

Edl Schamiloglu

List of Publications by Year in descending order

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335
papers

5,174
citations

126907

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g-index

343
all docs

343
docs citations

343
times ranked

2055
citing authors

#	ARTICLE	IF	CITATIONS
1	An advanced relativistic magnetron operating with a split cathode and separated anode segments. Journal of Applied Physics, 2022, 131, .	2.5	10
2	Modeling and Simulation of Relativistic Multiple Electron Beam Generation With Different Energies From a Single-Cathode Potential for High-Power Microwave Sources. IEEE Transactions on Electron Devices, 2022, 69, 1380-1388.	3.0	4
3	Multiple electron beam generation with different energies and comparable currents from a single cathode potential for high power traveling wave tubes (TWTs). Journal of Applied Physics, 2022, 131, .	2.5	7
4	RF generation using a compact bench gyromagnetic line. Review of Scientific Instruments, 2022, 93, 024704.	1.3	6
5	Metamaterial assisted microwave tubes: a review. Journal of Electromagnetic Waves and Applications, 2022, 36, 1189-1211.	1.6	3
6	Time-Varying Radiation Impedance of Microcontroller GPIO Ports and Their Dependence on Software Instructions. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 1147-1159.	2.2	1
7	Tunability Behavior of (Ba, Ca)(Zr, Ti)O Ceramic Capacitors Powered by Thermally Induced Phase Transitions With Applications to Nonlinear Transmission Lines. IEEE Transactions on Plasma Science, 2022, 50, 3371-3378.	1.3	2
8	Analysis of the sharpening effect in gyromagnetic nonlinear transmission lines using the unidimensional form of the Landau-Lifshitz-Gilbert equation. Review of Scientific Instruments, 2022, 93, .	1.3	1
9	Density Functional Theory Calculations Coupled with Monte Carlo Simulations for Prediction of Secondary Electron Yield from Metals, Alloys and Metal Oxides. , 2022, , .		0
10	Faraday Cup Measurements of Multiple Nanosecond Pulsed High-Current Electron Beam Generation from MICDS. , 2022, , .		0
11	Mode control by rearrangement of the slow wave structure in a 12-cavity relativistic magnetron with diffraction output using single-stepped cavities driven by a transparent cathode. AIP Advances, 2021, 11, .	1.3	3
12	First principles inelastic mean free paths coupled with Monte Carlo simulation of secondary electron yield of Cu-Ni, Cu-Zn, and Mo-Li. Journal of Applied Physics, 2021, 129, .	2.5	8
13	Modeling and Stability of a Laser Beam-Driven Sail. , 2021, , .		2
14	Application of High-Frequency Leakage Current Model for Characterizing Failure Modes in Digital Logic Gates. Energies, 2021, 14, 2906.	3.1	1
15	Clarifying Analytically Calculated Dispersion Relations of Finite-Length Overmoded Corrugated Cylindrical Azimuthally Symmetric Slow Wave Structures Using Numerical Simulations. IEEE Transactions on Electron Devices, 2021, 68, 2990-2995.	3.0	2
16	Experimental and numerical study of a split cathode fed relativistic magnetron. Journal of Applied Physics, 2021, 130, .	2.5	12
17	Material Selection for Axial Magnetization of a Gyromagnetic NTL for Space Applications. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2021, 20, 629-642.	0.7	3
18	An Axial Output Relativistic Magnetron Fed by a Split Cathode and Magnetically Insulated by a Low-Power Solenoid. IEEE Transactions on Electron Devices, 2021, 68, 5227-5231.	3.0	4

