

Ronald Gilgenbach

List of Publications by Year in descending order

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245
papers

4,195
citations

117453

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#	ARTICLE	IF	CITATIONS
1	Multipactor Suppression in S-band Coaxial Transmission Lines. , 2022, , .		0
2	Multi-Frequency Harmonic Magnetically Insulated Line Oscillator. , 2022, , .		0
3	Dual Recirculating Planar Crossed-Field Amplifier Design. , 2022, , .		0
4	Explicit Brillouin Flow Solutions in Magnetrons, Magnetically Insulated Line Oscillators, and Radial Magnetically Insulated Transmission Lines. IEEE Transactions on Plasma Science, 2021, 49, 3418-3437.	0.6	18
5	Sodium tracer measurements of an expanded dense aluminum plasma from e-beam isochoric heating. Physics of Plasmas, 2021, 28, .	0.7	1
6	Load dynamics of double planar foil liners and double planar wire arrays on the UM MAIZE LTD generator. Physics of Plasmas, 2021, 28, 082702.	0.7	2
7	Recent Experiments on the S-Band Coaxial Multipactor Test Cell*. , 2021, , .		0
8	Experiments on a 10 kA, 240 kV Magnetically Insulated Line Oscillator (MILO). , 2021, , .		1
9	Measurements of the Breakdown Threshold for Coaxial Multipactor and the Delay for Multipactor Onset. , 2021, , .		1
10	Feedback Effects on a Recirculating Planar Crossed-Field Amplifier (RPCFA). , 2021, , .		2
11	Theory, Simulation, and Experiments on Moderate-Current Magnetically Insulated Line Oscillators. , 2021, , .		0
12	Driving a Magnetically Insulated Line Oscillator with a Linear Transformer Driver. , 2021, , .		0
13	Theory, simulation, and experiments on a magnetically insulated line oscillator (MILO) at 10 kA, 240 kV near Hull cutoff condition. Physics of Plasmas, 2021, 28, .	0.7	11
14	Multipactor experiments on an S-band coaxial test cell. Review of Scientific Instruments, 2021, 92, 124706.	0.6	9
15	High-Power Amplification Experiments on a Recirculating Planar Crossed-Field Amplifier. IEEE Transactions on Plasma Science, 2020, 48, 1917-1922.	0.6	5
16	Frequency and Power Measurements on the Harmonic Recirculating Planar Magnetron. IEEE Transactions on Plasma Science, 2020, 48, 1868-1878.	0.6	3
17	HFSS and CST Simulations of a CW-Class MILO. IEEE Transactions on Plasma Science, 2020, 48, 1894-1901.	0.6	14
18	Brazed carbon fiber fabric field emission cathode. Review of Scientific Instruments, 2020, 91, 064702.	0.6	6

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19	CST Particle Studio Simulations of Coaxial Multipactor and Comparison With Experiments. IEEE Transactions on Plasma Science, 2020, 48, 1942-1949.	0.6	24
20	Experiments on the Recirculating Planar Magnetron with Coaxial All-Cavity Extraction. , 2020, , .		1
21	Simulations and Experiments on Magnetically Insulated Line Oscillators at the University of Michigan. , 2020, , .		0
22	Design, Simulation, and Testing of an S-Band Coaxial Multipactor Test-Cell. , 2020, , .		1
23	Controlled Harmonic Frequency Locking in the Harmonic Recirculating Planar Magnetron. , 2020, , .		0
24	Multipactor Effects on Signal Quality in Transmission Lines with Impedance Mismatches. , 2020, , .		0
25	The Effect of Multipactor on the Quality of a Signal. , 2019, , .		0
26	Optimization of switch diagnostics on the MAIZE linear transformer driver. Review of Scientific Instruments, 2019, 90, 124707.	0.6	3
27	The effects of multipactor on the quality of a complex signal propagating in a transmission line. Physics of Plasmas, 2019, 26, .	0.7	37
28	Evolution of sausage and helical modes in magnetized thin-foil cylindrical liners driven by a Z-pinch. Physics of Plasmas, 2018, 25, 056307.	0.7	32
29	Origin of Second-Harmonic Signals in Octave Bandwidth Traveling-Wave Tubes. IEEE Transactions on Electron Devices, 2018, 65, 710-715.	1.6	5
30	Pulse Shortening in Recirculating Planar Magnetrons. IEEE Transactions on Electron Devices, 2018, 65, 2354-2360.	1.6	4
31	The electro-thermal stability of tantalum relative to aluminum and titanium in cylindrical liner ablation experiments at 550 kA. Physics of Plasmas, 2018, 25, 032701.	0.7	14
32	A Primer on Pulsed Power and Linear Transformer Drivers for High Energy Density Physics Applications. IEEE Transactions on Plasma Science, 2018, 46, 3928-3967.	0.6	57
33	Zeeman spectroscopy as a method for determining the magnetic field distribution in self-magnetic-pinch diodes (invited). Review of Scientific Instruments, 2018, 89, 10D123.	0.6	4
34	The Electrothermal Instability on Pulsed Power Ablations of Thin Foils. IEEE Transactions on Plasma Science, 2018, 46, 3753-3765.	0.6	14
35	Studies of Implosion and Radiative Properties of Tungsten Planar Wire Arrays on Michigan's Linear Transformer Driver Pulsed-Power Generator. IEEE Transactions on Plasma Science, 2018, 46, 3778-3788.	0.6	3
36	Diagnostic and Power Feed Upgrades to the MAIZE Facility. IEEE Transactions on Plasma Science, 2018, 46, 3973-3981.	0.6	9

