

# Ronald Gilgenbach

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

166  
papers

3,317  
citations

31  
h-index

49  
g-index

247  
ext. papers

3,836  
ext. citations

2.5  
avg, IF

4.71  
L-index

#	Paper	IF	Citations
166	Experiments on a 10 kA, 240 kV Magnetically Insulated Line Oscillator (MILO) <b>2021</b> ,		1
165	Explicit Brillouin Flow Solutions in Magnetrons, Magnetically Insulated Line Oscillators, and Radial Magnetically Insulated Transmission Lines. <i>IEEE Transactions on Plasma Science</i> , <b>2021</b> , 1-20	1.3	7
164	Sodium tracer measurements of an expanded dense aluminum plasma from e-beam isochoric heating. <i>Physics of Plasmas</i> , <b>2021</b> , 28, 033301	2.1	1
163	Load dynamics of double planar foil liners and double planar wire arrays on the UM MAIZE LTD generator. <i>Physics of Plasmas</i> , <b>2021</b> , 28, 082702	2.1	1
162	Theory, simulation, and experiments on a magnetically insulated line oscillator (MILO) at 10 kA, 240 kV near Hull cutoff condition. <i>Physics of Plasmas</i> , <b>2021</b> , 28, 123102	2.1	2
161	Multipactor experiments on an S-band coaxial test cell.. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 124706.7	6.7	1
160	. <i>IEEE Transactions on Plasma Science</i> , <b>2020</b> , 48, 1894-1901	1.3	6
159	Brazed carbon fiber fabric field emission cathode. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 064702	1.7	4
158	CST Particle Studio Simulations of Coaxial Multipactor and Comparison With Experiments. <i>IEEE Transactions on Plasma Science</i> , <b>2020</b> , 48, 1942-1949	1.3	8
157	High-Power Amplification Experiments on a Recirculating Planar Crossed-Field Amplifier. <i>IEEE Transactions on Plasma Science</i> , <b>2020</b> , 48, 1917-1922	1.3	1
156	Frequency and Power Measurements on the Harmonic Recirculating Planar Magnetron. <i>IEEE Transactions on Plasma Science</i> , <b>2020</b> , 48, 1868-1878	1.3	0
155	Optimization of switch diagnostics on the MAIZE linear transformer driver. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 124707	1.7	3
154	The effects of multipactor on the quality of a complex signal propagating in a transmission line. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 112114	2.1	12
153	Evolution of sausage and helical modes in magnetized thin-foil cylindrical liners driven by a Z-pinch. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 056307	2.1	19
152	. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 710-715	2.9	4
151	Pulse Shortening in Recirculating Planar Magnetrons. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 2354-2360	2.9	4
150	The electro-thermal stability of tantalum relative to aluminum and titanium in cylindrical liner ablation experiments at 550 kA. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 032701	2.1	12

149	High-Power Recirculating Planar Crossed-Field Amplifier Design and Development. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 2361-2365	2.9	5
148	. <i>IEEE Transactions on Plasma Science</i> , <b>2018</b> , 46, 3928-3967	1.3	38
147	Zeeman spectroscopy as a method for determining the magnetic field distribution in self-magnetic-pinch diodes (invited). <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 10D123	1.7	2
146	The Electrothermal Instability on Pulsed Power Ablations of Thin Foils. <i>IEEE Transactions on Plasma Science</i> , <b>2018</b> , 46, 3753-3765	1.3	11
145	Studies of Implosion and Radiative Properties of Tungsten Planar Wire Arrays on Michigan Linear Transformer Driver Pulsed-Power Generator. <i>IEEE Transactions on Plasma Science</i> , <b>2018</b> , 46, 3778-3788	1.3	3
144	Diagnostic and Power Feed Upgrades to the MAIZE Facility. <i>IEEE Transactions on Plasma Science</i> , <b>2018</b> , 46, 3973-3981	1.3	9
143	Harmonic Frequency Locking in the Multifrequency Recirculating Planar Magnetron. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 2347-2353	2.9	5
142	On the evaluation of Pierce parameters C and Q in a traveling wave tube. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 033114	2.1	11
141	Stability of Brillouin flow in the presence of slow-wave structure. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 092101	2.1	8
140	Additively Manufactured High Power Microwave Anodes. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 1258-1264	1.3	5
139	Multi-frequency recirculating planar magnetrons. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 074101	3.4	8
138	Discrete helical modes in imploding and exploding cylindrical, magnetized liners. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 124502	2.1	21
137	Seeded and unseeded helical modes in magnetized, non-imploding cylindrical liner-plasmas. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 101205	2.1	22
136	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. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 101206	2.1	9
135	Double and Single Planar Wire Arrays on University-Scale Low-Impedance LTD Generator. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 432-440	1.3	7
134	Microwave Power and Phase Measurements on a Recirculating Planar Magnetron. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 1675-1682	1.3	9
133	Coupling of sausage, kink, and magneto-Rayleigh-Taylor instabilities in a cylindrical liner. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 032706	2.1	33
132	Analysis of current crowding in thin film contacts from exact field solution. <i>Journal Physics D: Applied Physics</i> , <b>2015</b> , 48, 475501	3	25

