

Gregory Nusinovich

List of Publications by Year in descending order

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238
papers

4,430
citations

196777

29
h-index

169272

56
g-index

239
all docs

239
docs citations

239
times ranked

1296
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of high-power microwave source research. Review of Scientific Instruments, 1997, 68, 3945-3974.	0.6	337
2	Relativistic gyrotrons and cyclotron autoresonance masers. International Journal of Electronics, 1981, 51, 541-567.	0.9	286
3	Modern Microwave and Millimeter-Wave Power Electronics. , 2005, , .		278
4	The Gyrotron at 50: Historical Overview. Journal of Infrared, Millimeter, and Terahertz Waves, 2014, 35, 325-381.	1.2	185
5	Theory of non-stationary processes in gyrotrons with low Q resonators. International Journal of Electronics, 1986, 61, 881-894.	0.9	167
6	Invited paper. Powerful millimetre-wave gyrotrons. International Journal of Electronics, 1981, 51, 277-302.	0.9	144
7	A 670 GHz gyrotron with record power and efficiency. Applied Physics Letters, 2012, 101, .	1.5	144
8	Mode interaction in gyrotrons. International Journal of Electronics, 1981, 51, 457-474.	0.9	131
9	Coaxial Gyrotrons: Past, Present, and Future (Review). IEEE Transactions on Plasma Science, 2004, 32, 934-946.	0.6	89
10	Submillimeter-wave gyrotrons: Theory and experiment. Journal of Infrared, Millimeter and Terahertz Waves, 1983, 4, 629-637.	0.6	87
11	Concerning the theory of multimode oscillation in a gyrotron. Radiophysics and Quantum Electronics, 1974, 17, 1305-1311.	0.1	82
12	Detecting excess ionizing radiation by electromagnetic breakdown of air. Journal of Applied Physics, 2010, 108, .	1.1	81
13	Linear theory of a gyrotron with weakly tapered external magnetic field. International Journal of Electronics, 1988, 64, 127-135.	0.9	63
14	Nonstationary Phenomena in Tapered Gyro-Backward-Wave Oscillators. Physical Review Letters, 2001, 87, 218301.	2.9	62
15	Startup Scenarios in High-Power Gyrotrons. IEEE Transactions on Plasma Science, 2004, 32, 841-852.	0.6	61
16	Effect of window reflection on gyrotron operation. Physics of Fluids B, 1992, 4, 4131-4139.	1.7	60
17	Wave coupling in sheet- and multiple-beam traveling-wave tubes. Physics of Plasmas, 2009, 16, .	0.7	49
18	Mode interaction in backward-wave oscillators with strong end reflections. Physics of Plasmas, 2000, 7, 1294-1301.	0.7	48

#	ARTICLE	IF	CITATIONS
19	Development of THz-range Gyrotrons for Detection of Concealed Radioactive Materials. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 380-402.	1.2	47
20	Advances in plasma-filled microwave sources. Physics of Plasmas, 1999, 6, 2225-2232.	0.7	46
21	Two-harmonic prebunching of electrons in multicavity gyrodevices. Physics of Plasmas, 1995, 2, 568-577.	0.7	43
22	On the sensitivity of terahertz gyrotron based systems for remote detection of concealed radioactive materials. Journal of Applied Physics, 2012, 111, .	1.1	39
23	Excitation of "monotron" oscillations in klystrons. Physics of Plasmas, 2004, 11, 4893-4903.	0.7	36
24	Experimental Study of the Pulsed Terahertz Gyrotron with Record-Breaking Power and Efficiency Parameters. Radiophysics and Quantum Electronics, 2014, 56, 497-507.	0.1	36
25	Gain and bandwidth in stagger-tuned gyroklystrons. Physics of Plasmas, 1997, 4, 469-478.	0.7	35
26	Low-voltage gyrotrons. Physics of Plasmas, 2013, 20, 033103.	0.7	35
27	Start currents in an overmoded gyrotron. Physics of Plasmas, 2003, 10, 4513-4520.	0.7	33
28	Theory of the relativistic gyrotwistron. Physics of Fluids B, 1992, 4, 1058-1065.	1.7	32
29	Effect of the azimuthal inhomogeneity of electron emission on gyrotron operation. Physics of Plasmas, 2001, 8, 3473-3479.	0.7	32
30	Design of a Subterahertz, Third-Harmonic, Continuous-Wave Gyrotron. IEEE Transactions on Plasma Science, 2008, 36, 591-596.	0.6	31
31	Numerical study of efficiency for a 670 GHz gyrotron. Physics of Plasmas, 2011, 18, .	0.7	31
32	An analytical theory for comparing the efficiency of gyrotrons with various electrodynamic systems. International Journal of Electronics, 1984, 57, 827-834.	0.9	30
33	High power operation of anX-band gyrotwistron. Physical Review Letters, 1994, 72, 3730-3733.	2.9	30
34	Effect of the thickness of electron beams on the gyrotron efficiency. Physics of Plasmas, 2010, 17, 083105.	0.7	30
35	Non-linear theory of a large-orbit gyrotron. International Journal of Electronics, 1992, 72, 959-967.	0.9	29
36	The Pasotron: Progress in the Theory and Experiments. IEEE Transactions on Electron Devices, 2005, 52, 845-857.	1.6	29