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37	Harmonic Frequency Locking in the Multifrequency Recirculating Planar Magnetron. IEEE Transactions on Electron Devices, 2018, 65, 2347-2353.	1.6	9
38	Origin of second harmonic signals in octave bandwidth traveling-wave tubes. , 2018, , .		1
39	Harmonic-frequency locking in planar magnetrons. , 2018, , .		0
40	High-Power Recirculating Planar Crossed-Field Amplifier Design and Development. IEEE Transactions on Electron Devices, 2018, 65, 2361-2365.	1.6	8
41	On the evaluation of Pierce parameters C and Q in a traveling wave tube. Physics of Plasmas, 2017, 24, .	0.7	15
42	Plasma-Based Pulse Shortening In The Recirculating Planar Magnetron*. , 2017, , .		1
43	Parametric investigation of the multi-frequency recirculating planar magnetron. , 2017, , .		0
44	Research and Development of the Recirculating Planar Crossed-Field Amplifier. , 2017, , .		0
45	Experimental Investigation of Magnetized Liner Implosions on A 1-MA Linear Transformer Driver*. , 2017, , .		0
46	Additively manufactured anodes in a relativistic Planar Magnetron. , 2016, , .		3
47	Experimental investigation of the effects of an axial magnetic field on the magneto Rayleigh-Taylor, sausage and kink instabilities in imploding liner-plasmas. , 2016, , .		0
48	Multi-frequency recirculating planar magnetrons. Applied Physics Letters, 2016, 109, .	1.5	15
49	Discrete helical modes in imploding and exploding cylindrical, magnetized liners. Physics of Plasmas, 2016, 23, .	0.7	30
50	Harmonic frequency generation in the multi-frequency recirculating planar magnetron. , 2016, , .		1
51	Seeded and unseeded helical modes in magnetized, non-imploding cylindrical liner-plasmas. Physics of Plasmas, 2016, 23, .	0.7	24
52	Determination of plasma pinch time and effective current radius of double planar wire array implosions from current measurements on a 1-MA linear transformer driver. Physics of Plasmas, 2016, 23, .	0.7	11
53	Harmonic generation under small signal conditions in a traveling wave tube. , 2016, , .		1
54	Experimental harmonic characterization in the Multi-Frequency Recirculating Planar Magnetron. , 2016, , .		2

