

Luis M Redondo

List of Publications by Year in descending order

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430874

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docs citations

109
times ranked

728
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulsed Electric Fields for Valorization of Platelets with No Therapeutic Value towards a High Biomedical Potential Product—A Proof of Concept. Applied Sciences (Switzerland), 2022, 12, 5773.	2.5	5
2	Testing of a Bipolar Solid-State Marx Generator for Berlin BESSY II Injection Kicker System. IEEE Transactions on Plasma Science, 2021, 49, 1936-1940.	1.3	1
3	Peculiarities of Neurostimulation by Intense Nanosecond Pulsed Electric Fields: How to Avoid Firing in Peripheral Nerve Fibers. International Journal of Molecular Sciences, 2021, 22, 7051.	4.1	14
4	Review on Solid-State-Based Marx Generators. IEEE Transactions on Plasma Science, 2021, 49, 3625-3643.	1.3	28
5	Four Channel 6.5 kV, 65 A, 100 ns—100 μ s Generator with Advanced Control of Pulse and Burst Protocols for Biomedical and Biotechnological Applications. Applied Sciences (Switzerland), 2021, 11, 11782.	2.5	12
6	Dual Resonant Voltage Droop Compensation for Bipolar Solid-State Marx Generator Topologies. IEEE Transactions on Plasma Science, 2019, 47, 1017-1023.	1.3	11
7	Solid-State Generation of High-Frequency Burst of Bipolar Pulses for Medical Applications. IEEE Transactions on Plasma Science, 2019, 47, 4091-4095.	1.3	53
8	Application of pulsed electric fields for the valorization of platelets with no therapeutic value for transfusion medicine. Technology, 2019, 07, 40-45.	1.4	3
9	Valorization of platelets with no therapeutic value with Pulsed Electric Fields*. , 2019, , .		1
10	Development of a solid-state Marx Generator for Thyatron modulator replacement. , 2019, , .		2
11	Solid-State Bipolar Marx Modulators and Generation of Complementary Pulses Recovering the Energy of the Magnetizing Inductances. , 2019, , .		0
12	Marx Generator Prototype for Kicker Magnets Based on SiC MOSFETs. IEEE Transactions on Plasma Science, 2018, 46, 3334-3339.	1.3	31
13	Ozone Generation with a Flexible Solid-State Marx Generator. , 2018, , .		5
14	Solid-State Pulsed Power Modulators and Capacitor Charging Applications. , 2018, , 593-640.		4
15	Characterization of a single electrode focusing lens for ion beam deceleration. Instrumentation Science and Technology, 2017, 45, 12-21.	1.8	4
16	PWM Voltage Droop Compensation for Bipolar Solid-State Marx Generator Topologies. IEEE Transactions on Plasma Science, 2017, 45, 975-980.	1.3	7
17	Basic Concepts of High-Voltage Pulse Generation. , 2017, , 859-879.		2
18	Marx Multilevel Bipolar Modulator Dynamic Models for Load Transient Analysis. IEEE Transactions on Plasma Science, 2017, 45, 2611-2617.	1.3	7

