James Dickens

List of Publications by Year
in descending order

234	1,337	430874 18	526287 27
papers	citations	h-index	g-index

235	235	235	683
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design and optimization of a compact, repetitive, high-power microwave system. Review of Scientific Instruments, 2005, 76, 104703.	1.3	54
2	Interface Breakdown During High-Power Microwave Transmission. IEEE Transactions on Magnetics, 2007, 43, 496-500.	2.1	52
3	Material selection considerations for coaxial, ferrimagnetic-based nonlinear transmission lines. Journal of Applied Physics, 2013, 113, .	2.5	52
4	High Power Lateral Silicon Carbide Photoconductive Semiconductor Switches and Investigation of Degradation Mechanisms. IEEE Transactions on Plasma Science, 2015, 43, 2021-2031.	1.3	40
5	Ultracompact explosive-driven high-current source of primary power based on shock wave demagnetization of Nd2Fe14B hard ferromagnetics. Review of Scientific Instruments, 2002, 73, 2738-2742.	1.3	36
6	A Compact, Repetitive, 500kV, 500 J, Marx Generator. , 2005, , .		35
7	Design and Evaluation of a Compact Silicon Carbide Photoconductive Semiconductor Switch. IEEE Transactions on Electron Devices, 2011, 58, 508-511.	3.0	34
8	Approximate analytical solutions for the space-charge-limited current in one-dimensional and two-dimensional cylindrical diodes. Physics of Plasmas, 2004, 11, 3278-3283.	1.9	29
9	Bias-field controlled phasing and power combination of gyromagnetic nonlinear transmission lines. Review of Scientific Instruments, 2014, 85, 054706.	1.3	29
10	Characteristics of a four element gyromagnetic nonlinear transmission line array high power microwave source. Review of Scientific Instruments, 2016, 87, 054704.	1.3	29
11	Phenomenology of streamer propagation during pulsed dielectric surface flashover. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 946-953.	2.9	28
12	Calculations of secondary electron yield of graphene coated copper for vacuum electronic applications. AIP Advances, 2018, 8, .	1.3	27
13	Electrical behavior of a simple helical flux compression generator for code benchmarking. IEEE Transactions on Plasma Science, 2001, 29, 573-581.	1.3	26
14	Semiempirical wide-range conductivity model with exploding wire verification. Physical Review E, 2014, 89, 053102.	2.1	26
15	Shock wave demagnetization of BaFe12O19 hard ferrimagnetics. Journal of Applied Physics, 2002, 91, 3007-3009.	2.5	24
16	Completely explosive pulsed power minisystem. Review of Scientific Instruments, 2003, 74, 225-230.	1.3	23
17	Investigation of a stripline transmission line structure for gyromagnetic nonlinear transmission line high power microwave sources. Review of Scientific Instruments, 2016, 87, 034706.	1.3	23
18	Microwave Frequency Determination Mechanisms in a Coaxial Vircator. IEEE Transactions on Plasma Science, 2004, 32, 1799-1804.	1.3	22