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55	Double and Single Planar Wire Arrays on University-Scale Low-Impedance LTD Generator. IEEE Transactions on Plasma Science, 2016, 44, 432-440.	0.6	9
56	Absolute instability near TWT band edges. , 2016, , .		4
57	Additively manufactured structures for high power microwave devices. , 2016, , .		1
58	Stability of Brillouin flow in slow-wave structures. , 2016, , .		0
59	Stability of Brillouin flow in the presence of slow-wave structure. Physics of Plasmas, 2016, 23, .	0.7	11
60	Additively Manufactured High Power Microwave Anodes. IEEE Transactions on Plasma Science, 2016, 44, 1258-1264.	0.6	7
61	Analysis of current crowding in thin film contacts from exact field solution. Journal Physics D: Applied Physics, 2015, 48, 475501.	1.3	34
62	Stability of Brillouin flow in planar, conventional, and inverted magnetrons. Physics of Plasmas, 2015, 22, .	0.7	12
63	Technique for fabrication of ultrathin foils in cylindrical geometry for liner-plasma implosion experiments with sub-megaampere currents. Review of Scientific Instruments, 2015, 86, 113506.	0.6	12
64	Comparison of horizontal and vertical thin film contact. , 2015, , .		0
65	Experimental investigation of the effects of an axial magnetic field on the magneto Rayleigh-Taylor instability in ablating planar foil plasmas. , 2015, , .		0
66	Magnetic field measurements on the self magnetic pinch diode at SNL using Zeeman splitting. , 2015, , .		0
67	Negative mass effects in Brillouin flows. , 2015, , .		0
68	Experimental microwave power extraction in the Multi-Frequency Recirculating Planar Magnetron. , 2015, , .		0
69	Experimental progress on a prototype multifrequency recirculating planar magnetron. , 2015, , .		1
70	Enhancement of coherent Smith-Purcell radiation at THz frequency. , 2015, , .		0
71	Z-Pinch plasma instability experiments on the UM linear transformer driver. , 2015, , .		0
72	Absolute Instability near the Band Edge of Traveling-Wave Amplifiers. Physical Review Letters, 2015, 115, 124801.	2.9	31

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73	Harmonic Content in the Beam Current in a Traveling-Wave Tube. IEEE Transactions on Electron Devices, 2015, 62, 4285-4292.	1.6	17
74	Absolute instability at the band edges in linear beam traveling wave tubes. , 2015, , .		0
75	Microwave Power and Phase Measurements on a Recirculating Planar Magnetron. IEEE Transactions on Plasma Science, 2015, 43, 1675-1682.	0.6	14
76	Coupling of sausage, kink, and magneto-Rayleigh-Taylor instabilities in a cylindrical liner. Physics of Plasmas, 2015, 22, .	0.7	40
77	Temporal evolution of surface ripples on a finite plasma slab subject to the magneto-Rayleigh-Taylor instability. Physics of Plasmas, 2014, 21, .	0.7	19
78	Brillouin flow in recirculating planar magnetron. , 2014, , .		0
79	High power microwave generation and mitigation. , 2014, , .		0
80	Multipactor-susceptible RF windows as power-tunable microwave limiters. , 2013, , .		0
81	Passive mode control in the recirculating planar magnetron. Physics of Plasmas, 2013, 20, 033108.	0.7	18
82	Recirculating-Planar-Magnetron Simulations and Experiment. IEEE Transactions on Plasma Science, 2013, 41, 639-645.	0.6	28
83	A voltage scale for electro-thermal runaway. , 2013, , .		0
84	Development of a compact LTD pulse generator for X-ray backlighting of planar foil ablation experiments. , 2013, , .		1
85	Magneto-Rayleigh-Taylor experiments on a MegaAmpere linear transformer driver. Physics of Plasmas, 2012, 19, 032701.	0.7	30
86	Effects of magnetic shear on magneto-Rayleigh-Taylor instability. Physics of Plasmas, 2012, 19, .	0.7	33
87	Microwave oscillation in a recirculating planar magnetron. , 2012, , .		1
88	Recirculating Planar Magnetrons: Simulations and experiment. , 2012, , .		1
89	A Pi-mode extraction scheme for the axial B-field recirculating planar magnetron. , 2012, , .		5
90	An unnoticed property of the cylindrical relativistic Brillouin flow. Physics of Plasmas, 2012, 19, .	0.7	9

