

# James Dickens

## List of Publications by Year in descending order

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234  
papers

1,337  
citations

430874

18  
h-index

526287

27  
g-index

235  
all docs

235  
docs citations

235  
times ranked

683  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lightning Current Propagation in Electrical Conduit. IEEE Transactions on Plasma Science, 2022, 50, 132-140.	1.3	0
2	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
3	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
4	Multipactor suppression via asymmetric grooves in S-band waveguide. Physics of Plasmas, 2022, 29, .	1.9	5
5	Model evaluations of multipactor suppression in rectangular waveguides through grooved surfaces and static magnetic field. AIP Advances, 2021, 11, .	1.3	11
6	Sensitivity of PBX 9501 and PBX 9502 to Milling Operations. , 2021, , .		0
7	High Power Multipactor Suppression in X-Band Waveguide. , 2021, , .		1
8	Effect of Humidity on Charge Decay in Varying Atmospheric Gases. , 2021, , .		0
9	On the limits of multipactor in rectangular waveguides. Physics of Plasmas, 2020, 27, .	1.9	10
10	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
11	A 2 kW S-band RF source for multipactor research utilizing GaN HEMTs. AIP Advances, 2020, 10, 095026.	1.3	1
12	Analysis of multipactor in a rectangular waveguide using Spark3D software. Physics of Plasmas, 2020, 27, .	1.9	4
13	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
14	Fast SiC Switching Limits for Pulsed Power Applications. IEEE Transactions on Plasma Science, 2019, 47, 5306-5313.	1.3	11
15	Direct observation of electrons in microwave vacuum components. Review of Scientific Instruments, 2019, 90, 054702.	1.3	11
16	Simulation of an S-Band MILO with Adjustable Beam Dump. Plasma, 2019, 2, 138-155.	1.8	5
17	Geometry Tuning of an Electrically Small Antenna for Ionospheric Heating. Radio Science, 2019, 54, 494-502.	1.6	3
18	Model evaluations of surface modification by energetic incident carbon atoms on graphene coated copper electrodes. Physics of Plasmas, 2019, 26, 013501.	1.9	0

#	ARTICLE	IF	CITATIONS
19	Microsecond Fast, 100 kV Modular Pulse Charger. , 2019, , .		0
20	Compact Marx Generator to Drive a Low-Impedance MILO. , 2019, , .		3
21	Low-Impedance S-Band MILO. , 2019, , .		0
22	Packaging and Evaluation of 100 kV Photoconductive Switches. , 2019, , .		0
23	Ignition Mechanisms of Polymer Bonded Explosives During Drilling. , 2019, , .		3
24	Statistics and Propagation Modeling of Atmospheric Lightning. , 2019, , .		0
25	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
26	Tunable, Electrically Small, Inductively Coupled Antenna for Transportable Ionospheric Heating. Radio Science, 2018, 53, 496-508.	1.6	3
27	Calculations of secondary electron yield of graphene coated copper for vacuum electronic applications. AIP Advances, 2018, 8, .	1.3	27
28	Structural, Morphological, Optical and Electrical Properties of Bulk (0001) GaN:Fe Wafers. MRS Advances, 2018, 3, 179-184.	0.9	1
29	Observation of Multipactor Effects in Space-Based RF Environments. , 2018, , .		0
30	Performance Analysis of an All Solid-State Linear Transformer Driver. IEEE Transactions on Plasma Science, 2017, 45, 1755-1761.	1.3	10
31	Nonlinear UV absorption properties of bulk 4H-SiC. Journal of Applied Physics, 2017, 121, 115703.	2.5	5
32	A software controllable modular RF signal generator with multichannel transmission capabilities. Review of Scientific Instruments, 2017, 88, 094706.	1.3	1
33	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
34	Model predictions for atmospheric air breakdown by radio-frequency excitation in large gaps. Physics of Plasmas, 2017, 24, 073505.	1.9	6
35	Results of a compact reflex triode with multi cavity adjustment. , 2017, , .		0
36	160 J, 100 HZ repetition rate, compact Marx generator and high power microwave system. , 2017, , .		1