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37	Heating of microprotrusions in accelerating structures. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013, 16, .	1.8	29
38	A one-dimensional study of the evolution of the microwave breakdown in air. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	29
39	Active remote detection of radioactivity based on electromagnetic signatures. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	28
40	On the theory of frequency-quadrupling gyrokystrons. <i>Physics of Plasmas</i> , 2007, 14, 053113.	0.7	27
41	A study of parametric instability in a harmonic gyrotron: Designs of third harmonic gyrotrons at 94 GHz and 210 GHz. <i>Physics of Plasmas</i> , 1995, 2, 2839-2846.	0.7	25
42	Start-Up Scenario in Gyrotrons with a Nonstationary Microwave-Field Structure. <i>Physical Review Letters</i> , 2006, 96, 125101.	2.9	25
43	Range, resolution and power of THz systems for remote detection of concealed radioactive materials. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	25
44	Some perspectives on the use of powerful gyrotrons for the electron-cyclotron plasma heating in large tokamaks. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1980, 1, 351-372.	0.6	24
45	Stability of single-mode self-excited oscillations in a gyromonotron. <i>Radiophysics and Quantum Electronics</i> , 1974, 17, 1418-1424.	0.1	23
46	Effect of technical noise on radiation linewidth in free-running gyrotron oscillators. <i>Physics of Plasmas</i> , 1997, 4, 1413-1423.	0.7	23
47	Mode Switching in a Gyrotron with Azimuthally Corrugated Resonator. <i>Physical Review Letters</i> , 2007, 98, 205101.	2.9	23
48	Analysis of aftercavity interaction in gyrotrons. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	23
49	Excitation of Backward Waves in Beam Tunnels of High-Power Gyrotrons. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 1193-1199.	0.6	23
50	Nonlinear theory of stable, efficient operation of a gyrotron at cyclotron harmonics. <i>Physics of Fluids B</i> , 1993, 5, 4473-4485.	1.7	22
51	Theory of relativistic gyrotraveling wave devices. <i>Physics of Plasmas</i> , 1995, 2, 3494-3510.	0.7	22
52	Effect of electron beam misalignments on the gyrotron efficiency. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	22
53	On the nonlinear theory of a relativistic gyrotron. <i>Radiophysics and Quantum Electronics</i> , 1979, 22, 522-528.	0.1	21
54	Wave interaction in gyrotrons with off-axis electron beams. <i>Physics of Plasmas</i> , 1995, 2, 4621-4630.	0.7	21