#	ARTICLE	IF	CITATIONS
19	PIC Simulation of the Coherent Cerenkov Cyclotron Radiation Excited by a High-Power Electron Beam in a Crossed-Elliptical Metamaterial Oscillator at S-Band. IEEE Transactions on Plasma Science, 2021, 49, 3351-3357.	1.3	3
20	Computational study of an overmoded, with diameter to wavelength ratio $\hat{\alpha} \approx 8$, slow-wave structure (SWS) of a relativistic backward-wave oscillator (BWO) operating in the E-band frequency range. , 2021, , .		0
21	Calculation of Secondary Electron Yield of Alloys: Single Pole Approximation. , 2021, , .		0
22	Operation Study of a Bench Compact Gyromagnetic NLTL. , 2021, , .		2
23	Predictive Modeling for Estimating the Limits for Nonpersistent Effects in MOSFET Response Under Large Signal Gate Injection. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 1763-1771.	2.2	2
24	Producing a magnetized low energy, high electron charge density state using a split cathode. Physics of Plasmas, 2020, 27, .	1.9	14
25	Experimental Testing of a 3-D-Printed Metamaterial Slow Wave Structure for High-Power Microwave Generation. IEEE Transactions on Plasma Science, 2020, 48, 4356-4364.	1.3	23
26	Operating characteristics of a clamp klystron oscillator with a sloping cavity at W-band. AIP Advances, 2020, 10, .	1.3	0
27	Short-pulse HPM measurements using a resistive sensor. IET Microwaves, Antennas and Propagation, 2020, 14, 1655-1661.	1.4	1
28	Research Status on Nonlinear Transmission Lines for RF Generation. , 2020, , .		0
29	Simulations of a W-Band Circular TWT. , 2019, , .		0
30	Recent Advances in Relativistic MDOs. , 2019, , .		0
31	A multibeam metamaterial backward wave oscillator. Physics of Plasmas, 2019, 26, .	1.9	10
32	Review of the relativistic magnetron. Matter and Radiation at Extremes, 2019, 4, .	3.9	55
33	A "crab-like" 12-cavity relativistic magnetron with diffraction output driven by a transparent cathode. Physics of Plasmas, 2019, 26, .	1.9	6
34	Low-Energy State Electron Beam in a Uniform Channel. Plasma, 2019, 2, 222-228.	1.8	5
35	Application of a Magnetic Mirror to Increase Total Efficiency in Relativistic Magnetrons. Physical Review Letters, 2019, 122, 224801.	7.8	55
36	Electromagnetic Compatibility in Leakage Current of CMOS Integrated Circuits. , 2019, , .		1

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37	A Novel Statistical Model for the Electromagnetic Coupling to Electronics inside Enclosures. , 2019, , .		2
38	Metamaterial-Inspired Vacuum Electron Devices and Accelerators. IEEE Transactions on Electron Devices, 2019, 66, 207-218.	3.0	48
39	Practical Constraints on Nonlinear Transmission Lines for RF Generation. IEEE Transactions on Plasma Science, 2019, 47, 1000-1016.	1.3	26
40	A "crab-like" relativistic magnetron with diffraction output driven by a transparent cathode. Physics of Plasmas, 2019, 26, .	1.9	4
41	High-Voltage Capacitive Nonlinear Transmission Lines for RF Generation Based on Silicon Carbide Schottky Diodes. IEEE Transactions on Plasma Science, 2019, 47, 566-573.	1.3	10
42	Realization of a Low Energy State of an Electron Beam in Uniform Channel. , 2018, , .		0
43	Coherent Cherenkov-cyclotron radiation excited by an electron beam in a two-spiral metamaterial waveguide. AIP Advances, 2018, 8, .	1.3	6
44	The Low-Energy State of an Electron Beam in a Coaxial Diode with a Homogeneous Anode and Inhomogeneous Magnetic Field Profile. Technical Physics Letters, 2018, 44, 949-952.	0.7	3
45	Analysis of Pulsed RF Signals Radiated from a Capacitive NLTL. , 2018, , .		0
46	RF Generation at 200 MHz Using a SiC Schottky Diode Lumped NLTL. , 2018, , .		2
47	Operating characteristics of a clamp klystron oscillator at E-band. Physics of Plasmas, 2018, 25, 073305.	1.9	1
48	Relativistic magnetron with diffraction output (MDO) with a permanent magnet anode block configuration. , 2018, , .		0
49	Hybrid Nonlinear Transmission Lines Used for RF Soliton Generation. IEEE Transactions on Plasma Science, 2018, 46, 3648-3652.	1.3	11
50	Operation of a Gyromagnetic Line at Low and High Voltages With Simultaneous Axial and Azimuthal Biases. IEEE Transactions on Plasma Science, 2018, 46, 2573-2581.	1.3	6
51	Study of Pulsed RF Signal Extraction and Irradiation from a Capacitive Nonlinear Transmission Line. International Journal of Advanced Engineering Research and Science, 2018, 5, 121-133.	0.1	6
52	Experimental Demonstration of a High-Efficiency Relativistic Magnetron With Diffraction Output With Spherical Cathode Endcap. IEEE Transactions on Plasma Science, 2017, 45, 282-288.	1.3	34
53	Recent advances in high power microwave sources and the science of electronics in extreme electromagnetic environments at the university of new mexico. , 2017, , .		1
54	Efficient relativistic magnetron with lengthy virtual cathode formed using the magnetic mirror effect. , 2017, , .		3