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37	Synthetization Of Signals By The Transmission And Superposition Of Bipolar Impulses In Free Space. , 2017, , .		0
38	Current Handling Capability and Bond Degradation of Bond Wires under Pulsed Conditions. , 2017, , .		0
39	Optical nonlinear absorpton properties of 4h-SiC-experiment and model. , 2017, , .		0
40	Transient electromagnetic field reconstruction from sets of non-periodic oscillations. , 2016, , .		0
41	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
42	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
43	Discrete photon implementation for plasma simulations. Physics of Plasmas, 2016, 23, .	1.9	16
44	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
45	Characteristics of a four element gyromagnetic nonlinear transmission line array high power microwave source. Review of Scientific Instruments, 2016, 87, 054704.	1.3	29
46	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
47	Frequency tunability of a reflex-triode vircator using particle-in-cell modeling. , 2016, , .		0
48	Optical nonlinear absorpton characterization of bulk semi-insulating 4H-SiC at and above the band edge. , 2016, , .		0
49	Particle-in-cell modeling of a reflex-triode vircator using ICEPIC. , 2016, , .		0
50	A Variable Resistance Thyristor-Type Switch Modeling Technique. IEEE Transactions on Plasma Science, 2016, 44, 1842-1846.	1.3	4
51	Multichannel signal synthesis in free space. , 2016, , .		0
52	A 160 J, 100 Hz rep rate, compact Marx generator for driving and HPM source. , 2016, , .		6
53	1 kHz rep-rate operation of a spark-gap switched gyromagnetic nonlinear transmission line array. , 2015, , .		2
54	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

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55	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
56	Heating based model analysis for explosive emission initiation at metal cathodes. AIP Advances, 2015, 5, 127237.	1.3	9
57	Characterization of intra-bandgap defect states through leakage current analysis for optimization of 4H-SiC photoconductive switches. , 2015, , .		1
58	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
59	Photoionization relevant extreme ultraviolet emission from developing low temperature plasmas in air. , 2015, , .		0
60	A 2D finite difference simulation to investigate the high voltage blocking characteristics of 4H-SiC photoconductive semiconductor switches. , 2015, , .		1
61	Burst mode operation of a high peak power high pulse repetition rate capacitor charging power supply. , 2015, , .		1
62	Analysis of a tunable electrically small antenna. , 2015, , .		2
63	A wavelet approach to far-field signal reconstruction of transient electric fields. , 2015, , .		0
64	Evaluation of GaN:Fe as a high voltage photoconductive semiconductor switch for pulsed power applications. , 2015, , .		4
65	Optically isolated, 2 kHz repetition rate, 4 kV solid-state pulse trigger generator. Review of Scientific Instruments, 2015, 86, 034702.	1.3	11
66	A high power microwave triggered RF opening switch. Review of Scientific Instruments, 2015, 86, 034704.	1.3	3
67	Solid state linear transformer driver (LTD) development for HPM sources. , 2015, , .		2
68	Initial testing of a reflex triode vircator with adjustable A-K gap and cavity reflector. , 2015, , .		3
69	Characterization of the optical properties of GaN:Fe for high voltage photoconductive switch applications. , 2015, , .		5
70	Nanosecond, pulsed microdischarge UV and VUV sources. , 2015, , .		1
71	Compact reflex triode operation at 10 Hz repetition rate and long pulsewidths. , 2015, , .		0
72	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