#	Article	IF	Citations
19	Plasma relaxation mechanics of pulsed high power microwave surface flashover. Physics of Plasmas, 2013, 20, .	1.9	19
20	Lock-on physics in semi-insulating GaAs: Combination of trap-to-band impact ionization, moving electric fields and photon recycling. Journal of Applied Physics, 2018, 123, .	2.5	19
21	Material selection of a ferrimagnetic loaded coaxial delay line for phasing gyromagnetic nonlinear transmission lines. Review of Scientific Instruments, 2015, 86, 084702.	1.3	17
22	Simultaneous measurement of nitrogen and hydrogen dissociation from vacuum ultraviolet self-absorption spectroscopy in a developing low temperature plasma at atmospheric pressure. Applied Physics Letters, 2013, 102, 184104.	3.3	16
23	Graphics processing unit accelerated three-dimensional model for the simulation of pulsed low-temperature plasmas. Physics of Plasmas, 2014, 21, 123504.	1.9	16
24	Discrete photon implementation for plasma simulations. Physics of Plasmas, 2016, 23, .	1.9	16
25	Performance of a compact triode vircator and Marx generator system. , 2009, , .		15
26	Optimization of a low jitter, 50 kV, 100 Hz triggered spark gap with high pressure gas mixtures. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 971-978.	2.9	15
27	Nanosecond, repetitively pulsed microdischarge vacuum ultraviolet source. Applied Physics Letters, 2014, 104, 074105.	3.3	15
28	Charged electret deposition for the manipulation of high power microwave flashover delay times. Physics of Plasmas, 2012, 19, .	1.9	14
29	A passive measurement of dissociated atom densities in atmospheric pressure air discharge plasmas using vacuum ultraviolet self-absorption spectroscopy. Journal of Applied Physics, 2014, 115, 123302.	2.5	13
30	A compact 5kV battery-capacitor seed source with rapid capacitor charger. , 2009, , .		12
31	Gas evolution of nickel, stainless steel 316 and titanium anodes in vacuum sealed tubes. , 2012, , .		12
32	Design and implementation of a flux compression generator nonexplosive test bed for electroexplosive fuses. Review of Scientific Instruments, 2006, 77, 094702.	1.3	11
33	Stand-alone, FCG-driven High Power Microwave system. , 2009, , .		11
34	Evaluation of a triggered 50 kV, 100 Hz, sub-ns jitter high pressure gas switch with pressure, trigger magnitude and gas temperature. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 975-982.	2.9	11
35	Optically isolated, 2 kHz repetition rate, 4 kV solid-state pulse trigger generator. Review of Scientific Instruments, 2015, 86, 034702.	1.3	11
36	Fast SiC Switching Limits for Pulsed Power Applications. IEEE Transactions on Plasma Science, 2019, 47, 5306-5313.	1.3	11

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37	Direct observation of electrons in microwave vacuum components. Review of Scientific Instruments, 2019, 90, 054702.	1.3	11
38	Model evaluations of multipactor suppression in rectangular waveguides through grooved surfaces and static magnetic field. AIP Advances, 2021, 11, .	1.3	11
39	Efficiency results from a coaxial vircator using a simple feedback technique. , 0, , .		10
40	Optical diagnostics of liquid nitrogen volume pre-breakdown events. , 0, , .		10
41	Theoretical Pulsed Ring Down Antenna Array Performance. , 2007, , .		10
42	Performance and optimization of a 50 kV silicon carbide photoconductive semiconductor switch for pulsed power applications. , 2012, , .		10
43	Performance Analysis of an All Solid-State Linear Transformer Driver. IEEE Transactions on Plasma Science, 2017, 45, 1755-1761.	1.3	10
44	On the limits of multipactor in rectangular waveguides. Physics of Plasmas, 2020, 27, .	1.9	10
45	A Bench Top Railgun With Distributed Energy Sources. IEEE Transactions on Magnetics, 2007, 43, 167-169.	2.1	9
46	System for time-discretized vacuum ultraviolet spectroscopy of spark breakdown in air. Review of Scientific Instruments, 2014, 85, 103109.	1.3	9
47	Heating based model analysis for explosive emission initiation at metal cathodes. AIP Advances, 2015, 5, 127237.	1.3	9
48	Imaging of negative polarity dc breakdown streamer expansion in transformer oil due to variations in background pressure. IEEE Transactions on Plasma Science, 2005, 33, 494-495.	1.3	8
49	Imaging of the Explosive Emission Cathode Plasma in a Vircator High-Power Microwave Source. IEEE Transactions on Plasma Science, 2008, 36, 1388-1389.	1.3	8
50	Optimizing wire parameters in exploding wire arrays. , 2010, , .		8
51	An “energy efficient” vircator-based HPM system. , 2011, , .		8
52	Contact Extensions Over a High-k Dielectric Layer for Surface Field Mitigation in High Power 4H-SiC Photoconductive Switches. IEEE Transactions on Electron Devices, 2016, , 1-6.	3.0	8
53	Coupled analysis to probe the effect of angular assignments on the secondary electron yield (SEY) from copper electrodes. Physics of Plasmas, 2020, 27, .	1.9	8
54	A Compact, Self-Contained High Power Microwave Source Based on a Reflex-Triode Vircator and Explosively Driven Pulsed Power. , 2008, , .		7