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55	Operation analysis of a novel concept of RF source known as gyromagnetic line. , 2017, , .		8
56	High power soliton generation using hybrid nonlinear transmission lines. , 2017, , .		0
57	A compact high-power microwave metamaterial slow-wave structure: From computational design to hot test validation. , 2017, , .		7
58	Multi-Beam MTM High Power Microwave Source. , 2017, , .		1
59	Experimental Hot Test Results from a Compact Metamaterial Slow Wave Structure*. , 2017, , .		0
60	Novel Relativistic Magnetron With Lengthy Virtual Cathode And Magnetic Mirror. , 2017, , .		0
61	Investigation of the operating characteristics of a 12 stepped-cavity relativistic magnetron with axial extraction driven by an α -transparent cathode using particle-in-cell simulations. Physics of Plasmas, 2016, 23, .	1.9	6
62	Design of a metamaterial slow wave structure for an O-type high power microwave generator. Physics of Plasmas, 2016, 23, .	1.9	40
63	High-Power RF Generation From Nonlinear Transmission Lines With Barium Titanate Ceramic Capacitors. IEEE Transactions on Plasma Science, 2016, 44, 3424-3431.	1.3	34
64	Simulation Studies of Distributed Nonlinear Gyromagnetic Lines Based on <i>LC</i> Lumped Model. IEEE Transactions on Plasma Science, 2016, 44, 2232-2239.	1.3	14
65	Similarity of Properties of Metamaterial Slow-Wave Structures and Metallic Periodic Structures. IEEE Transactions on Plasma Science, 2016, 44, 1280-1286.	1.3	24
66	A Compact Microsecond-Pulse Generator Used for Surface Dielectric Barrier Discharges. IEEE Transactions on Plasma Science, 2016, 44, 2072-2078.	1.3	22
67	Power Combiner for High Power Cerenkov Devices. IEEE Transactions on Plasma Science, 2016, 44, 2268-2271.	1.3	14
68	Lengthy virtual cathode as key to repetitive operation of relativistic magnetrons. , 2016, , .		0
69	Influence of Input Pulse Shape on RF Generation in Nonlinear Transmission Lines. IEEE Transactions on Plasma Science, 2016, 44, 2258-2267.	1.3	18
70	Designing of an O-type BWO with a metamaterial slow-wave structure. , 2016, , .		3
71	Optimizing the Parameters of a 12-Cavity Rising-Sun Relativistic Magnetron With Single-Stepped Cavities for π -Mode Operation. IEEE Transactions on Plasma Science, 2016, 44, 2852-2858.	1.3	11
72	Efficient power combiner for THz radiation. AIP Advances, 2016, 6, .	1.3	4