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73	System for time-discretized vacuum ultraviolet spectroscopy of spark breakdown in air. Review of Scientific Instruments, 2014, 85, 103109.	1.3	9
74	Graphics processing unit accelerated three-dimensional model for the simulation of pulsed low-temperature plasmas. Physics of Plasmas, 2014, 21, 123504.	1.9	16
75	A wavelet approach to high power microwaves. , 2014, , .		0
76	Characterization of mid-bandgap defect states in 4H-SiC for optimization of SiC photoconductive semiconductor switches. , 2014, , .		3
77	Optimization of shock intensities generated by high current exploding wires. , 2014, , .		0
78	Pulsed microdischarge, 121.6 nm VUV source with 40 watt peak power. , 2014, , .		0
79	Frequency tuning a reflex triode vircator from 1.5 to 5.9 GHz. , 2014, , .		4
80	A battery powered 80 kVA capacitor charger. , 2014, , .		2
81	Measurement and simulation of pulsed plasma development at medium pressure in a non-uniform field. , 2014, , .		0
82	Design and operation of a fast-risetime, 500 Hz, 24 kV, optically-isolated pulse trigger generator. , 2014, , .		0
83	A metamaterial-inspired electrically small antenna for operation at 2 to 20 MHz. , 2014, , .		2
84	Operation of a 500 kV, 4 kA Marx generator at 500 Hz rep-rate. , 2014, , .		5
85	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
86	Bias-field controlled phasing and power combination of gyromagnetic nonlinear transmission lines. Review of Scientific Instruments, 2014, 85, 054706.	1.3	29
87	Nanosecond, repetitively pulsed microdischarge vacuum ultraviolet source. Applied Physics Letters, 2014, 104, 074105.	3.3	15
88	Performance of St707 getter material in a rep-rated high power microwave sealed-tube vircator under UHV conditions. , 2014, , .		0
89	Selected pulsed power efforts in US academia over the past two decades. , 2014, , .		0
90	Semiempirical wide-range conductivity model with exploding wire verification. Physical Review E, 2014, 89, 053102.	2.1	26

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91	10.1063/1.4903330.1. , 2014, , .		0
92	Performance and characterization of a 20 kV, contact face illuminated, silicon carbide photoconductive semiconductor switch for pulsed power applications. , 2013, , .		4
93	Material selection considerations for coaxial, ferrimagnetic-based nonlinear transmission lines. Journal of Applied Physics, 2013, 113, .	2.5	52
94	Current capabilities of a low inductance Marx generator for driving a high power microwave source. , 2013, , .		0
95	Selective electron beam irradiation of high purity semi-insulating 4H silicon carbide substrates to characterize the effects on photoconductive semiconductor switch operation. , 2013, , .		1
96	Plasma relaxation mechanics of pulsed high power microwave surface flashover. Physics of Plasmas, 2013, 20, .	1.9	19
97	A high-power transient coaxial power combiner for nonlinear transmission lines. , 2013, , .		2
98	Bias field controlled phasing of ferrimagnetic coaxial nonlinear transmission lines. , 2013, , .		0
99	Bias field controlled phasing of Ferrimagnetic Coaxial Nonlinear Transmission Lines. , 2013, , .		1
100	A high-power transient coaxial power combiner for nonlinear transmission lines. , 2013, , .		0
101	A passive method for determining plasma dissociation degree using vacuum UV self-absorption spectroscopy. , 2013, , .		0
102	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
103	Hydrodynamic and magnetohydrodynamic modeling of exploding wires in opening switch type operation. , 2013, , .		0
104	Frequency tunable sealed tube reflex triode vircator. , 2013, , .		0
105	Selective electron beam irradiation of high purity semi-insulating 4H silicon carbide substrates to characterize the effects on photoconductive semiconductor switch operation. , 2013, , .		0
106	Development and characterization of a pulsed micro hollow cathode discharge array. , 2013, , .		0
107	Charged electret deposition for the manipulation of high power microwave flashover delay times. Physics of Plasmas, 2012, 19, .	1.9	14
108	Comparison of CsI coated carbon velvet and aluminum cathodes operated at current density on the order of 300 A/cm <sup>2</sup> . , 2012, , .		2

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109	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
110	Frequency agility of a ferrite-loaded, nonlinear transmission line. , 2012, , .		2
111	Performance and optimization of a 50 kV silicon carbide photoconductive semiconductor switch for pulsed power applications. , 2012, , .		10
112	Investigation of vacuum UV absorption during low-temperature plasma formation in N <sub>2</sub> /H <sub>2</sub> mixtures at atmospheric pressure. , 2012, , .		1
113	Susceptibility of Electro-Explosive Devices to high pulsed electric fields. , 2012, , .		1
114	Fiber optic system for high frequency burst operation of a silicon carbide photoconductive semiconductor switch. , 2012, , .		1
115	Gas evolution of nickel, stainless steel 316 and titanium anodes in vacuum sealed tubes. , 2012, , .		12
116	Spatially-resolved spectral observations of pulsed surface flashover in a nitrogen environment. , 2012, , .		0
117	Nanosecond-scale spectroscopy of vacuum ultraviolet emission from pulsed atmospheric discharges. , 2011, , .		1
118	Initial anode optimization for a compact sealed tube vircator. , 2011, , .		6
119	A mobile Pulsed Ring Down source array using low power solid state radiators. , 2011, , .		1
120	Phenomenology of streamer propagation during pulsed dielectric surface flashover. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 946-953.	2.9	28
121	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
122	Recombination lifetime modification in bulk, semi-insulating 4H-SiC photoconductive switches. , 2011, , .		4
123	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
124	An &#x201C;energy efficient&#x201D; vircator-based HPM system. , 2011, , .		8
125	Design and Evaluation of a Compact Silicon Carbide Photoconductive Semiconductor Switch. IEEE Transactions on Electron Devices, 2011, 58, 508-511.	3.0	34
126	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