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55	Optimizing power conditioning components for a Flux Compression Generator using a non-explosive testing system. , 2009, , .		7
56	Theoretical performance of a GPS linked Pulsed Ring Down Array. , 2010, , .		7
57	Bubble Dynamics and Channel Formation for Cathode Initiated Discharges in Transformer Oil. , 2005, , .		6
58	Design of Explosive-Driven Ferroelectric Pulse Generators with Outputs Exceeding 200 kV. , 2005, , .		6
59	The Impact of Water Conductivity, Electrode Material, and Electrode Surface Roughness on the Pulsed Breakdown Strength of Water. , 2006, , .		6
60	Theoretical pulsed ring down antenna array performance. , 2007, , .		6
61	COMSED 1 — A compact, gigawatt class microwave source utilizing helical flux compression generator based pulsed power. , 2010, , .		6
62	Initial anode optimization for a compact sealed tube vircator. , 2011, , .		6
63	Particle-in-cell based parameter study of 12-cavity, 12-cathode rising-sun relativistic magnetrons for improved performance. AIP Advances, 2015, 5, 107102.	1.3	6
64	Model predictions for atmospheric air breakdown by radio-frequency excitation in large gaps. Physics of Plasmas, 2017, 24, 073505.	1.9	6
65	A 160 J, 100 Hz rep rate, compact Marx generator for driving and HPM source. , 2016, , .		6
66	High-purity semi-insulating 4H-SiC as a high-voltage switch material. , 2010, , .		5
67	Rapid charging seed source with integrated fire set for flux compression generator applications. , 2010, , .		5
68	Operation of a 500 kV, 4 kA Marx generator at 500 Hz rep-rate. , 2014, , .		5
69	Characterization of the optical properties of GaN:Fe for high voltage photoconductive switch applications. , 2015, , .		5
70	A Take on Arbitrary Transient Electric Field Reconstruction Using Wavelet Decomposition Theory Coupled With Particle Swarm Optimization. IEEE Transactions on Antennas and Propagation, 2016, 64, 3151-3159.	5.1	5
71	Nonlinear UV absorption properties of bulk 4H-SiC. Journal of Applied Physics, 2017, 121, 115703.	2.5	5
72	Simulation of an S-Band MILO with Adjustable Beam Dump. Plasma, 2019, 2, 138-155.	1.8	5

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73	Multipactor suppression via asymmetric grooves in S-band waveguide. Physics of Plasmas, 2022, 29, .	1.9	5
74	Feasibility study of an explosively formed transient antenna. , 0, , .		4
75	Ferromagnetic and ferroelectric materials as seed sources for magnetic flux compressors. , 0, , .		4
76	Electro-Explosive Switches for Helical Flux Compression Generators. , 2006, , .		4
77	Pulsed Unipolar Surface Flashover at Atmospheric Conditions. International Power Modulator Symposium and High-Voltage Workshop, 2006, , .	0.0	4
78	Energy Deposition and Electromagnetic Compatibility Assessment of Electroexplosive Devices. , 2008, , .		4
79	Pulsed magnetic field excitation sensitivity of match-type electric blasting caps. Review of Scientific Instruments, 2010, 81, 105115.	1.3	4
80	Performance of a dual-stage helical flux compression generator under varying background gas and pressure. , 2010, , .		4
81	Theoretical performance of a mobile GPS linked pulsed ring down array. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 1079-1083.	2.9	4
82	Recombination lifetime modification in bulk, semi-insulating 4H-SiC photoconductive switches. , 2011, , .		4
83	Testing of a low inductance stacked mosfet switch for Pulsed Ring Down Sources. , 2011, , .		4
84	Performance and characterization of a 20 kV, contact face illuminated, silicon carbide photoconductive semiconductor switch for pulsed power applications. , 2013, , .		4
85	Frequency tuning a reflex triode vircator from 1.5 to 5.9 GHz. , 2014, , .		4
86	Evaluation of GaN:Fe as a high voltage photoconductive semiconductor switch for pulsed power applications. , 2015, , .		4
87	A Variable Resistance Thyristor-Type Switch Modeling Technique. IEEE Transactions on Plasma Science, 2016, 44, 1842-1846.	1.3	4
88	Analysis of multipactor in a rectangular waveguide using Spark3D software. Physics of Plasmas, 2020, 27, .	1.9	4
89	Investigation of Lightning Attachment Risks to Small Structures Associated With the Electrogeometric Model (EGM). IEEE Transactions on Plasma Science, 2020, 48, 2163-2174.	1.3	4
90	Exploring the Basic Physical Mechanisms of Cathode- and Anode-Initiated High-Voltage Surface Flashover. IEEE Transactions on Plasma Science, 2022, 50, 3361-3370.	1.3	4