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55	Cherenkov radiation of electromagnetic waves by electron beams in the absence of an external magnetic field. <i>Physical Review E</i> , 2000, 62, 2657-2666.	0.8	21
56	Self-consistent nonstationary two-dimensional model of multipactor in dielectric-loaded accelerator structures. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	21
57	Excitation of parasitic modes in gyrotrons with fast voltage rise. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	20
58	Breakdown simulations in a focused microwave beam within the simplified model. <i>Physics of Plasmas</i> , 2016, 23, 073109.	0.7	20
59	Competition of modes resonant with different harmonics of cyclotron frequency in gyromonotrons. <i>Radiophysics and Quantum Electronics</i> , 1977, 20, 313-317.	0.1	19
60	Optimization of multistage harmonic gyrodevices. <i>Physics of Plasmas</i> , 1996, 3, 3133-3144.	0.7	19
61	Space charge effects in plasma-filled traveling-wave tubes. <i>Physics of Plasmas</i> , 1997, 4, 4394-4403.	0.7	19
62	Theory of the inverted gyrotwystron. <i>Physics of Plasmas</i> , 1997, 4, 3394-3402.	0.7	18
63	Excitation of backward waves in forward wave amplifiers. <i>Physical Review E</i> , 1998, 58, 6594-6605.	0.8	18
64	Self-consistent nonstationary processes in phase-mixed electron beams focused by mobile ions. <i>Physical Review E</i> , 2002, 66, 056503.	0.8	18
65	To the theory of high-power gyrotrons with uptapered resonators. <i>Physics of Plasmas</i> , 2010, 17, 053104.	0.7	18
66	Theory of relativistic cyclotron masers. <i>Physical Review E</i> , 1995, 52, 998-1012.	0.8	17
67	Stability of frequency-multiplying harmonic gyroklystrons. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	17
68	Slow processes in startup scenarios of long-pulse gyrotrons. <i>Physics of Plasmas</i> , 2006, 13, 083106.	0.7	16
69	Self-Excitation of a Tapered Gyrotron Oscillator. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 1200-1207.	0.6	16
70	Propagation of gamma rays and production of free electrons in air. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	16
71	Experimental Study of the Start-Up Scenario of a 1.5-MW, 110-GHz Gyrotron. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 862-871.	0.6	16
72	Phase locking in backward-wave oscillators with strong end reflections. <i>Physics of Plasmas</i> , 2007, 14, 053109.	0.7	15

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73	Field Formation in the Interaction Space of Gyrotrons. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2016, 37, 111-122.	1.2	15
74	Realization of high efficiency in a plasma-assisted microwave source with two-dimensional electron motion. <i>Physics of Plasmas</i> , 2002, 9, 4114-4117.	0.7	14
75	Efficiency of helix pasotron backward-wave oscillator. <i>IEEE Transactions on Plasma Science</i> , 2002, 30, 1126-1133.	0.6	14
76	Development of a high-power pulsed subterahertz gyrotron for remote detection of sources of ionizing radiation. <i>Radiophysics and Quantum Electronics</i> , 2012, 54, 600-608.	0.1	14
77	Nonlinear theory of the gyro-twt: comparison of analytical method and numerical code data for the nrl gyro-twt. <i>IEEE Transactions on Plasma Science</i> , 2002, 30, 915-921.	0.6	13
78	Design of a Magnetron Injection Gun for a 670-GHz 300-kW Gyrotron. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 3337-3344.	0.6	13
79	Combined Resonances in Cyclotron Masers With Periodic Slow-Wave Structures. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 804-814.	0.6	13
80	Multimoding in cyclotron-resonance masers. <i>Radiophysics and Quantum Electronics</i> , 1976, 19, 1301-1306.	0.1	12
81	Removal of halocarbons from air with high-power microwaves. <i>Journal of Applied Physics</i> , 1996, 80, 4189-4195.	1.1	12
82	Effect of the radial thickness of electron beams on mode coupling and stability in gyrotrons. <i>Physics of Plasmas</i> , 2003, 10, 3335-3343.	0.7	12
83	Electron beam dynamics in Pasotron microwave sources. <i>Physics of Plasmas</i> , 2003, 10, 4865-4873.	0.7	12
84	To the theory of gyrotrons with confocal resonators. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	12
85	Analysis of the self-modulation instability of gyrotron radiation. <i>Radiophysics and Quantum Electronics</i> , 1985, 28, 926-932.	0.1	11
86	Toward a theory of parasitic radiation in gyrotrons. <i>Radiophysics and Quantum Electronics</i> , 1988, 31, 269-275.	0.1	11
87	Quasilinear theory of mode interaction in gyrotrons with azimuthally inhomogeneous electron emission. <i>Physics of Plasmas</i> , 2001, 8, 1029-1036.	0.7	11
88	Traveling-wave tubes and backward-wave oscillators with weak external magnetic fields. <i>Physical Review E</i> , 2001, 63, 066501.	0.8	11
89	Nonlinear theory of beam-wave interaction in the pasotron with a phase-mixed electron beam. <i>Physics of Plasmas</i> , 2006, 13, 023102.	0.7	11
90	Long-pulse operation of a megawatt-class plasma-assisted slow-wave oscillator. <i>Applied Physics Letters</i> , 2006, 89, 103503.	1.5	11