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127	Design of an apparatus for optical and VUV spectroscopy of explosive emission processes. , 2011, , .		2
128	Advanced imaging of pulsed atmospheric surface flashover. , 2011, , .		1
129	COMSED 2 - recent advances to an explosively driven high power microwave Pulsed Power system. , 2011, , .		3
130	Testing of a low inductance stacked mosfet switch for Pulsed Ring Down Sources. , 2011, , .		4
131	Physics investigations of vacuum ultraviolet emission from pulsed atmospheric discharges. , 2011, , .		0
132	Pulsed ring-down source array. , 2010, , .		2
133	Synchronization of phased array pulsed ring-down sources using a GPS based timing system. , 2010, , .		3
134	Theoretical performance of a GPS linked Pulsed Ring Down Array. , 2010, , .		7
135	Pulsed magnetic field excitation sensitivity of match-type electric blasting caps. Review of Scientific Instruments, 2010, 81, 105115.	1.3	4
136	Gas evolution measurements in a sealed vircator tube. , 2010, , .		3
137	Spectral analysis of vacuum ultraviolet emission from pulsed atmospheric discharges. , 2010, , .		0
138	COMSED 1 &#x2014; A compact, gigawatt class microwave source utilizing helical flux compression generator based pulsed power. , 2010, , .		6
139	High-purity semi-insulating 4H-SiC as a high-voltage switch material. , 2010, , .		5
140	Rapid charging seed source with integrated fire set for flux compression generator applications. , 2010, , .		5
141	Optimizing wire parameters in exploding wire arrays. , 2010, , .		8
142	Performance of a dual-stage helical flux compression generator under varying background gas and pressure. , 2010, , .		4
143	Effects of gas temperature and gas mixtures on a triggered, sub-ns jitter, 50 kV, 100 Hz spark gap. , 2010, , .		3
144	Atmospheric flashover in a symmetric electric field geometry. , 2010, , .		1

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145	Vacuum ultraviolet spectroscopy of dielectric surface flashover at atmospheric pressure. , 2009, , .		0
146	Energy deposition assessment and electromagnetic evaluation of electroexplosive devices in a pulsed power environment. , 2009, , .		1
147	Stand-alone, FCG-driven High Power Microwave system. , 2009, , .		11
148	A compact 5kV battery-capacitor seed source with rapid capacitor charger. , 2009, , .		12
149	High electric field packaging of silicon carbide photoconductive switches. , 2009, , .		2
150	Electrical conduction in select polymers under shock loading. , 2009, , .		1
151	Prediction of compact explosively-driven ferroelectric generator performance. , 2009, , .		0
152	Jitter and recovery rate of a triggered spark gap with high pressure gas mixtures. , 2009, , .		3
153	VUV emission from dielectric surface flashover at atmospheric pressure. , 2009, , .		1
154	Optimizing power conditioning components for a Flux Compression Generator using a non-explosive testing system. , 2009, , .		7
155	Performance of a compact triode vircator and Marx generator system. , 2009, , .		15
156	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
157	High-Current Compact FCG Seed Source Implementing Solid State Switching. , 2008, , .		2
158	A Compact, Self-Contained High Power Microwave Source Based on a Reflex-Triode Vircator and Explosively Driven Pulsed Power. , 2008, , .		7
159	Compact Silicon Carbide Switch For High Voltage Operation. , 2008, , .		2
160	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
161	Analysis of Mesoband Single Element Pulsed Ring-Down Antennas for Implementation in Phased Array Systems. , 2008, , .		2
162	Scaling and Improvement of Compact Explosively-Driven Ferroelectric Generators. , 2008, , .		3