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73	Investigation of the operating characteristics of a 12-cavity rising-sun relativistic magnetron with diffraction output using particle-in-cell simulations. Physics of Plasmas, 2016, 23, .	1.9	10
74	Efficient Magnetron With a Virtual Cathode. IEEE Transactions on Plasma Science, 2016, 44, 1298-1302.	1.3	46
75	Relativistic vircator with an electromagnetic bandgap medium. , 2015, , .		0
76	High power microwave source loaded by a two-spiral metamaterial structure for Cherenkov radiation. , 2015, , .		0
77	Self-consistent evolution of plasma discharge and electromagnetic fields in a microwave pulse compressor. Physics of Plasmas, 2015, 22, .	1.9	7
78	Robert Barker Memorial Session: Leadership in Plasma Science and Applications. IEEE Transactions on Plasma Science, 2015, 43, 914-936.	1.3	9
79	Spice simulations of inductive Nonlinear Transmission Lines. , 2015, , .		4
80	Testing of the A6 magnetron with radial extraction on the pulserad electron beam accelerator. , 2015, , .		0
81	Evolution of wave dispersion in periodic structures with increasing amplitude of corrugation. , 2015, , .		0
82	High efficiency relativistic magnetron with diffraction output operating with a virtual cathode. , 2015, , .		0
83	Simulation of Secondary Electron and Backscattered Electron Emission in A6 Relativistic Magnetron Driven by Different Cathode. Plasma Science and Technology, 2015, 17, 64-70.	1.5	3
84	Operation Characteristics of a 12-Cavity Relativistic Magnetron When Considering Secondary and Backscattered Electronsâ€™ Emission. IEEE Transactions on Plasma Science, 2015, 43, 1855-1861.	1.3	11
85	Experimental Verification of a Stochastic Topology Approach for High-Power Microwave Effects. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 448-453.	2.2	16
86	Compact A6 magnetron with a neodymium permanent magnet. , 2015, , .		0
87	The HelCat basic plasma science device. Journal of Plasma Physics, 2015, 81, .	2.1	16
88	Overview of RF generation using nonlinear transmission lines. , 2015, , .		13
89	Multipactor Coating for Sapphire RF Windows Using Remote Plasma-Assisted Deposition. IEEE Transactions on Plasma Science, 2015, 43, 2571-2580.	1.3	1
90	Comparative study of 0Â° X-cut and Y + 36Â°-cut lithium niobate high-voltage sensing. Review of Scientific Instruments, 2015, 86, 085001.	1.3	1

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91	A repetitive microsecond pulse generator for atmospheric pressure plasma jets. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 1907-1915.	2.9	35
92	Operation of a Microwave Pulse Compressor With a Laser-Triggered Plasma Switch at Different Laser Beam Directions. IEEE Transactions on Plasma Science, 2015, 43, 2140-2145.	1.3	3
93	Spice simulations of nonlinear gyro-magnetic lines. , 2015, , .		4
94	Microwave breakdown of air at low pressure with a 5 ns, 35 GHz pulse. , 2014, , .		0
95	A Tribute to Dr. Robert (Bob) J. Barker 1949-2013. IEEE Transactions on Plasma Science, 2014, 42, 1482-1483.	1.3	1
96	Numerical simulations of microwave energy extraction from a high-gain, high-power pulse compressor with a plasma switch. , 2014, , .		0
97	Axial leakage current reduction in a 12-cavity rising-sun relativistic magnetron with a transparent cathode. , 2014, , .		1
98	Operation characteristics of a 12-cavity relativistic magnetron with diffraction output when considering secondary and backscattered electrons emission. , 2014, , .		0
99	Initial characterization of a modular Magnetically Insulated Line Oscillator. , 2014, , .		1
100	Assessing the role of secondary electron emission on the characteristics of 6-cavity magnetrons with transparent cathode through particle-in-cell simulations. Journal of Applied Physics, 2014, 115, .	2.5	9
101	Acoustically determined linear piezoelectric response of lithium niobate up to 1100 V. Applied Physics Letters, 2014, 104, .	3.3	5
102	Comparative study of lithium niobate crystal cuts for use as high-voltage acoustic wave sensors. , 2014, , .		0
103	Relativistic BWO with Gaussian beam extracted radially using an electromagnetic bandgap medium. , 2014, , .		1
104	Analysis of Quadrupole Focusing Lattices for Electron Beam Transport in Traveling-Wave Tubes. IEEE Transactions on Electron Devices, 2014, 61, 1865-1870.	3.0	47
105	Dual-Band Operation of Relativistic BWO With Linearly Polarized Gaussian Output. IEEE Transactions on Plasma Science, 2014, 42, 2141-2145.	1.3	28
106	Operation Characteristics of A6 Relativistic Magnetron Using Single-Stepped Cavities With Axial Extraction. IEEE Transactions on Plasma Science, 2014, 42, 3344-3348.	1.3	24
107	Temporal evolution of atmosphere pressure plasma jets driven by microsecond pulses with positive and negative polarities. Europhysics Letters, 2014, 107, 65004.	2.0	33
108	Two-dimensional single-stream electron motion in a coaxial diode with magnetic insulation. Physics of Plasmas, 2014, 21, .	1.9	5