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91	Possible role of rf melted microparticles on the operation of high-gradient accelerating structures. Physical Review Special Topics: Accelerators and Beams, 2009, 12, .	1.8	11
92	On optimization of sub-THz gyrotron parameters. Physics of Plasmas, 2012, 19, .	0.7	11
93	Stability of gyrotron operation in very high-order modes. Physics of Plasmas, 2012, 19, .	0.7	11
94	Design of a 10 MW, π -Band, Annular Beam Klystron. IEEE Transactions on Electron Devices, 2014, 61, 1836-1841.	1.6	11
95	Self-consistent non-stationary theory of the gyrotron. Physics of Plasmas, 2016, 23, .	0.7	11
96	Efficiency of the gyrotron with single and double confocal resonators. Physics of Plasmas, 2018, 25, .	0.7	11
97	Scaling Law for Ballistic Bunching in Multicavity Harmonic Gyrokystrons. Physical Review Letters, 1997, 78, 1815-1818.	2.9	10
98	Self-excitation of microwave oscillations in plasma-assisted slow-wave oscillators by an electron beam with a movable focus. Physical Review E, 2004, 70, 046501.	0.8	10
99	Reflections in gyrotrons with radial output: Consequences for the ITER coaxial gyrotron. Physics of Plasmas, 2004, 11, 5423-5429.	0.7	10
100	Analytical theory of low-frequency space charge oscillations in gyrotrons. Physics of Plasmas, 2008, 15, 103102.	0.7	10
101	Effect of Electron Emission on Microparticle Heating and Melting in High-Power Microwave Systems. IEEE Transactions on Plasma Science, 2013, 41, 70-76.	0.6	10
102	Effect of ion compensation of the beam space charge on gyrotron operation. Physics of Plasmas, 2015, 22, 043119.	0.7	10
103	Analytical nonlinear theory of the orotron. Physics of Plasmas, 2006, 13, 053107.	0.7	9
104	MAGY Simulations of Mode Interaction in a Coaxial Gyrotron. IEEE Transactions on Plasma Science, 2008, 36, 606-619.	0.6	9
105	Harmonic gyrotrons operating in high-order symmetric modes. Applied Physics Letters, 2015, 106, 013502.	1.5	9
106	Efficiency of gyrotrons with a tapered magnetic field in the regime of soft self-excitation. Physics of Plasmas, 2018, 25, .	0.7	9
107	Parametric instabilities in gyro-devices at cyclotron harmonics. International Journal of Electronics, 1992, 72, 795-805.	0.9	8
108	Azimuthal instability of radiation in gyrotrons with overmoded resonators. Physics of Plasmas, 2005, 12, 053106.	0.7	8