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91	Plasma Pinch Research on University Pulsed-Power Generators in the United States. IEEE Transactions on Plasma Science, 2012, 40, 3246-3264.	0.6	45
92	Design and preliminary results of a recyclable transmission line testing experiment. , 2012, , .		0
93	Microwave plasma window breakdown theory and experiments. , 2012, , .		0
94	Contact Resistance with Dissimilar Materials: Bulk Contacts and Thin Film Contacts. , 2011, , .		4
95	Recirculating planar magnetrons: Simulations and experiment. , 2011, , .		2
96	Thin film contact resistance with dissimilar materials. Journal of Applied Physics, 2011, 109, .	1.1	25
97	Recirculating Planar Magnetrons for High-Power High-Frequency Radiation Generation. IEEE Transactions on Plasma Science, 2011, 39, 980-987.	0.6	47
98	Anisotropy and feedthrough in magneto-Rayleigh-Taylor instability. Physical Review E, 2011, 83, 066405.	0.8	53
99	Multipactor susceptibility on a dielectric with a bias dc electric field and a background gas. Physics of Plasmas, 2011, 18, .	0.7	65
100	Minimization of thin film contact resistance. Applied Physics Letters, 2010, 97, .	1.5	17
101	Peer-to-peer locking of magnetrons: Analysis and experiment. , 2010, , .		1
102	Nonlinear transmission lines with saturable ferrite inductors. , 2010, , .		0
103	High-Current Linear Transformer Driver Development at Sandia National Laboratories. IEEE Transactions on Plasma Science, 2010, 38, 704-713.	0.6	98
104	Counter-HPM window experiments and theory. , 2010, , .		0
105	Temporal and spatial locking of nonlinear systems. Applied Physics Letters, 2010, 97, .	1.5	5
106	Negative, positive, and infinite mass properties of a rotating electron beam. Applied Physics Letters, 2010, 97, .	1.5	18
107	High power nonlinear transmission lines with nonlinear inductance. , 2010, , .		7
108	Recirculating planar magnetrons for HPM and millimeter-wave generation. , 2010, , .		1

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109	A re-examination of the Buneman-Hartree condition in a cylindrical smooth-bore relativistic magnetron. <i>Physics of Plasmas</i> , 2010, 17, 033102.	0.7	32
110	P4-17: Recent advances on electrical contact resistance: Theory and experiment. , 2010, , .		0
111	21.2: Electron dynamics and fast startup in inverted magnetrons. , 2010, , .		0
112	21.1: Recirculating-planar-magnetrons for high power, high-frequency radiation generation. , 2010, , .		1
113	21.5: Buneman-Hartree condition revisited. , 2010, , .		0
114	Three-Dimensional Simulations of Magnetic Priming of a Relativistic Magnetron. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 1292-1301.	0.6	10
115	Recent advances on electrical contact resistance: Theory and experiment. , 2010, , .		1
116	Post-hole convolute studies on the Z machine at SNL and maize at U of M. , 2010, , .		0
117	An experimental investigation of the magneto-Rayleigh-Taylor instability using thin foils driven by A1-MA Ltd. , 2010, , .		0
118	Azimuthally correlated ablation between z-pinch wire cores. <i>Physics of Plasmas</i> , 2009, 16, 102702.	0.7	9
119	Lumped circuit elements, statistical analysis, and radio frequency properties of electrical contact. <i>Journal of Applied Physics</i> , 2009, 106, 084904.	1.1	2
120	Experiments on the UM 1-MA linear transformer driver facility. , 2009, , .		0
121	Development and tests of fast 1-MA linear transformer driver stages. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2009, 12, .	1.8	139
122	Magneto-rayleigh-taylor instabilities on thin foils driven by a 1-MA LTD. , 2009, , .		0
123	Experimental validation of a higher dimensional theory of electrical contact resistance. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	18
124	RF power loss, local electric and magnetic field enhancement due to surface roughness. , 2009, , .		0
125	Analysis of radio-frequency absorption and electric and magnetic field enhancements due to surface roughness. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	30
126	Conductive versus capacitive coupling for cell electroporation with nanosecond pulses. <i>Journal of Applied Physics</i> , 2009, 106, 074701.	1.1	10