131	Stability of Brillouin flow in planar, conventional, and inverted magnetrons. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 082104	2.1	8
130	Technique for fabrication of ultrathin foils in cylindrical geometry for liner-plasma implosion experiments with sub-megaampere currents. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 113506	1.7	11
129	Absolute Instability near the Band Edge of Traveling-Wave Amplifiers. <i>Physical Review Letters</i> , <b>2015</b> , 115, 124801	7.4	22
128	Harmonic Content in the Beam Current in a Traveling-Wave Tube. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 4285-4292	2.9	12
127	Temporal evolution of surface ripples on a finite plasma slab subject to the magneto-Rayleigh-Taylor instability. <i>Physics of Plasmas</i> , <b>2014</b> , 21, 122708	2.1	17
126	Passive mode control in the recirculating planar magnetron. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 033108	2.1	10
125	Recirculating-Planar-Magnetron Simulations and Experiment. <i>IEEE Transactions on Plasma Science</i> , <b>2013</b> , 41, 639-645	1.3	18
124	Development of a compact LTD pulse generator for X-ray backlighting of planar foil ablation experiments <b>2013</b> ,		1
123	. <i>IEEE Transactions on Plasma Science</i> , <b>2012</b> , 40, 3246-3264	1.3	31
122	Magneto-Rayleigh-Taylor experiments on a MegaAmpere linear transformer driver. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 032701	2.1	20
121	Effects of magnetic shear on magneto-Rayleigh-Taylor instability. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 022703	2.1	26
120	An unnoticed property of the cylindrical relativistic Brillouin flow. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 043103	2.1	7
119	Thin film contact resistance with dissimilar materials. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 124910	2.5	21
118	Recirculating Planar Magnetrons for High-Power High-Frequency Radiation Generation. <i>IEEE Transactions on Plasma Science</i> , <b>2011</b> , 39, 980-987	1.3	26
117	Anisotropy and feedthrough in magneto-Rayleigh-Taylor instability. <i>Physical Review E</i> , <b>2011</b> , 83, 066405	2.4	42
116	Contact Resistance with Dissimilar Materials: Bulk Contacts and Thin Film Contacts <b>2011</b> ,		3
115	Recirculating planar magnetrons: Simulations and experiment <b>2011</b> ,		2
114	Multipactor susceptibility on a dielectric with a bias dc electric field and a background gas. <i>Physics of Plasmas</i> , <b>2011</b> , 18, 053508	2.1	49