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91	Pre-breakdown current behavior in DC volume breakdown in transformer oil. , 0, , .		3
92	Short pulse electric field sterilization of liquid media. , 0, , .		3
93	Electro-Explosive Fuse Optimization for Helical Flux Compression Generator using a Non-Explosive Test Bed. , 2007, , .		3
94	Evaluation of switch jitter in a high pressure coaxial spark gap. , 2007, , .		3
95	Scaling and Improvement of Compact Explosively-Driven Ferroelectric Generators. , 2008, , .		3
96	Shock Wave Simulation of Ferrite-Filled Coaxial Nonlinear Transmission Lines. , 2008, , .		3
97	Jitter and recovery rate of a triggered spark gap with high pressure gas mixtures. , 2009, , .		3
98	Synchronization of phased array pulsed ring-down sources using a GPS based timing system. , 2010, , .		3
99	Gas evolution measurements in a sealed vircator tube. , 2010, , .		3
100	Effects of gas temperature and gas mixtures on a triggered, sub-ns jitter, 50 kV, 100 Hz spark gap. , 2010, , .		3
101	Phased array pulsed ring-down source synchronization with a GPS based timing system. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 1071-1078.	2.9	3
102	COMSED 2 - recent advances to an explosively driven high power microwave Pulsed Power system. , 2011, , .		3
103	Characterization of mid-bandgap defect states in 4H-SiC for optimization of SiC photoconductive semiconductor switches. , 2014, , .		3
104	A high power microwave triggered RF opening switch. Review of Scientific Instruments, 2015, 86, 034704.	1.3	3
105	Initial testing of a reflex triode vircator with adjustable A-K gap and cavity reflector. , 2015, , .		3
106	Evaluation of a Pulsed Ultraviolet Light-Emitting Diode for Triggering Photoconductive Semiconductor Switches. IEEE Transactions on Plasma Science, 2015, 43, 2182-2186.	1.3	3
107	Assessing the role of trap-to-band impact ionization and hole transport on the dark currents of 4H-SiC photoconductive switches containing deep defects. Journal of Applied Physics, 2016, 120, 245705.	2.5	3
108	Tunable, Electrically Small, Inductively Coupled Antenna for Transportable Ionospheric Heating. Radio Science, 2018, 53, 496-508.	1.6	3

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109	Geometry Tuning of an Electrically Small Antenna for Ionospheric Heating. Radio Science, 2019, 54, 494-502.	1.6	3
110	Compact Marx Generator to Drive a Low-Impedance MILO. , 2019, , .		3
111	Ignition Mechanisms of Polymer Bonded Explosives During Drilling. , 2019, , .		3
112	High voltage testing of capacitors. , 0, , .		2
113	Explosive-driven moving magnet generators. , 0, , .		2
114	Conductivity measurements of MFCG armature material under shock and high strain rates utilizing a split-hopkinson pressure bar apparatus. , 2001, , .		2
115	High Voltage, Sub Nanosecond Feedthrough Design for Liquid Breakdown Studies. AIP Conference Proceedings, 2002, , .	0.4	2
116	Conductivity measurements of explosively shocked aluminum and OFHC copper used for armature material in a magnetic flux compression generator. , 0, , .		2
117	Design criteria for prevention of armature "turn-skipping" in helical magnetic flux compression generators. , 0, , .		2
118	Investigation of Charge Conduction and Self-Breakdown in Transformer Oil. , 2005, , .		2
119	Broadband Characterization of Transient Antennas. , 2005, , .		2
120	Composite Shadowgraphy and Luminosity Images of Self Breakdown Discharge Channels in Transformer Oil. , 2005, , .		2
121	Multistage Helical Flux Compression Generator Non-Explosive Test Bed. , 2005, , .		2
122	High Power Microwave Surface Flashover of a Gas-Dielectric Interface at 90 to 760 Torr. , 2005, , .		2
123	A Low-Cost Metallic Cathode for a Vircator HPM Source. , 2005, , .		2
124	Contributing Factors to Window Flashover Under Pulsed High Power Microwave Excitation at High Altitude. , 2006, , .		2
125	Modeling of a single element pulsed ring-down antenna for implementation in a phased array system. , 2007, , .		2
126	An asynchronous free-running arc, distributed energy railgun. , 2007, , .		2