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109	Possibilities for reducing the aftercavity interaction effect in gyrotrons. <i>Physics of Plasmas</i> , 2010, 17, 083106.	0.7	8
110	Linear theory of frequency pulling in gyrotrons. <i>Physics of Plasmas</i> , 2016, 23, 053111.	0.7	8
111	Highly efficient, megawatt-class, radio frequency source for mobile ionospheric heaters. <i>Journal of Electromagnetic Waves and Applications</i> , 2017, 31, 1786-1801.	1.0	8
112	The Progress in the Studies of Mode Interaction in Gyrotrons. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2022, 43, 1-47.	1.2	8
113	Competition of modes having arbitrary frequency separation in a gyromonotron. <i>Radiophysics and Quantum Electronics</i> , 1975, 18, 223-225.	0.1	7
114	Theory of synchronization of multimode electron microwave oscillators. <i>Radiophysics and Quantum Electronics</i> , 1975, 18, 1246-1252.	0.1	7
115	A submillimeter gyrotron with a pulsed magnetic field. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1982, 3, 765-769.	0.6	7
116	Theory of clustered-cavity gyrokystron. <i>Physics of Plasmas</i> , 2002, 9, 4032-4039.	0.7	7
117	Overlapping of Resonances and Stochasticity of Electron Trajectories in Cyclotron Masers. <i>Physical Review Letters</i> , 2004, 93, 055101.	2.9	7
118	Interpretation of the nonlinear mode excitation in the ITER gyrotron. <i>Physics of Plasmas</i> , 2007, 14, .	0.7	7
119	Effect of the transverse nonuniformity of the radiofrequency field on the start current and efficiency of gyrodevices with confocal mirrors. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	7
120	10.5: Development of THz gyrotrons with pulse solenoids for detecting concealed radioactive materials. , 2010, , .		7
121	Saturation Effects in Frequency Pulling of Gyrotrons Operating in High-Order Axial Modes. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 2848-2855.	0.6	7
122	Zones of soft and hard self-excitation in gyrotrons: Generalized approach. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	7
123	Regions of azimuthal instability in gyrotrons. <i>Physics of Plasmas</i> , 2012, 19, 063103.	0.7	6
124	Theoretical Study of the Effect of Electron Beam Misalignment on Operation of the Gyrotron FU IV A. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 1586-1593.	0.6	6
125	Temporal study of a plasma loaded helix, backward wave oscillator. <i>Physics of Plasmas</i> , 2003, 10, 3746-3757.	0.7	5
126	Comparison of Multistage Gyroamplifiers Operating in the Frequency-Multiplication Regime With Gyroamplifiers Operating at a Given Cyclotron Harmonic. <i>IEEE Transactions on Plasma Science</i> , 2004, 32, 957-969.	0.6	5

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127	Electron energy recuperation in gyrodevices. <i>Physics of Plasmas</i> , 2008, 15, 073104.	0.7	5
128	Single-Mode Excitation in High-Power Gyrotrons by Controlling Gun Perveance. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 1160-1167.	0.6	5
129	Excitation of parasitic waves near cutoff in forward-wave amplifiers. <i>Physical Review E</i> , 2010, 82, 046404.	0.8	5
130	Effect of Metallic Dust on Operation of Repetition-Rate High-Power Microwave Devices. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 1680-1683.	0.6	5
131	Breakdown-prone volume in terahertz wave beams. <i>Journal of Applied Physics</i> , 2013, 113, 233303.	1.1	5
132	Planar Slow-Wave Structure With Parasitic Mode Control. <i>IEEE Transactions on Electron Devices</i> , 2014, 61, 1655-1660.	1.6	5
133	Effect of atmospheric conditions on operation of terahertz systems for remote detection of ionizing materials. <i>Physics of Plasmas</i> , 2014, 21, 013108.	0.7	5
134	Injection locking of a two-mode electron oscillator with close frequencies. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	5
135	Suppression and nonlinear excitation of parasitic modes in second harmonic gyrotrons operating in a very high order mode. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	5
136	Remote Detection of Concealed Radioactive Materials by Using Focused Powerful Terahertz Radiation. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2016, 37, 515-535.	1.2	5
137	Nonlinear excitation of parasitic modes in harmonic gyrotrons. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	5
138	Theory of non-stationary processes in cyclotron resonance masers with counterrunning waves. <i>International Journal of Electronics</i> , 1984, 56, 275-286.	0.9	4
139	Interaction of modes in gyrotrons with a high-frequency field whose longitudinal structure is variable. <i>Radiophysics and Quantum Electronics</i> , 1990, 33, 627-632.	0.1	4
140	Effect of transverse nonuniformity of the rf field on the efficiency of microwave sources driven by linear electron beams. <i>Physics of Plasmas</i> , 2005, 12, 093107.	0.7	4
141	Development of a High Power Pulse THz Gyrotron. , 2007, , .		4
142	Electron dynamics in the process of mode switching in gyrotrons. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	4
143	Nonlinear Analysis of Low-Frequency Oscillations in Gyrotrons. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 1178-1184.	0.6	4
144	Study of a Stationary Breakdown Wave Under the Conditions of Noticeable Reflection of the Incident Electromagnetic Wave from a Gas-Discharge Plasma. <i>Radiophysics and Quantum Electronics</i> , 2015, 58, 327-338.	0.1	4