113	Peer-to-peer locking of magnetrons: Analysis and experiment <b>2010</b> ,		1
112	. <i>IEEE Transactions on Plasma Science</i> , <b>2010</b> , 38, 704-713	1.3	84
111	Temporal and spatial locking of nonlinear systems. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 171502	3.4	5
110	Negative, positive, and infinite mass properties of a rotating electron beam. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 111501	3.4	11
109	High power nonlinear transmission lines with nonlinear inductance <b>2010</b> ,		5
108	A re-examination of the Buneman-Bartree condition in a cylindrical smooth-bore relativistic magnetron. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 033102	2.1	28
107	21.1: Recirculating-planar-magnetrons for high power, high-frequency radiation generation <b>2010</b> ,		1
106	Three-Dimensional Simulations of Magnetic Priming of a Relativistic Magnetron. <i>IEEE Transactions on Plasma Science</i> , <b>2010</b> , 38, 1292-1301	1.3	9
105	Minimization of thin film contact resistance. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 204103	3.4	12
104	Azimuthally correlated ablation between z-pinch wire cores. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 102702	2.1	8
103	Lumped circuit elements, statistical analysis, and radio frequency properties of electrical contact. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 084904	2.5	2
102	Development and tests of fast 1-MA linear transformer driver stages. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2009</b> , 12,		115
101	Experimental validation of a higher dimensional theory of electrical contact resistance. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 072103	3.4	15
100	Analysis of radio-frequency absorption and electric and magnetic field enhancements due to surface roughness. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 114908	2.5	24
99	Conductive versus capacitive coupling for cell electroporation with nanosecond pulses. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 074701	2.5	9
98	Experiments on peer-to-peer locking of magnetrons. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 191503	3.4	26
97	MAIZE: a 1 MA LTD-Driven Z-Pinch at The University of Michigan <b>2009</b> ,		30
96	Effect of Random Circuit Fabrication Errors on Small-Signal Gain and Phase in Traveling-Wave Tubes. <i>IEEE Transactions on Electron Devices</i> , <b>2008</b> , 55, 916-924	2.9	17

95	Magnetic Priming at the Cathode of a Relativistic Magnetron. <i>IEEE Transactions on Plasma Science</i> , <b>2008</b> , 36, 710-717	1.3	23
94	Analysis of peer-to-peer locking of magnetrons. <i>Physics of Plasmas</i> , <b>2008</b> , 15, 103104	2.1	12
93	Effects of frequency chirp on magnetron injection locking. <i>Physics of Plasmas</i> , <b>2008</b> , 15, 073110	2.1	13
92	Wire-Tension Effects on Plasma Dynamics in a Two-Wire $ZZ$ -Pinch. <i>IEEE Transactions on Plasma Science</i> , <b>2008</b> , 36, 1284-1285	1.3	6
91	Performance and analysis of an electron cyclotron resonance plasma cathode. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2007</b> , 25, 781-790	2.9	4
90	Electric field and electron orbits near a triple point. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 033301	2.5	60
89	Implications of a simple mathematical model to cancer cell population dynamics. <i>Cell Proliferation</i> , <b>2006</b> , 39, 15-28	7.9	18
88	Modeling and experimental studies of magnetron injection locking. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 114903	2.5	33
87	The Ohmic heating of particulates in a lossless medium. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 114915	2.5	9
86	Incorporating spatial dependence into a multicellular tumor spheroid growth model. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 124701	2.5	12
85	Azimuthal clumping instabilities in a Z-pinch wire array. <i>Physics of Plasmas</i> , <b>2005</b> , 12, 052701	2.1	3
84	Magnetron priming by multiple cathodes. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 081501	3.4	27
83	Simulation of rapid startup in microwave magnetrons with azimuthally varying axial magnetic fields. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 1016-1018	3.4	29
82	Heating of a particulate by radio-frequency electric and magnetic fields. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 3319-3321	3.4	13
81	Projection ablation lithography cathode for high-current, relativistic magnetron. <i>Review of Scientific Instruments</i> , <b>2004</b> , 75, 2976-2980	1.7	35
80	Cathode priming of a relativistic magnetron. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 6332-6334	3.4	45
79	Three-dimensional particle-in-cell simulations of rapid start-up in strapped oven magnetrons due to variation in the insulating magnetic field. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 5425-5427	3.4	25
78	Limiting current in a relativistic diode under the condition of magnetic insulation. <i>Physics of Plasmas</i> , <b>2003</b> , 10, 4489-4493	2.1	13

