blumlein-line and transmission line transformer with microstrip line. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017, 24, 2196-2202.	2.9	13
27	Contactless measurement of lightning current using self-integrating B-dot probe. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2011, 18, 1323-1327.	2.9	12
28	High-frequency composite pulse generator based on full-bridge inverter and soft switching for biological applications. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016, 23, 2730-2737.	2.9	12
29	Comparison of Bipolar and Unipolar Pulses in Cell Electrofusion: Simulation and Experimental Research. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1353-1360.	4.2	12
30	Electroporation simulation of a multicellular system exposed to high-frequency 500 ns pulsed electric fields. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017, 24, 3985-3994.	2.9	11
31	Single-cell electroporation with high-frequency nanosecond pulse bursts: Simulation considering the irreversible electroporation effect and experimental validation. <i>Bioelectrochemistry</i> , 2021, 140, 107822.	4.6	11
32	Apoptosis induction effects of steep pulsed electric fields (SPEF) on human liver cancer cell SMMC-7721 in vitro. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2009, 16, 1302-1310.	2.9	8
33	Cell electrofusion based on nanosecond/microsecond pulsed electric fields. <i>PLoS ONE</i> , 2018, 13, e0197167.	2.5	8
34	Design and Experiments of Electromagnetic Heating Forming Technology. <i>IEEE Access</i> , 2019, 7, 62646-62656.	4.2	8
35	Effects of Steep Pulsed Electric Fields (SPEF) on Mitochondrial Transmembrane Potential of Human Liver Cancer Cell. , 2007, 2007, 5815-8.		7
36	Dependence on pulse duration and number of tumor cell apoptosis by nanosecond pulsed electric fields. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2013, 20, 1195-1200.	2.9	7

#	ARTICLE	IF	CITATIONS
37	Compact solid-state Marx-bank sub-nanosecond pulse generator based on gradient transmission line theory. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 2181-2188.	2.9	7
38	Electrofusion by a bipolar pulsed electric field: Increased cell fusion efficiency for monoclonal antibody production. Bioelectrochemistry, 2019, 127, 171-179.	4.6	7
39	Partial discharge characteristics of an air gap defect in the epoxy resin of a saturable reactor under an exponential decay pulse voltage. High Voltage, 2020, 5, 482-488.	4.7	7
40	Multi-Parametric Study of the Viability of <i>in Vitro</i> Skin Cancer Cells Exposed to Nanosecond Pulsed Electric Fields Combined With Multi-Walled Carbon Nanotubes. Technology in Cancer Research and Treatment, 2019, 18, 153303381987691.	1.9	6
41	Comparative Study of the Biological Responses to Conventional Pulse and High-Frequency Monopolar Pulse Bursts. IEEE Transactions on Plasma Science, 2017, 45, 2629-2638.	1.3	5
42	High-Frequency Bipolar Solid-State LTD Based on a Self-Trigging H-Bridge. IEEE Transactions on Power Electronics, 2022, 37, 5898-5907.	7.9	5
43	Effect of the mechanical properties of the cell membrane on the transition energy barrier of electroporation. Journal of Applied Physics, 2022, 131, 084701.	2.5	5
44	Development of High $\frac{dB}{dt}$ Pulsed Magnetic Field Generator Based on Printed Circuit Board Archimedes Spiral Coil for Biomedical Applications. IEEE Transactions on Plasma Science, 2016, 44, 1879-1887.	1.3	4
45	Comparison of the PD characteristics of epoxy resin under exponential decay pulse and sinusoidal voltages. IET Science, Measurement and Technology, 2019, 13, 1311-1317.	1.6	4
46	Multiparametric Finite-Element Simulation and Experiment on Thermal Effects in Skin Tumor Exposed to High-Frequency Nanosecond Pulse Bursts. IEEE Transactions on Plasma Science, 2019, 47, 924-934.	1.3	4
47	Simulation of BNNSs Dielectrophoretic Motion under a Nanosecond Pulsed Electric Field. Nanomaterials, 2021, 11, 682.	4.1	4
48	Development of a focusing pulsed magnetic field system for in Vivo experiments. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1327-1333.	2.9	3
49	Viability inhibition of A375 melanoma cells in vitro by a high-frequency nanosecond-pulsed magnetic field combined with targeted iron oxide nanoparticles via membrane magnetoporation. Nanotechnology, 2021, 32, 385101.	2.6	3
50	Simulation Study of an Impulse Radiation Antenna Array. IEEE Transactions on Plasma Science, 2018, 46, 2965-2971.	1.3	2
51	Simulation of Carbon Nanotube-Based Enhancement of Cellular Electroporation under Nanosecond Pulsed Electric Fields. BioMed Research International, 2019, 2019, 1-10.	1.9	1
52	Picosecond Pulse Electrical Field Suppressing Spike Firing in Hippocampal CA1 in Rat In Vivo. Bioelectromagnetics, 2020, 41, 617-629.	1.6	1
53	Experimental studies on effects of sub-lethal dose of pulsed electric field on Hela cells. , 2010, , .		0
54	Guest Editorial Special Issue on Pulsed Power Science and Technology. IEEE Transactions on Plasma Science, 2016, 44, 1863-1863.	1.3	0