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127	Experimental study of plasma evolution in a single post-hole convolute on a 1 MA linear transformer driver. , 2009, , .		0
128	Experiments on peer-to-peer locking of magnetrons. Applied Physics Letters, 2009, 95, .	1.5	31
129	Peer-to-peer locking of magnetrons: Analysis and experiment. , 2009, , .		0
130	Theory and experimental measurements of contact resistance. , 2009, , .		3
131	Recent progress on relativistic magnetrons. , 2009, , .		0
132	RF power absorption and electric and magnetic field enhancements due to surface roughness. , 2009, , .		0
133	MAIZE: a 1 MA LTD-Driven Z-Pinch at The University of Michigan. , 2009, , .		32
134	Electron emission near a triple point. , 2008, , .		0
135	Electron Emission near a Triple Point. , 2008, , .		0
136	Effect of Random Circuit Fabrication Errors on Small-Signal Gain and Phase in Traveling-Wave Tubes. IEEE Transactions on Electron Devices, 2008, 55, 916-924.	1.6	26
137	Magnetic Priming at the Cathode of a Relativistic Magnetron. IEEE Transactions on Plasma Science, 2008, 36, 710-717.	0.6	27
138	Analysis of peer-to-peer locking of magnetrons. Physics of Plasmas, 2008, 15, .	0.7	16
139	Effects of frequency chirp on magnetron injection locking. Physics of Plasmas, 2008, 15, 073110.	0.7	15
140	Effect of random circuit fabrication errors on small signal gain and phase in traveling wave tubes. , 2008, , .		1
141	Effects of frequency chirp on magnetron injection locking. , 2008, , .		0
142	A higher dimensional theory of contact resistance. , 2008, , .		0
143	Wire-Tension Effects on Plasma Dynamics in a Two-Wire Z-Pinch. IEEE Transactions on Plasma Science, 2008, 36, 1284-1285.	0.6	6
144	Wire Contact Resistance Effects in a Multiwire Z-Pinch. , 2007, , .		0

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145	Metal-Oxide-Junction, Triple-Point Cathodes for High Current Vacuum Electron Devices. , 2007, , .		0
146	Design of a MITL for a 1 MA LTD driving a wire array z-pinch load. , 2007, , .		0
147	Effects of Circuit Manufacturing Errors on Small Signal Gain and Phase in a Traveling Wave Tube. , 2007, , .		0
148	Performance and analysis of an electron cyclotron resonance plasma cathode. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 781-790.	0.9	9
149	Electric field and electron orbits near a triple point. Journal of Applied Physics, 2007, 102, .	1.1	91
150	Design of a MITL for a 1 MA LTD Driving a Wire Array Z-Pinch Load. , 2007, , .		1
151	Power Absorption by Dielectric Contaminants in High Power Microwave Systems. International Power Modulator Symposium and High-Voltage Workshop, 2006, , .	0.0	0
152	Implications of a simple mathematical model to cancer cell population dynamics. Cell Proliferation, 2006, 39, 15-28.	2.4	22
153	Modeling and Experimental Studies of Magnetron Injection Locking. IEEE International Conference on Plasma Science, 2005, , .	0.0	2
154	The Ohmic heating of particulates in a lossless medium. Journal of Applied Physics, 2005, 97, 114915.	1.1	13
155	Incorporating spatial dependence into a multicellular tumor spheroid growth model. Journal of Applied Physics, 2005, 98, 124701.	1.1	14
156	Azimuthal clumping instabilities in a Z-pinch wire array. Physics of Plasmas, 2005, 12, 052701.	0.7	3
157	Magnetron priming by multiple cathodes. Applied Physics Letters, 2005, 87, 081501.	1.5	33
158	Effects of Wire Morphology on Plasma Instability in Z-Pinches. , 2005, , .		0
159	Extraction of Electron Current from the UM Large Area, ECR Plasma Neutralizer. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
160	Modeling and experimental studies of magnetron injection locking. Journal of Applied Physics, 2005, 98, 114903.	1.1	44
161	Simulation of rapid startup in microwave magnetrons with azimuthally varying axial magnetic fields. Applied Physics Letters, 2004, 84, 1016-1018.	1.5	41
162	Heating of a particulate by radio-frequency electric and magnetic fields. Applied Physics Letters, 2004, 85, 3319-3321.	1.5	16