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109	Numerical simulations of output pulse extraction from a high-power microwave compressor with a plasma switch. Journal of Applied Physics, 2014, 115, 173302.	2.5	3
110	Operation Characteristics of 12-Cavity Relativistic Magnetron With Single-Stepped Cavities. IEEE Transactions on Plasma Science, 2014, 42, 3283-3287.	1.3	23
111	Dispersion diagram modeling for a metamaterial-like slow-wave structure. , 2014, , .		3
112	RF Pulse Generator Based on a Nonlinear Hybrid Line. IEEE Transactions on Plasma Science, 2014, 42, 3268-3273.	1.3	11
113	Solid-State Bipolar Marx Modulator Modeling. IEEE Transactions on Plasma Science, 2014, 42, 3048-3056.	1.3	12
114	O-type oscillator with metamaterial-like slow-wave structure. , 2014, , .		2
115	Relativistic BWO With Linearly Polarized Gaussian Radiation Pattern. IEEE Transactions on Plasma Science, 2014, 42, 2135-2140.	1.3	12
116	A Cascaded Microsecond-Pulse Generator for Discharge Applications. IEEE Transactions on Plasma Science, 2014, 42, 1721-1728.	1.3	34
117	Oscillating Pulse Generator Based on a Nonlinear Inductive Line. IEEE Transactions on Plasma Science, 2013, 41, 2619-2624.	1.3	7
118	Analysis of quadrupole focusing lattices for electron beam transport in traveling-wave tubes. , 2013, , .		1
119	Locked generation in a relativistic TWT near the region of cyclotron suppression of parasitic feedback. , 2013, , .		0
120	Pulsed RF oscillations on a nonlinear capacitive transmission line. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1129-1135.	2.9	26
121	A Comparative Study of Water Electrodes Versus Metal Electrodes for Excitation of Nanosecond-Pulse Homogeneous Dielectric Barrier Discharge in Open Air. IEEE Transactions on Plasma Science, 2013, 41, 3069-3078.	1.3	28
122	Experimental study on conduction current of positive nanosecond-pulse diffuse discharge at atmospheric pressure. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1304-1314.	2.9	52
123	Experimental study of Q-V Lissajous figures in nanosecond-pulse surface discharges. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1101-1111.	2.9	89
124	A survey of narrowband IEMI global threats. , 2013, , .		0
125	Single/dual band relativistic BWO using electron beam magnetic field decompression. , 2013, , .		4
126	Generating RF pulses using a nonlinear hybrid line. , 2013, , .		0

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127	Design considerations in lossy dielectric nonlinear transmission lines. , 2013, , .		0
128	Design considerations in lossy dielectric nonlinear transmission lines. , 2013, , .		0
129	Generating RF pulses using a nonlinear hybrid line. , 2013, , .		1
130	Mode purification in a relativistic magnetron with diffraction output. , 2013, , .		0
131	A6 relativistic magnetron using a single-step cavity with diffraction output. , 2013, , .		3
132	PPPS-2013: UNM transparent cathode experiments revisited. , 2013, , .		0
133	Single-flow electron motion in a magnetized coaxial diode. , 2013, , .		0
134	Operating characteristics of modes in an A6 relativistic magnetron with a stepped cavity. , 2013, , .		0
135	Nanosecond-pulse diffuse discharge at atmospheric pressure. , 2012, , .		1
136	Prospects of building capacitive nonlinear lines using ceramic PZT for high-frequency operation. , 2012, , .		4
137	Surface modification of polymers by a nanosecond-pulse plasma jet. , 2012, , .		5
138	Recent advances in relativistic A6 magnetron research — Improvements in start-up and efficiency. , 2012, , .		1
139	Experimental demonstration of the output characteristics of the A6 magnetron on Pulserad 110a, a very short rise-time accelerator at UNM. , 2012, , .		3
140	Compact A6 magnetron with permanent magnet. , 2012, , .		1
141	Recent advances in relativistic A6 magnetron research - mode control. , 2012, , .		0
142	Compact Relativistic Magnetron With Gaussian Radiation Pattern. IEEE Transactions on Plasma Science, 2012, 40, 3116-3120.	1.3	32
143	Frequency Switching in a 12-Cavity Relativistic Magnetron With Axial Extraction of Radiation. IEEE Transactions on Plasma Science, 2012, 40, 1569-1574.	1.3	21
144	X-band relativistic backward wave oscillator with two-spiral corrugated Bragg reflector. , 2012, , .		4