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163	Shock Wave Simulation of Ferrite-Filled Coaxial Nonlinear Transmission Lines. , 2008, , .		3
164	Energy Deposition and Electromagnetic Compatibility Assessment of Electroexplosive Devices. , 2008, , .		4
165	Opening Switch Utilizing Stress Induced Conduction in Polymethylmethacrylate. , 2008, , .		0
166	Window Flashover Initiation under Pulsed Microwave Excitation. , 2008, , .		1
167	Modeling of a single element pulsed ring-down antenna for implementation in a phased array system. , 2007, , .		2
168	Electrical and Optical Measurements of Explosively Driven Plasma Jets. , 2007, , .		0
169	Explosive opening switch utilizing shockwave induced conduction in PMMA and PVC. , 2007, , .		0
170	Theoretical pulsed ring down antenna array performance. , 2007, , .		6
171	Opening Switch Utilizing Shock Wave Induced Conduction in PMMA and PVC. , 2007, , .		0
172	Electro-Explosive Fuse Optimization for Helical Flux Compression Generator using a Non-Explosive Test Bed. , 2007, , .		3
173	Theoretical Pulsed Ring Down Antenna Array Performance. , 2007, , .		10
174	Electro-explosive fuse optimization for Helical Flux compression generator using a non-explosive test bed. , 2007, , .		1
175	Electrical and optical measurements of explosively driven plasma jets. , 2007, , .		0
176	Interface Breakdown During High-Power Microwave Transmission. IEEE Transactions on Magnetics, 2007, 43, 496-500.	2.1	52
177	A Bench Top Railgun With Distributed Energy Sources. IEEE Transactions on Magnetics, 2007, 43, 167-169.	2.1	9
178	An asynchronous free-running arc, distributed energy railgun. , 2007, , .		2
179	Evaluation of switch jitter in a high pressure coaxial spark gap. , 2007, , .		3
180	Contributing Factors to Window Flashover Under Pulsed High Power Microwave Excitation at High Altitude. , 2006, , .		2

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181	Pressure Induced Conductivity for High Power Switching. International Power Modulator Symposium and High-Voltage Workshop, 2006, , .	0.0	0
182	The Impact of Water Conductivity, Electrode Material, and Electrode Surface Roughness on the Pulsed Breakdown Strength of Water. , 2006, , .		6
183	Electro-Explosive Switches for Helical Flux Compression Generators. , 2006, , .		4
184	A Flux Compression Generator Non-Explosive Test Bed for Explosive Opening Switches. , 2006, , .		0
185	Design and implementation of a flux compression generator nonexplosive test bed for electroexplosive fuses. Review of Scientific Instruments, 2006, 77, 094702.	1.3	11
186	Pulsed Unipolar Surface Flashover at Atmospheric Conditions. International Power Modulator Symposium and High-Voltage Workshop, 2006, , .	0.0	4
187	Investigation of Charge Conduction and Self-Breakdown in Transformer Oil. , 2005, , .		2
188	Design and optimization of a compact, repetitive, high-power microwave system. Review of Scientific Instruments, 2005, 76, 104703.	1.3	54
189	Broadband Characterization of Transient Antennas. , 2005, , .		2
190	The Impact of Electrode Material on the Pulsed Breakdown Strength of Water. , 2005, , .		1
191	Bubble Dynamics and Channel Formation for Cathode Initiated Discharges in Transformer Oil. , 2005, , .		6
192	Composite Shadowgraphy and Luminosity Images of Self Breakdown Discharge Channels in Transformer Oil. , 2005, , .		2
193	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
194	Multistage Helical Flux Compression Generator Non-Explosive Test Bed. , 2005, , .		2
195	Shock Induced Conductivity for High Power Switching. , 2005, , .		0
196	High Power Microwave Surface Flashover of a Gas-Dielectric Interface at 90 to 760 Torr. , 2005, , .		2
197	Similarities of Dielectric Surface Flashover at Atmospheric Conditions for Pulsed Unipolar and RF Excitation. , 2005, , .		1
198	A Low-Cost Metallic Cathode for a Vircator HPM Source. , 2005, , .		2