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163	Projection ablation lithography cathode for high-current, relativistic magnetron. Review of Scientific Instruments, 2004, 75, 2976-2980.	0.6	43
164	Cathode priming of a relativistic magnetron. Applied Physics Letters, 2004, 85, 6332-6334.	1.5	56
165	Three-dimensional particle-in-cell simulations of rapid start-up in strapped oven magnetrons due to variation in the insulating magnetic field. Applied Physics Letters, 2004, 84, 5425-5427.	1.5	27
166	Limiting current in a relativistic diode under the condition of magnetic insulation. Physics of Plasmas, 2003, 10, 4489-4493.	0.7	16
167	Low-noise microwave magnetrons by azimuthally varying axial magnetic field. Applied Physics Letters, 2003, 83, 1938-1940.	1.5	59
168	Caterpillar structures in single-wire Z-pinch experiments. Applied Physics Letters, 2003, 83, 4915-4917.	1.5	9
169	Microwave absorption on a thin film. Applied Physics Letters, 2003, 82, 1353-1355.	1.5	113
170	Diagnostic characterization of ablation plasma ion implantation. Journal of Applied Physics, 2003, 93, 8876-8883.	1.1	13
171	Extraction of ions from the matrix sheath in ablation-plasma ion implantation. Applied Physics Letters, 2001, 78, 706-708.	1.5	12
172	Multipactor experiment on a dielectric surface. Review of Scientific Instruments, 2001, 72, 3095-3099.	0.6	25
173	Ablation plasma ion implantation experiments: Measurement of Fe implantation into Si. Applied Physics Letters, 2001, 78, 3785-3787.	1.5	10
174	<title>Application of time-frequency analysis to high-power microwave devices</title>. , 2000, 4116, 1.		2
175	Radio-frequency plasma cleaning for mitigation of high-power microwave-pulse shortening in a coaxial gyrotron. Applied Physics Letters, 2000, 77, 3725-3727.	1.5	14
176	Effects of an external magnetic field, and of oblique radio-frequency electric fields on multipactor discharge on a dielectric. Physics of Plasmas, 2000, 7, 750-757.	0.7	92
177	Radio frequency plasma processing effects on the emission characteristics of a MeV electron beam cathode. Applied Physics Letters, 1999, 75, 31-33.	1.5	10
178	Resonant absorption of a short-pulse laser in a doped dielectric. Applied Physics Letters, 1999, 74, 2912-2914.	1.5	1
179	Electron beam ablation of materials. Journal of Applied Physics, 1999, 86, 7129-7138.	1.1	32
180	Multipactor discharge on metals and dielectrics: Historical review and recent theories. Physics of Plasmas, 1998, 5, 2120-2126.	0.7	292

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181	Surface instability of multipulse laser ablation on a metallic target. Journal of Applied Physics, 1998, 83, 4466-4471.	1.1	51
182	Time-frequency analysis of modulation of high-power microwaves by electron-beam voltage fluctuations. Physical Review E, 1998, 58, 6880-6883.	0.8	25
183	Dynamics of electron beam ablation of silicon dioxide measured by dye laser resonance absorption photography. Applied Physics Letters, 1998, 73, 2576-2578.	1.5	9
184	Analysis of laser absorption on a rough metal surface. Applied Physics Letters, 1997, 70, 696-698.	1.5	92
185	Two-Dimensional Child-Langmuir Law. Physical Review Letters, 1996, 77, 4668-4670.	2.9	173
186	Ionization dynamics of iron plumes generated by laser ablation versus a laser-assisted plasma discharge ion source. Journal of Applied Physics, 1996, 79, 2287-2295.	1.1	9
187	Effects of laser ablation target damage on particulate production investigated by laser scattering with deposited thin film and target analysis. Applied Physics Letters, 1996, 68, 3245-3247.	1.5	22
188	A novel two-beam accelerator (twobetron). AIP Conference Proceedings, 1995, , .	0.3	0
189	Characterization of a laser-ablation-assisted-plasma-discharge-metallic ion source. Plasma Sources Science and Technology, 1995, 4, 511-515.	1.3	5
190	Detection of AlO molecules produced by KrF laser ablated Al atoms in oxygen gas and plasma environments. Journal of Applied Physics, 1995, 78, 3408-3410.	1.1	17
191	Laser diagnostic experiments on KrF laser ablation plasma plume dynamics relevant to manufacturing applications*. Physics of Plasmas, 1994, 1, 1619-1625.	0.7	38
192	Resonant holographic interferometry measurements of laser ablation plumes in vacuum, gas, and plasma environments. Journal of Applied Physics, 1994, 76, 5457-5472.	1.1	34
193	Laser-assisted plasma discharges of aluminum in a transverse magnetic field. Applied Physics Letters, 1994, 65, 531-533.	1.5	29
194	Proposal for a novel two-beam accelerator. Physical Review Letters, 1994, 72, 3025-3028.	2.9	6
195	Beam breakup growth and reduction experiments in long-pulse electron beam transport. Journal of Applied Physics, 1994, 75, 1258-1266.	1.1	1
196	Resonant holographic interferometry of laser ablation plumes. Applied Physics Letters, 1993, 63, 888-890.	1.5	32
197	Copper vapor laser drilling of copper, iron, and titanium foils in atmospheric pressure air and argon. Review of Scientific Instruments, 1993, 64, 3308-3313.	0.6	23
198	The theory and simulation of relativistic electron beam transport in the ion-focused regime. Physics of Fluids B, 1992, 4, 1332-1348.	1.7	41