77	Low-noise microwave magnetrons by azimuthally varying axial magnetic field. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 1938-1940	3.4	45
76	Caterpillar structures in single-wire Z-pinch experiments. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 4915-4917	3.4	6
75	Microwave absorption on a thin film. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1353-1355	3.4	84
74	Diagnostic characterization of ablation plasma ion implantation. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 8876-8883	2.5	12
73	Extraction of ions from the matrix sheath in ablation-plasma ion implantation. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 706-708	3.4	11
72	Multipactor experiment on a dielectric surface. <i>Review of Scientific Instruments</i> , <b>2001</b> , 72, 3095-3099	1.7	18
71	Ablation plasma ion implantation experiments: Measurement of Fe implantation into Si. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 3785-3787	3.4	10
70	Application of time-frequency analysis to high-power microwave devices <b>2000</b> , 4116, 1		2
69	Radio-frequency plasma cleaning for mitigation of high-power microwave-pulse shortening in a coaxial gyrotron. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 3725-3727	3.4	13
68	Effects of an external magnetic field, and of oblique radio-frequency electric fields on multipactor discharge on a dielectric. <i>Physics of Plasmas</i> , <b>2000</b> , 7, 750-757	2.1	79
67	Radio frequency plasma processing effects on the emission characteristics of a MeV electron beam cathode. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 31-33	3.4	9
66	Resonant absorption of a short-pulse laser in a doped dielectric. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 2912-2914	3.4	1
65	Electron beam ablation of materials. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 7129-7138	2.5	31
64	Multipactor discharge on metals and dielectrics: Historical review and recent theories. <i>Physics of Plasmas</i> , <b>1998</b> , 5, 2120-2126	2.1	236
63	Surface instability of multipulse laser ablation on a metallic target. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 4466-4471	2.5	43
62	Time-frequency analysis of modulation of high-power microwaves by electron-beam voltage fluctuations. <i>Physical Review E</i> , <b>1998</b> , 58, 6880-6883	2.4	21
61	Dynamics of electron beam ablation of silicon dioxide measured by dye laser resonance absorption photography. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 2576-2578	3.4	6
60	Analysis of laser absorption on a rough metal surface. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 696-698	3.4	74

59	Two-Dimensional Child-Langmuir Law. <i>Physical Review Letters</i> , <b>1996</b> , 77, 4668-4670	7.4	138
58	Ionization dynamics of iron plumes generated by laser ablation versus a laser-ablation-assisted-plasma discharge ion source. <i>Journal of Applied Physics</i> , <b>1996</b> , 79, 2287-2295	2.5	9
57	Effects of laser-ablation target damage on particulate production investigated by laser scattering with deposited thin film and target analysis. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 3245-3247	3.4	18
56	Characterization of a laser-ablation-assisted-plasma-discharge-metallic ion source. <i>Plasma Sources Science and Technology</i> , <b>1995</b> , 4, 511-515	3.5	5
55	Detection of AlO molecules produced by KrF laser-ablated Al atoms in oxygen gas and plasma environments. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 3408-3410	2.5	17
54	Laser diagnostic experiments on KrF laser ablation plasma-plume dynamics relevant to manufacturing applications*. <i>Physics of Plasmas</i> , <b>1994</b> , 1, 1619-1625	2.1	37
53	Resonant holographic interferometry measurements of laser ablation plumes in vacuum, gas, and plasma environments. <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 5457-5472	2.5	32
52	Laser-ablation-assisted-plasma discharges of aluminum in a transverse-magnetic field. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 531-533	3.4	22
51	Proposal for a novel two-beam accelerator. <i>Physical Review Letters</i> , <b>1994</b> , 72, 3025-3028	7.4	3
50	Beam breakup growth and reduction experiments in long-pulse electron beam transport. <i>Journal of Applied Physics</i> , <b>1994</b> , 75, 1258-1266	2.5	1
49	Resonant holographic interferometry of laser-ablation plumes. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 888-890	3.4	26
48	Copper vapor laser drilling of copper, iron, and titanium foils in atmospheric pressure air and argon. <i>Review of Scientific Instruments</i> , <b>1993</b> , 64, 3308-3313	1.7	19
47	The theory and simulation of relativistic electron beam transport in the ion-focused regime. <i>Physics of Fluids B</i> , <b>1992</b> , 4, 1332-1348		38
46	The beam breakup instability in quadrupole and solenoidal electron-beam transport systems. <i>Journal of Applied Physics</i> , <b>1992</b> , 71, 3091-3102	2.5	7
45	Schlieren and dye laser resonance absorption photographic investigations of KrF excimer laser-ablated atoms and molecules from polyimide, polyethyleneterephthalate, and aluminum. <i>Journal of Applied Physics</i> , <b>1992</b> , 72, 1696-1706	2.5	45
44	Microwave growth from the beam breakup instability in long-pulse electron beam experiments. <i>Applied Physics Letters</i> , <b>1992</b> , 61, 642-644	3.4	3
43	Measurement of long-pulse relativistic electron beam perpendicular- to-parallel velocity ratio by Cerenkov emission and radiation darkening on a glass plate. <i>Review of Scientific Instruments</i> , <b>1992</b> , 63, 1671-1675	1.7	5
42	Experimental reduction of beam-breakup instability growth by external cavity coupling in long-pulse electron-beam transport. <i>Physical Review Letters</i> , <b>1992</b> , 69, 2372-2375	7.4	4