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127	High-Current Compact FCG Seed Source Implementing Solid State Switching. , 2008, , .		2
128	Compact Silicon Carbide Switch For High Voltage Operation. , 2008, , .		2
129	Analysis of Mesoband Single Element Pulsed Ring-Down Antennas for Implementation in Phased Array Systems. , 2008, , .		2
130	High electric field packaging of silicon carbide photoconductive switches. , 2009, , .		2
131	Pulsed ring-down source array. , 2010, , .		2
132	Design of an apparatus for optical and VUV spectroscopy of explosive emission processes. , 2011, , .		2
133	Comparison of CsI coated carbon velvet and aluminum cathodes operated at current density on the order of 300 A/cm². , 2012, , .		2
134	Frequency agility of a ferrite-loaded, nonlinear transmission line. , 2012, , .		2
135	A high-power transient coaxial power combiner for nonlinear transmission lines. , 2013, , .		2
136	A battery powered 80 kVA capacitor charger. , 2014, , .		2
137	A metamaterial-inspired electrically small antenna for operation at 2 to 20 MHz. , 2014, , .		2
138	1 kHz rep-rate operation of a spark-gap switched gyromagnetic nonlinear transmission line array. , 2015, , .		2
139	Analysis of a tunable electrically small antenna. , 2015, , .		2
140	Solid state linear transformer driver (LTD) development for HPM sources. , 2015, , .		2
141	Experimental and numerical investigation of armature/stator contact in magnetic flux compression generators. , 0, , .		1
142	The current mode of pulsed power generation in moving magnet systems. , 0, , .		1
143	Compact explosive driven shock wave ferromagnetic generators. , 0, , .		1
144	Liquid Nitrogen as Fast High Voltage Switching Medium. AIP Conference Proceedings, 2002, , .	0.4	1

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145	Fast dielectric volume breakdown in liquid nitrogen. , 0, , .		1
146	The Impact of Electrode Material on the Pulsed Breakdown Strength of Water. , 2005, , .		1
147	Similarities of Dielectric Surface Flashover at Atmospheric Conditions for Pulsed Unipolar and RF Excitation. , 2005, , .		1
148	Simulation Studies of Liquid Water Breakdown By a Sub-Microsecond Pulse. , 2005, , .		1
149	Electro-explosive fuse optimization for Helical Flux compression generator using a non-explosive test bed. , 2007, , .		1
150	Window Flashover Initiation under Pulsed Microwave Excitation. , 2008, , .		1
151	Energy deposition assessment and electromagnetic evaluation of electroexplosive devices in a pulsed power environment. , 2009, , .		1
152	Electrical conduction in select polymers under shock loading. , 2009, , .		1
153	VUV emission from dielectric surface flashover at atmospheric pressure. , 2009, , .		1
154	Atmospheric flashover in a symmetric electric field geometry. , 2010, , .		1
155	Nanosecond-scale spectroscopy of vacuum ultraviolet emission from pulsed atmospheric discharges. , 2011, , .		1
156	A mobile Pulsed Ring Down source array using low power solid state radiators. , 2011, , .		1
157	Advanced imaging of pulsed atmospheric surface flashover. , 2011, , .		1
158	Investigation of vacuum UV absorption during low-temperature plasma formation in N<inf>2</inf>/H<inf>2</inf> mixtures at atmospheric pressure. , 2012, , .		1
159	Susceptibility of Electro-Explosive Devices to high pulsed electric fields. , 2012, , .		1
160	Fiber optic system for high frequency burst operation of a silicon carbide photoconductive semiconductor switch. , 2012, , .		1
161	Selective electron beam irradiation of high purity semi-insulating 4H silicon carbide substrates to characterize the effects on photoconductive semiconductor switch operation. , 2013, , .		1
162	Bias field controlled phasing of Ferrimagnetic Coaxial Nonlinear Transmission Lines. , 2013, , .		1