#	ARTICLE	IF	CITATIONS
19	Optimized solid-state bipolar Marx modulator with resonant type droop compensation. , 2017, , .		1
20	Modeling Marx generators for maximum pulse repetition rate estimation. , 2017, , .		0
21	Resonant Converter Topology With Losses Compensation for the ISOLDE/CERN Modulator. IEEE Transactions on Plasma Science, 2017, 45, 3265-3270.	1.3	0
22	Design strategies for a SiC Marx generator for a kicker magnet. , 2017, , .		3
23	Rise-Time Improvement in Bipolar Pulse Solid-State Marx Modulators. IEEE Transactions on Plasma Science, 2017, 45, 2656-2660.	1.3	7
24	Particle Accelerator Focus Automation. Measurement Science Review, 2017, 17, 208-212.	1.0	0
25	Increasing the voltage droop compensation range in generalized bipolar solid-state Marx modulator. , 2017, , .		1
26	Fault Tolerance Capability and Semiconductor's Hold-Off Voltage of Solid-State Bipolar Marx Modulators. IEEE Transactions on Plasma Science, 2017, 45, 2661-2666.	1.3	1
27	Pulsed Power Technology. , 2017, , 41-107.		2
28	Basic Concepts of High-Voltage Pulse Generation. , 2017, , 1-21.		1
29	Advantages of Pulsed Electric Field Use for Treatment of Algae. , 2017, , 2355-2368.		0
30	Integrated Toolset for WSN Application Planning, Development, Commissioning and Maintenance: The WSN-DPCM ARTEMIS-JU Project. Sensors, 2016, 16, 804.	3.8	5
31	Solid-state Marx generator for the compact linear collider breakdown studies. , 2016, , .		7
32	Voltage droop compensation based on resonant circuit for generalized high voltage solid-state Marx modulator. , 2016, , .		7
33	Seven-Level Unipolar/Bipolar Pulsed Power Generator. IEEE Transactions on Plasma Science, 2016, 44, 2060-2064.	1.3	35
34	Advantages of Pulsed Electric Field Use for Treatment of Algae. , 2016, , 1-14.		0
35	25 kV bipolar solid-state Marx generator for industrial food applications. , 2015, , .		1
36	Control of predators in industrial scale microalgae cultures with Pulsed Electric Fields. Bioelectrochemistry, 2015, 103, 60-64.	4.6	56

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37	Cell Membrane Permeabilization Studies of <i>Chlorella</i> sp. by Pulsed Electric Fields. IEEE Transactions on Plasma Science, 2015, 43, 3483-3488.	1.3	20
38	Guest Editorial Special Issue on Selected Papers From EAPPC 2014. IEEE Transactions on Plasma Science, 2015, 43, 3358-3358.	1.3	0
39	New semiconductor based blumlein modulator for non-thermal plasma discharges in water. , 2014, , .		0
40	Resonant converter topology for the new ISOLDE/CERN modulator. , 2014, , .		1
41	Modular High-Current Generator for Electromagnetic Forming With Energy Recovery. IEEE Transactions on Plasma Science, 2014, 42, 3043-3047.	1.3	6
42	Multilevel High-Voltage Pulse Generation Based on a New Modular Solid-State Switch. IEEE Transactions on Plasma Science, 2014, 42, 2956-2961.	1.3	43
43	Multifunctional Controller Architecture for Solid-State Marx Modulator Based on FPGA. IEEE Transactions on Plasma Science, 2014, 42, 2991-2997.	1.3	3
44	Solid-State Bipolar Marx Modulator Modeling. IEEE Transactions on Plasma Science, 2014, 42, 3048-3056.	1.3	12
45	New four-switches bipolar solid-state Marx generator. , 2013, , .		3
46	New solid-state modulator for magnetic forming with energy recovering. , 2013, , .		1
47	New solid-state modulator for magnetic forming with energy recovery. , 2013, , .		0
48	Pulsed electric fields applied to the control of predators in production scale microalgae cultures. , 2013, , .		4
49	Pulsed electric field pre-treatment for apple juice extraction: Evaluation of monopolar and bipolar pulses effects. , 2012, , .		2
50	Special Issue on Pulsed Power Science and Technology. IEEE Transactions on Plasma Science, 2012, 40, 2299-2299.	1.3	0
51	Modeling of a Solid-State Bipolar Blumlein Generator for n Stages. IEEE Transactions on Plasma Science, 2012, 40, 2611-2617.	1.3	2
52	Comparison Between Monopolar and Bipolar Microsecond Range Pulsed Electric Fields in Enhancement of Apple Juice Extraction. IEEE Transactions on Plasma Science, 2012, 40, 2348-2354.	1.3	23
53	Marx-Type Solid-State Bipolar Modulator Topologies: Performance Comparison. IEEE Transactions on Plasma Science, 2012, 40, 2603-2610.	1.3	68
54	Solid-State Bipolar Marx Generator with Voltage Droop Compensation. International Federation for Information Processing, 2012, , 411-418.	0.4	5