41	Mode competition in Bragg resonator cyclotron resonance maser experiments driven by a microsecond, intense electron beam accelerator. <i>International Journal of Electronics</i> , <b>1992</b> , 72, 1045-1066 <sup>1,2</sup>	2
40	Copper vapor laser machining of polyimide and polymethylmethacrylate in atmospheric pressure air. <i>Journal of Applied Physics</i> , <b>1992</b> , 72, 3080-3083	2.5 6
39	Gyrotron-backward-wave-oscillator experiments utilizing a high current, high voltage, microsecond electron accelerator. <i>Journal of Applied Physics</i> , <b>1992</b> , 72, 1221-1224	2.5 31
38	Effect of x-y coupling on the beam breakup instability. <i>Applied Physics Letters</i> , <b>1991</b> , 58, 699-701	3.4 2
37	Photoacoustic and photothermal beam deflection as a probe of laser ablation of materials. <i>Journal of Applied Physics</i> , <b>1991</b> , 69, 1330-1336	2.5 55
36	Laser-beam deflection measurements and modeling of pulsed laser ablation rate and near-surface plume densities in vacuum. <i>Journal of Applied Physics</i> , <b>1991</b> , 70, 587-593	2.5 36
35	Deflection of carbon dioxide laser and helium-neon laser beams in a long-pulse relativistic electron beam diode. <i>Review of Scientific Instruments</i> , <b>1991</b> , 62, 1776-1782	1.7 2
34	Dynamics of excimer laser-ablated aluminum neutral atom plume measured by dye laser resonance absorption photography. <i>Applied Physics Letters</i> , <b>1991</b> , 58, 1597-1599	3.4 76
33	Schlieren measurements of the hydrodynamics of excimer laser ablation of polymers in atmospheric pressure gas. <i>Journal of Applied Physics</i> , <b>1990</b> , 68, 965-968	2.5 49
32	Laser beam deflection as a probe of laser ablation of materials. <i>Applied Physics Letters</i> , <b>1989</b> , 55, 2435-2437	3.4 74
31	Electron-beam-induced acoustic-wave enhancement of gaseous combustion. <i>Journal of Applied Physics</i> , <b>1989</b> , 65, 782-791	2.5 2
30	Transport and stability of long-pulse relativistic electron beams in UV laser-induced ion channels. <i>Physics of Fluids B</i> , <b>1989</b> , 1, 430-434	20
29	The influence of damping on the ion hose instability. <i>Physics of Fluids</i> , <b>1988</b> , 31, 2006	6
28	Low-voltage models of particle accelerator circuits. <i>American Journal of Physics</i> , <b>1988</b> , 56, 822-824	0.7
27	Radial oscillations and the ion hose instability of an electron beam propagating in a periodic ion channel. <i>Physics of Fluids</i> , <b>1988</b> , 31, 634	18
26	Undulation of a magnetized electron beam by a periodic ion channel. <i>Physics of Fluids</i> , <b>1988</b> , 31, 3127	1
25	Propagation of microsecond electron beams in gases and excimer laser-ionized channels in the ion-focused regime. <i>Laser and Particle Beams</i> , <b>1988</b> , 6, 687-697	0.9 8
24	Amorphous alloys formed by microsecond current pulses. <i>Applied Physics Letters</i> , <b>1987</b> , 50, 495-497	3.4 8