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163	Characterization of intra-bandgap defect states through leakage current analysis for optimization of 4H-SiC photoconductive switches. , 2015, , .		1
164	A 2D finite difference simulation to investigate the high voltage blocking characteristics of 4H-SiC photoconductive semiconductor switches. , 2015, , .		1
165	Burst mode operation of a high peak power high pulse repetition rate capacitor charging power supply. , 2015, , .		1
166	Nanosecond, pulsed microdischarge UV and VUV sources. , 2015, , .		1
167	A software controllable modular RF signal generator with multichannel transmission capabilities. Review of Scientific Instruments, 2017, 88, 094706.	1.3	1
168	Pulsed characterization of a UV LED for pulsed power applications on a silicon carbide photoconductive semiconductor switch. Review of Scientific Instruments, 2017, 88, 085109.	1.3	1
169	160 J, 100 HZ repetition rate, compact Marx generator and high power microwave system. , 2017, , .		1
170	Structural, Morphological, Optical and Electrical Properties of Bulk (0001) GaN:Fe Wafers. MRS Advances, 2018, 3, 179-184.	0.9	1
171	A 2 kW S-band RF source for multipactor research utilizing GaN HEMTs. AIP Advances, 2020, 10, 095026.	1.3	1
172	Optically Activated In-Waveguide Semiconductor Attenuators for the Controllable Isolation of Ka-Band Microwaves. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 2217-2223.	4.6	1
173	High Power Multipactor Suppression in X-Band Waveguide. , 2021, , .		1
174	Impact of helix geometry on MCG flux losses [magneto cumulative generators]. , 0, , .		0
175	Calculation of air temperature and pressure history during the operation of a magnetic flux compression generator. , 0, , .		0
176	Calculation of air temperature and pressure history during the operation of a flux compression generator. , 0, , .		0
177	Microwave breakdown studies of He-N/sub 2/ mixtures in a pillbox cavity from 760 to 3040 torr. , 0, , .		0
178	Phenomenology of conduction and breakdown in transformer oil. , 0, , .		0
179	Surface flashover across ceramic disks in vacuum at cryogenic temperatures. , 0, , .		0
180	Light-matter interaction in transformer oil. , 0, , .		0

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181	Effect of temperature and pressure on DC pre-breakdown current in transformer oil. , 0, , .		0
182	Nanosecond, optical diagnostics for liquid dielectric switches. , 0, , .		0
183	Voltage-current characteristic of transformer oil under high electrical stress. , 0, , .		0
184	Shock Induced Conductivity for High Power Switching. , 2005, , .		0
185	Pressure Induced Conductivity for High Power Switching. International Power Modulator Symposium and High-Voltage Workshop, 2006, , .	0.0	0
186	A Flux Compression Generator Non-Explosive Test Bed for Explosive Opening Switches. , 2006, , .		0
187	Electrical and Optical Measurements of Explosively Driven Plasma Jets. , 2007, , .		0
188	Explosive opening switch utilizing shockwave induced conduction in PMMA and PVC. , 2007, , .		0
189	Opening Switch Utilizing Shock Wave Induced Conduction in PMMA and PVC. , 2007, , .		0
190	Electrical and optical measurements of explosively driven plasma jets. , 2007, , .		0
191	Opening Switch Utilizing Stress Induced Conduction in Polymethylmethacrylate. , 2008, , .		0
192	Vacuum ultraviolet spectroscopy of dielectric surface flashover at atmospheric pressure. , 2009, , .		0
193	Prediction of compact explosively-driven ferroelectric generator performance. , 2009, , .		0
194	Spectral analysis of vacuum ultraviolet emission from pulsed atmospheric discharges. , 2010, , .		0
195	Physics investigations of vacuum ultraviolet emission from pulsed atmospheric discharges. , 2011, , .		0
196	Performance and Simulation Verification of a Mobile Solid State Pulsed Ring Down Array. IEEE Transactions on Plasma Science, 2012, 40, 2548-2553.	1.3	0
197	Spatially-resolved spectral observations of pulsed surface flashover in a nitrogen environment. , 2012, , .		0
198	Current capabilities of a low inductance Marx generator for driving a high power microwave source. , 2013, , .		0