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199	Design of Explosive-Driven Ferroelectric Pulse Generators with Outputs Exceeding 200 kV. , 2005, , .		6
200	A Compact, Repetitive, 500kV, 500 J, Marx Generator. , 2005, , .		35
201	Simulation Studies of Liquid Water Breakdown By a Sub-Microsecond Pulse. , 2005, , .		1
202	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
203	Microwave Frequency Determination Mechanisms in a Coaxial Vircator. IEEE Transactions on Plasma Science, 2004, 32, 1799-1804.	1.3	22
204	Completely explosive pulsed power minisystem. Review of Scientific Instruments, 2003, 74, 225-230.	1.3	23
205	Ultracompact explosive-driven high-current source of primary power based on shock wave demagnetization of Nd <sub>2</sub> Fe <sub>14</sub> B hard ferromagnetics. Review of Scientific Instruments, 2002, 73, 2738-2742.	1.3	36
206	Shock wave demagnetization of BaFe <sub>12</sub> O <sub>19</sub> hard ferrimagnetics. Journal of Applied Physics, 2002, 91, 3007-3009.	2.5	24
207	High Voltage, Sub Nanosecond Feedthrough Design for Liquid Breakdown Studies. AIP Conference Proceedings, 2002, , .	0.4	2
208	Liquid Nitrogen as Fast High Voltage Switching Medium. AIP Conference Proceedings, 2002, , .	0.4	1
209	Electrical behavior of a simple helical flux compression generator for code benchmarking. IEEE Transactions on Plasma Science, 2001, 29, 573-581.	1.3	26
210	Conductivity measurements of MFCG armature material under shock and high strain rates utilizing a split-hopkinson pressure bar apparatus. , 2001, , .		2
211	Pre-breakdown current behavior in DC volume breakdown in transformer oil. , 0, , .		3
212	Experimental and numerical investigation of armature/stator contact in magnetic flux compression generators. , 0, , .		1
213	Impact of helix geometry on MCG flux losses [magneto cumulative generators]. , 0, , .		0
214	The current mode of pulsed power generation in moving magnet systems. , 0, , .		1
215	High voltage testing of capacitors. , 0, , .		2
216	Calculation of air temperature and pressure history during the operation of a magnetic flux compression generator. , 0, , .		0

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217	Explosive-driven moving magnet generators. , 0, , .		2
218	Compact explosive driven shock wave ferromagnetic generators. , 0, , .		1
219	Calculation of air temperature and pressure history during the operation of a flux compression generator. , 0, , .		0
220	Feasibility study of an explosively formed transient antenna. , 0, , .		4
221	Microwave breakdown studies of He-N/sub 2/ mixtures in a pillbox cavity from 760 to 3040 torr. , 0, , .		0
222	Fast dielectric volume breakdown in liquid nitrogen. , 0, , .		1
223	Efficiency results from a coaxial vircator using a simple feedback technique. , 0, , .		10
224	Conductivity measurements of explosively shocked aluminum and OFHC copper used for armature material in a magnetic flux compression generator. , 0, , .		2
225	Ferromagnetic and ferroelectric materials as seed sources for magnetic flux compressors. , 0, , .		4
226	Short pulse electric field sterilization of liquid media. , 0, , .		3
227	Design criteria for prevention of armature "turn-skipping" in helical magnetic flux compression generators. , 0, , .		2
228	Phenomenology of conduction and breakdown in transformer oil. , 0, , .		0
229	Optical diagnostics of liquid nitrogen volume pre-breakdown events. , 0, , .		10
230	Surface flashover across ceramic disks in vacuum at cryogenic temperatures. , 0, , .		0
231	Light-matter interaction in transformer oil. , 0, , .		0
232	Effect of temperature and pressure on DC pre-breakdown current in transformer oil. , 0, , .		0
233	Nanosecond, optical diagnostics for liquid dielectric switches. , 0, , .		0
234	Voltage-current characteristic of transformer oil under high electrical stress. , 0, , .		0