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145	Quadrupole strong focusing transport for a Ka-band coupled cavity traveling wave tube amplifier. , 2012, , .		1
146	Generating oscillating pulses using nonlinear capacitive transmission lines. , 2012, , .		6
147	X-band tunable relativistic BWO with linearly polarized Gaussian radiation. , 2012, , .		1
148	Study on Q-V Lissajous figures in nanosecond-pulsed surface discharge. , 2012, , .		1
149	Suppression of Leakage Current in a Relativistic Magnetron Using a Novel Design Cathode Endcap. IEEE Transactions on Plasma Science, 2012, 40, 2089-2093.	1.3	19
150	Dual-Mode Reltron. IEEE Transactions on Plasma Science, 2012, 40, 2083-2088.	1.3	16
151	Recent trends in high power microwave source research: Multispectral and phase coherent solutions. , 2012, , .		2
152	Circuit Modeling of Nonlinear Lumped Element Transmission Lines Including Hybrid Lines. IEEE Transactions on Plasma Science, 2012, 40, 2523-2534.	1.3	43
153	A repetitive microsecond-pulse generator for plasma application. , 2012, , .		3
154	Suppression of leakage current in a relativistic magnetron using a novel cathode endcap design. , 2011, , .		1
155	A Hyperband Antenna to Launch and Focus Fast High-Voltage Pulses Onto Biological Targets. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1090-1101.	4.6	38
156	RF input for relativistic sectioned amplifiers. , 2011, , .		0
157	3D ICEPIC simulations of a pulsed relativistic magnetron with transparent cathode: A comparative study. , 2011, , .		0
158	Hysteresis dependence of mode separation on time-varying applied voltage in a magnetron with diffraction output. , 2011, , .		0
159	Compact relativistic magnetron with gaussian beam radiation pattern. , 2011, , .		0
160	Frequency switching in a relativistic magnetron with diffraction output. , 2011, , .		5
161	Advances in High-Voltage Modulators for Applications in Pulsed Power and Plasma-Based Ion Implantation. IEEE Transactions on Plasma Science, 2011, 39, 3033-3044.	1.3	32
162	Effects of Laser Surface Modification on Secondary Electron Emission of Copper. IEEE Transactions on Plasma Science, 2011, 39, 836-841.	1.3	22

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163	A Fan-Beam Radiator Using Waveguide's Narrow Wall for Horizontal Polarization and High Power. IEEE Transactions on Electromagnetic Compatibility, 2011, 53, 380-389.	2.2	11
164	Circuit modeling of nonlinear lumped element transmission lines. , 2011, , .		7
165	Experimental demonstration of nonlinear lumped element transmission lines using COTS components. , 2011, , .		8
166	Modeling of a solid-state Marx generator with parasitic capacitances for optimization studies. , 2011, , .		2
167	Carl E. Baum: The University of New Mexico years. , 2011, , .		0
168	Frequency switching in a relativistic magnetron with diffraction output. Journal of Applied Physics, 2011, 110, .	2.5	21
169	Dual cavity reltron. , 2011, , .		6
170	An iterative search algorithm for designing the bend of an H -plane bend radiator. International Journal of RF and Microwave Computer-Aided Engineering, 2010, 20, 567-576.	1.2	0
171	Experimental results for a graded dielectric focusing lens. , 2010, , .		0
172	Dispersion relation of the electron beam inside reltron cavity. , 2010, , .		0
173	Mode switching in the A6 magnetron. , 2010, , .		1
174	rf mode switching in a relativistic magnetron with diffraction output. Applied Physics Letters, 2010, 97, .	3.3	54
175	Photon Initiated Thyristor Switches. , 2010, , .		0
176	Increased efficiency and faster turn-on in magnetrons using the transparent cathode. , 2010, , .		6
177	Studies of 2D child langmuir space-charge-limited current using ICEPIC. , 2010, , .		0
178	P3-25: Influence of implementing straps on pulsed relativistic magnetron operation. , 2010, , .		3
179	21.3: Mode separation in a magnetron with diffraction output driven by a transparent cathode. , 2010, , .		1
180	A prolate-spheroidal impulse-radiating antenna system to launch and focus 100-ps pulses for melanoma treatment. , 2010, , .		1