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199	Bias field controlled phasing of ferrimagnetic coaxial nonlinear transmission lines. , 2013, , .		0
200	A high-power transient coaxial power combiner for nonlinear transmission lines. , 2013, , .		0
201	A passive method for determining plasma dissociation degree using vacuum UV self-absorption spectroscopy. , 2013, , .		0
202	Hydrodynamic and magnetohydrodynamic modeling of exploding wires in opening switch type operation. , 2013, , .		0
203	Frequency tunable sealed tube reflex triode vircator. , 2013, , .		0
204	Selective electron beam irradiation of high purity semi-insulating 4H silicon carbide substrates to characterize the effects on photoconductive semiconductor switch operation. , 2013, , .		0
205	Development and characterization of a pulsed micro hollow cathode discharge array. , 2013, , .		0
206	A wavelet approach to high power microwaves. , 2014, , .		0
207	Optimization of shock intensities generated by high current exploding wires. , 2014, , .		0
208	Pulsed microdischarge, 121.6 nm VUV source with 40 watt peak power. , 2014, , .		0
209	Measurement and simulation of pulsed plasma development at medium pressure in a non-uniform field. , 2014, , .		0
210	Design and operation of a fast-risetime, 500 Hz, 24 kV, optically-isolated pulse trigger generator. , 2014, , .		0
211	Performance of St707 getter material in a rep-rated high power microwave sealed-tube vircator under UHV conditions. , 2014, , .		0
212	Selected pulsed power efforts in US academia over the past two decades. , 2014, , .		0
213	Photoionization relevant extreme ultraviolet emission from developing low temperature plasmas in air. , 2015, , .		0
214	A wavelet approach to far-field signal reconstruction of transient electric fields. , 2015, , .		0
215	Compact reflex triode operation at 10 Hz repetition rate and long pulsewidths. , 2015, , .		0
216	Transient electromagnetic field reconstruction from sets of non-periodic oscillations. , 2016, , .		0

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217	Frequency tunability of a reflex-triode vircator using particle-in-cell modeling. , 2016, , .		0
218	Optical nonlinear absorption characterization of bulk semi-insulating 4H-SIC at and above the band edge. , 2016, , .		0
219	Particle-in-cell modeling of a reflex-triode vircator using ICEPIC. , 2016, , .		0
220	Multichannel signal synthesis in free space. , 2016, , .		0
221	Results of a compact reflex triode with multi cavity adjustment. , 2017, , .		0
222	Synthetization Of Signals By The Transmission And Superposition Of Bipolar Impulses In Free Space. , 2017, , .		0
223	Current Handling Capability and Bond Degradation of Bond Wires under Pulsed Conditions. , 2017, , .		0
224	Optical nonlinear absorption properties of 4h-SiC-experiment and model. , 2017, , .		0
225	Model evaluations of surface modification by energetic incident carbon atoms on graphene coated copper electrodes. Physics of Plasmas, 2019, 26, 013501.	1.9	0
226	Microsecond Fast, 100 kV Modular Pulse Charger. , 2019, , .		0
227	Low-Impedance S-Band MILO. , 2019, , .		0
228	Packaging and Evaluation of 100 kV Photoconductive Switches. , 2019, , .		0
229	Statistics and Propagation Modeling of Atmospheric Lightning. , 2019, , .		0
230	10.1063/1.4903330.1. , 2014, , .		0
231	Observation of Multipactor Effects in Space-Based RF Environments. , 2018, , .		0
232	Lightning Current Propagation in Electrical Conduit. IEEE Transactions on Plasma Science, 2022, 50, 132-140.	1.3	0
233	Sensitivity of PBX 9501 and PBX 9502 to Milling Operations. , 2021, , .		0
234	Effect of Humidity on Charge Decay in Varying Atmospheric Gases. , 2021, , .		0