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55	Modelling of n-Stage Blumlein Stacked Lines for Bipolar Pulse Generation. International Federation for Information Processing, 2012, , 395-402.	0.4	2
56	Characterization of nanostructured HfO2 films using RBS and PAC. Nuclear Instruments & Methods in Physics Research B, 2012, 273, 195-198.	1.4	1
57	Grid Integration of Offshore Wind Farms Using Modular Marx Multilevel Converters. International Federation for Information Processing, 2012, , 311-320.	0.4	3
58	Solid-State Bipolar Marx Converter with Output Transformer and Energy Recovery. International Federation for Information Processing, 2012, , 403-410.	0.4	0
59	Evaluation of V2V and V2I mesh prototypes based on a wireless sensor network. , 2011, , .		4
60	FPGA controller for power converters with integrated oscilloscope and graphical user interface. , 2011, , .		4
61	Magnetic forming and cutting of thin Al sheets. , 2011, , .		0
62	Solid-state Marx type modulator for Plasma Based Ion Implantation applications. , 2011, , .		3
63	Solid State Pulsed Power Electronics. , 2011, , 669-707.		7
64	Bipolar solid state arbitrary-waveform Marx generator for capacitive loads. , 2011, , .		11
65	Solid state marx modulator with blumlein stack for bipolar pulse generation. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 1199-1204.	2.9	18
66	New technique for uniform voltage sharing in series stacked semiconductors. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 1130-1136.	2.9	16
67	Mass spectrometry improvement on an high current ion implanter. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3222-3225.	1.4	0
68	Modeling of a solid-state Marx generator with parasitic capacitances for optimization studies. , 2011, , .		2
69	Optimization Of A Mass Spectrometry Process. , 2011, , .		0
70	A New Modular Marx Derived Multilevel Converter. International Federation for Information Processing, 2011, , 573-580.	0.4	6
71	Nanostructured Zr/Hf/Zr multilayer studied by perturbed angular correlations technique. Hyperfine Interactions, 2010, 198, 35-39.	0.5	0
72	Characterization of nanostructured HfO2 films using Perturbed Angular Correlation (PAC) technique. Hyperfine Interactions, 2010, 198, 41-45.	0.5	2

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73	Solid-state Marx based two-switch voltage modulator for the On-Line Isotope Mass Separator accelerator at the European Organization for Nuclear Research. Review of Scientific Instruments, 2010, 81, 074703.	1.3	6
74	A DC Voltage-Multiplier Circuit Working as a High-Voltage Pulse Generator. IEEE Transactions on Plasma Science, 2010, 38, 2725-2729.	1.3	53
75	Solid-state Marx technique for uniform voltage distribution in series stacked semiconductor switches. , 2010, , .		0
76	Comparison between two solid-state transformerless modulators for capacitive type load applications. , 2010, , .		6
77	Computer Control of a 3 MV Van de Graaff Accelerator. Metrology and Measurement Systems, 2010, 17, 415-425.	1.4	0
78	Solid state bipolar Marx modulator for nonthermal plasma applications. , 2009, , .		0
79	Flyback Versus Forward Switching Power Supply Topologies For Unipolar Pulsed-Power Applications. IEEE Transactions on Plasma Science, 2009, 37, 171-178.	1.3	45
80	Generalized solid-state marx modulator topology. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 1037-1042.	2.9	95
81	Repetitive High-Voltage Solid-State Marx Modulator Design for Various Load Conditions. IEEE Transactions on Plasma Science, 2009, 37, 1632-1637.	1.3	101
82	Repetitive solid state pulse modulator based on a dc voltage multiplier. , 2009, , .		1
83	High precision 180Hz ion implantation using a high-current ion implanter. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3661-3666.	1.4	0
84	New solid-state Marx topology for bipolar repetitive high-voltage pulses. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	39
85	New Repetitive Bipolar Solid-State Marx Type Modulator. , 2008, , .		13
86	Repetitive all solid-state pulse Marx type generator with energy recovery clamp circuit for inductive loads. , 2007, , .		0
87	Analysis of a modular generator for high-voltage, high-frequency pulsed applications, using low voltage semiconductors (< 1kV) and series connected step-up (1:10) transformers. Review of Scientific Instruments, 2007, 78, 034702.	1.3	14
88	Modular pulsed generator for kV and kHz applications based on forward converters association. , 2007, , .		2
89	Isolated Autonomous Capacitive Power Supplies to Trigger Floating Semiconductors in a Marx Generator. , 2007, , .		2
90	A low-cost, accurate and non-intercepting continuous method for beam current measurements in a high-current ion implanter. Nuclear Instruments & Methods in Physics Research B, 2007, 265, 576-580.	1.4	5