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181	Experimental Study of a Relativistic Resonant Traveling-Wave Tube With Selective Feedback Provided by Bragg Reflectors. IEEE Transactions on Plasma Science, 2010, 38, 1255-1263.	1.3	7
182	Graded dielectric lens to match 100 ps pulses into biological targets. , 2010, , .		0
183	Radially Inhomogeneous Spherical Dielectric Lens for Matching 100-ps Pulses Into Biological Targets. IEEE Transactions on Plasma Science, 2010, 38, 1915-1927.	1.3	9
184	70% Efficient Relativistic Magnetron With Axial Extraction of Radiation Through a Horn Antenna. IEEE Transactions on Plasma Science, 2010, 38, 1302-1312.	1.3	139
185	Investigation of switch designs for a prolate-spheroidal impulse radiating antenna. , 2010, , .		0
186	Design of a uniform electromagnetic dielectric lens for launching an approximate spherical tem wave. , 2009, , .		1
187	Design of a special dielectric lens for concentrating a subnanosecond electromagnetic pulse on a biological target. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 1364-1375.	2.9	22
188	Electromagnetic Modeling of Hot-Wire Detonators. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 1707-1713.	4.6	19
189	A control theory approach on the design of a Marx generator network. , 2009, , .		11
190	Impact of Spent Electrons on BWO Operation. IEEE Transactions on Plasma Science, 2009, 37, 560-567.	1.3	11
191	Experimental verification of the advantages of the transparent cathode in a short-pulse magnetron. , 2009, , .		11
192	High efficiency relativistic magnetron with diffraction output. , 2009, , .		1
193	High efficiency relativistic magnetron with diffraction output. , 2009, , .		0
194	The Dose Effect in Secondary Electron Emission. IEEE Transactions on Plasma Science, 2009, 37, 1537-1551.	1.3	6
195	Limitations to compacting a parallel-plate Blumlein pulse-forming line. International Journal of RF and Microwave Computer-Aided Engineering, 2008, 18, 176-186.	1.2	7
196	Focal waveforms for various source waveforms driving a prolate-spheroidal impulse radiating antenna (IRA). Radio Science, 2008, 43, n/a-n/a.	1.6	16
197	Effects of frequency chirp on magnetron injection locking. Physics of Plasmas, 2008, 15, 073110.	1.9	15
198	Nonlinear Transmission Lines for High Power Microwave Applications - A Survey. , 2008, , .		28

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199	Amplification and frequency-locking in a TWT using cyclotron depression of positive feedback. , 2008, , .		0
200	Simulation Studies for Nonlinear-Transmission-Line Based Ultrafast Rise Times and Waveform Shaping for Pulsed-Power Applications. IEEE Transactions on Plasma Science, 2008, 36, 2618-2625.	1.3	4
201	Magnetron experiments on the short-pulse “SINUS-6” accelerator. , 2008, , .		4
202	Electromagnetic Implosion Using an Array. IEEE Transactions on Plasma Science, 2008, 36, 757-762.	1.3	7
203	Characterization of Hot-Wire Detonators Using Analytical Modeling and Computational Tools. , 2008, , .		3
204	Analytical calculations of a lens for better focusing the fields from a prolate-spheroidal reflector. , 2008, , .		2
205	Short-Pulse Accelerators at UNM for Magnetron Experiments. , 2008, , .		0
206	Recent paraxial diode experiments on RITS-6. , 2008, , .		0
207	Analytical and numerical calculation for the focal waveform of a prolate-spheroidal IRA. , 2007, , .		0
208	Impulsive field near the second focus along the symmetry axis of a prolate-spheroidal IRA. , 2007, , .		0
209	Study of Statistical Electromagnetics and Modeling of Surrogate IED Blasting Caps. , 2007, , .		0
210	Impulsive Field Near the Second Focus Along the Symmetry Axis of a Prolate-Spheroidal IRA. , 2007, , .		0
211	Characterization of the Dose Effect in Secondary Electron Emission. , 2007, , .		0
212	Measurements of the I-V Characteristic of Short-Pulse (10-15 ns) Electron Beams. , 2007, , .		2
213	Magnetron Studies in Phase and Frequency Locking. , 2007, , .		1
214	Investigation of Interaction of an Electron Beam and Metallic Grating in a Smith-Purcell Free Electron Laser (SPFEL). , 2007, , .		0
215	Academician Sergei D. Korovin: A Shortened Career in High Power Microwaves. , 2007, , .		0
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