23	Fast, sensitive laser deflection system suitable for transient plasma analysis. <i>Review of Scientific Instruments</i> , <b>1987</b> , 58, 1597-1600	1.7	53
22	Effects of electron beam injection on ethylene-air combustion. <i>Journal of Applied Physics</i> , <b>1987</b> , 62, 2553-2557	3.5	7
21	Temporally Resolved Spectroscopy of Laser-Induced Carbon Ablation Plasmas. <i>IEEE Transactions on Plasma Science</i> , <b>1987</b> , 15, 73-77	1.3	8
20	Spectroscopic Study of Anode Plasmas in a Microsecond Electron Beam Diode. <i>IEEE Transactions on Plasma Science</i> , <b>1987</b> , 15, 375-383	1.3	10
19	Transport and modulation of relativistic electron beams by periodic ion channels. <i>Physics of Fluids</i> , <b>1987</b> , 30, 3165		8
18	Ultraviolet-induced flashover of a plastic insulator using a pulsed excimer laser. <i>Plasma Chemistry and Plasma Processing</i> , <b>1987</b> , 7, 89-99	3.6	9
17	Soft X-ray emission from a CO <sub>2</sub> laser-heated Z-pinch plasma. <i>Plasma Chemistry and Plasma Processing</i> , <b>1987</b> , 7, 365-376	3.6	3
16	Extended frequency compensation of a diamagnetic loop. <i>Plasma Physics and Controlled Fusion</i> , <b>1986</b> , 28, 1449-1459	2	9
15	Effects of helium upon electron beam excitation of N <sub>2</sub> at 391.4 and 427.8 nm. <i>Applied Physics Letters</i> , <b>1986</b> , 49, 696-698	3.4	3
14	Spectroscopic measurements of He <sub>2</sub> in the afterglow of a dense Z-pinch plasma. <i>Journal of Applied Physics</i> , <b>1986</b> , 59, 2251-2253	2.5	2
13	X-Ray Measurements during Whistler-Mode Electron Cyclotron Resonance Plasma Startup and Heating in an Axisymmetric Magnetic Mirror. <i>IEEE Transactions on Plasma Science</i> , <b>1986</b> , 14, 592-602	1.3	1
12	Amorphous Alloys from Microsecond Current Pulses. <i>Materials Research Society Symposia Proceedings</i> , <b>1985</b> , 57, 269		
11	Experiments on whistler mode electron-cyclotron resonance plasma startup and heating in an axisymmetric magnetic mirror. <i>Physics of Fluids</i> , <b>1985</b> , 28, 3116		32
10	Mirror electrode for laser initiated discharge channels. <i>Review of Scientific Instruments</i> , <b>1984</b> , 55, 503-507	1.7	2
9	Microwave-plasma interaction experiment. <i>American Journal of Physics</i> , <b>1984</b> , 52, 710-713	0.7	1
8	Intermediate and high-mass ion beams from a 10-cm Duopigatron. <i>Plasma Chemistry and Plasma Processing</i> , <b>1984</b> , 4, 75-88	3.6	
7	Energy deposition in metals by laser-guided discharges. <i>Plasma Chemistry and Plasma Processing</i> , <b>1983</b> , 3, 367-381	3.6	2
6	Localized metallic melting and hole boring by laser guided discharges. <i>Review of Scientific Instruments</i> , <b>1983</b> , 54, 109-113	1.7	12

- 5 Collinear investigation of laser initiated reduced density channels. *Applied Physics Letters*, **1983**, 43, 1010-1012 8
- 4 Heating at the Electron Cyclotron Frequency in the ISX-B Tokamak. *Physical Review Letters*, **1980**, 44, 647-650 7.4 124
- 3 Cyclotron harmonic damping in stimulated Raman scattering from an intense relativistic electron beam. *Physics of Fluids*, **1979**, 22, 1219 9
- 2 Spectral properties of stimulated Raman radiation from an intense relativistic electron beam. *Physics of Fluids*, **1979**, 22, 971 47
- 1 Thermal sensitive paper as a diagnostic for intense relativistic electron beam dynamics. *Review of Scientific Instruments*, **1978**, 49, 1098 1.7 4