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199	The beam breakup instability in quadrupole and solenoidal electron-beam transport systems. Journal of Applied Physics, 1992, 71, 3091-3102.	1.1	9
200	Schlieren and dye laser resonance absorption photographic investigations of KrF excimer laser-ablated atoms and molecules from polyimide, polyethyleneterephthalate, and aluminum. Journal of Applied Physics, 1992, 72, 1696-1706.	1.1	52
201	Microwave growth from the beam breakup instability in long-pulse electron beam experiments. Applied Physics Letters, 1992, 61, 642-644.	1.5	5
202	Measurement of long-pulse relativistic electron beam perpendicular-to-parallel velocity ratio by Cerenkov emission and radiation darkening on a glass plate. Review of Scientific Instruments, 1992, 63, 1671-1675.	0.6	6
203	Experimental reduction of beam-breakup instability growth by external cavity coupling in long-pulse electron-beam transport. Physical Review Letters, 1992, 69, 2372-2375.	2.9	8
204	Mode competition in Bragg resonator cyclotron resonance maser experiments driven by a microsecond, intense electron beam accelerator. International Journal of Electronics, 1992, 72, 1045-1066.	0.9	4
205	Copper vapor laser machining of polyimide and polymethylmethacrylate in atmospheric pressure air. Journal of Applied Physics, 1992, 72, 3080-3083.	1.1	6
206	Gyrotron-backward-wave-oscillator experiments utilizing a high current, high voltage, microsecond electron accelerator. Journal of Applied Physics, 1992, 72, 1221-1224.	1.1	38
207	Dynamics of excimer laser-ablated aluminum neutral atom plume measured by dye laser resonance absorption photography. Applied Physics Letters, 1991, 58, 1597-1599.	1.5	87
208	Effect of x-coupling on the beam breakup instability. Applied Physics Letters, 1991, 58, 699-701.	1.5	3
209	Photoacoustic and photothermal beam deflection as a probe of laser ablation of materials. Journal of Applied Physics, 1991, 69, 1330-1336.	1.1	58
210	Laser-beam deflection measurements and modeling of pulsed laser ablation rate and near-surface plume densities in vacuum. Journal of Applied Physics, 1991, 70, 587-593.	1.1	44
211	Deflection of carbon dioxide laser and helium-neon laser beams in a long-pulse relativistic electron beam diode. Review of Scientific Instruments, 1991, 62, 1776-1782.	0.6	2
212	Schlieren measurements of the hydrodynamics of excimer laser ablation of polymers in atmospheric pressure gas. Journal of Applied Physics, 1990, 68, 965-968.	1.1	55
213	Laser beam deflection as a probe of laser ablation of materials. Applied Physics Letters, 1989, 55, 2435-2437.	1.5	81
214	Electron-beam-induced acoustic-wave enhancement of gaseous combustion. Journal of Applied Physics, 1989, 65, 782-791.	1.1	2
215	Transport and stability of long-pulse relativistic electron beams in UV laser-induced ion channels. Physics of Fluids B, 1989, 1, 430-434.	1.7	22
216	The influence of damping on the ion hose instability. Physics of Fluids, 1988, 31, 2006.	1.4	6

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218	Radial oscillations and the ion hose instability of an electron beam propagating in a periodic ion channel. Physics of Fluids, 1988, 31, 634.	1.4	21
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