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91	Pulse Shape Improvement in Core-Type High-Voltage Pulse Transformers With Auxiliary Windings. IEEE Transactions on Magnetics, 2007, 43, 1973-1982.	2.1	27
92	Solid-state Marx Generator Design with an Energy Recovery Reset Circuit for Output Transformer Association. , 2007, , .		10
93	All Silicon Marx-bank Topology for High-voltage, High-frequency Rectangular Pulses. , 2005, , .		30
94	Rise time reduction in high-voltage pulse transformers using auxiliary windings. IEEE Transactions on Power Electronics, 2002, 17, 196-206.	7.9	27
95	Progress on high-voltage pulse generators, using low voltage semiconductors (<1 kV), designed for plasma immersion ion implantation (PIII). Surface and Coatings Technology, 2002, 156, 61-65.	4.8	7
96	A new method to build a high-voltage pulse supply using only semiconductor switches for plasma-immersion ion implantation. Surface and Coatings Technology, 2001, 136, 51-54.	4.8	28
97	Cephalic tetanus following minor facial abrasions: Report of a case. Journal of Oral and Maxillofacial Surgery, 2001, 59, 800-801.	1.2	8
98	Ion implantation of microcrystalline silicon for low process temperature top gate thin film transistors. Thin Solid Films, 1999, 337, 203-207.	1.8	1
99	GMR in high fluence ion implanted granular thin films. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 13-17.	2.3	7
100	Lattice site location and annealing behavior of W implanted TiO ₂ . Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 442-446.	1.4	8
101	Analysis of the elements sputtered during the lanthanum implantation in stainless steels. Nuclear Instruments & Methods in Physics Research B, 1998, 139, 344-349.	1.4	5
102	High flux ⁵⁶ Fe ⁺ and ⁵⁷ Fe ⁺ implantations for GMR applications. Nuclear Instruments & Methods in Physics Research B, 1998, 139, 350-354.	1.4	4
103	Isolated unilateral temporalis muscle hypertrophy. International Journal of Oral and Maxillofacial Surgery, 1998, 27, 92-93.	1.5	24
104	Giant magnetoresistance behavior of granular Fe and Co implanted Ag thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 1812-1816.	2.1	11
105	Giant Magnetoresistance in Iron and Cobalt Implanted Silver Thin Films. Materials Research Society Symposia Proceedings, 1997, 504, 203.	0.1	0
106	Repair of experimental mandibular defects in rats with autogenous, demineralised, frozen and fresh bone. British Journal of Oral and Maxillofacial Surgery, 1997, 35, 166-169.	0.8	15
107	Magnetization and magneto resistance in Fe-ion-implanted Cu and Ag thin films. Journal of Magnetism and Magnetic Materials, 1997, 173, 230-240.	2.3	21
108	Effect of particulate porous hydroxyapatite on osteoinduction of demineralized bone autografts in experimental reconstruction of the rat mandible. International Journal of Oral and Maxillofacial Surgery, 1995, 24, 445-448.	1.5	18

#	ARTICLE	IF	CITATIONS
109	Low-voltage semiconductor topology for kV pulse generation using a leakage flux corrected step-up transformer. , 0, , .		4