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145	To the Theory of Gyrotrons with Wide Emitters. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 141-151.	1.2	4
146	Magnetic matching of beam optics between quasilaminar and phase-mixed states. Physics of Plasmas, 2003, 10, 4095-4104.	0.7	3
147	Prebunching of Electrons in Harmonic-Multiplying Cluster-Cavity Gyro-Amplifiers. IEEE Transactions on Plasma Science, 2004, 32, 970-980.	0.6	3
148	Mode selectivity in multiple-beam klystrons. Physics of Plasmas, 2006, 13, 093101.	0.7	3
149	Mode Coupling in Sheet-Beam Klystrons. AIP Conference Proceedings, 2006, , .	0.3	3
150	Nonlinear theory of the orotron with inclined electron beam. Physics of Plasmas, 2006, 13, 123104.	0.7	3
151	Carbon-nanotube field-emitter driven compact, frequency-scanning THz source. , 2007, , .		3
152	Startup scenarios in MW-class gyrotrons with diode and triode-type electron guns. , 2008, , .		3
153	A micro-fabricated sheet-beam Orotron THz source. , 2011, , .		3
154	Terahertz gyrotrons. , 2011, , .		3
155	Open planar sheath slow-wave structure. , 2013, , .		3
156	Limiting current of intense electron beams in a decelerating gap. Physics of Plasmas, 2016, 23, .	0.7	3
157	Comparison of Two Concepts: Multi-Cavity Versus Clustered-Cavity Gyroklystrons. AIP Conference Proceedings, 2003, , .	0.3	2
158	Wave interaction in relativistic harmonic gyro-traveling-wave devices. Physical Review E, 2006, 73, 056401.	0.8	2
159	Self-Fields in a Planar Orotron. IEEE Transactions on Plasma Science, 2008, 36, 637-646.	0.6	2
160	Development of a high power pulse THz gyrotron. , 2008, , .		2
161	Structures and Breakdown. , 2009, , .		2
162	Studies of Multipactor in Dielectric-Loaded Accelerator Structures: Comparison of Simulation Results with Experimental Data. AIP Conference Proceedings, 2010, , .	0.3	2

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163	Axially Periodic Dielectric-Loaded Circular Waveguide for Microwave/Millimeter-Wave Devices. IEEE Transactions on Plasma Science, 2012, 40, 3420-3426.	0.6	2
164	3D Monte-Carlo simulations of multipactor in dielectric-loaded accelerating structures. , 2013, , .		2
165	Competition between modes with different axial structures in gyrotrons. Physics of Plasmas, 2014, 21, .	0.7	2
166	Experimental investigation of powerful THz gyrotrons for initiation of localized gas discharge. , 2015, , .		2
167	High efficiency inductive output tubes with intense annular electron beams. Physics of Plasmas, 2017, 24, 103116.	0.7	2
168	Possible gyrotron operation in the "start current" zone caused by the axial dependence of the phase of the resonator field. Physics of Plasmas, 2018, 25, 093108.	0.7	2
169	Physics of efficient gridless tetrodes with intense electron beams. Physics of Plasmas, 2019, 26, 093101.	0.7	2
170	Shadowing of the operating mode by sidebands in gyrotrons with diode-type electron guns. Physics of Plasmas, 2021, 28, 013110.	0.7	2
171	Some thoughts about millimeter-wave drivers for future linear colliders. AIP Conference Proceedings, 2001, , .	0.3	1
172	Design of An Inverted Magnetron Gun for a High Power Gyroklystron. AIP Conference Proceedings, 2003, , .	0.3	1
173	Start current analysis of a 140 GHz CPI gyrotron. AIP Conference Proceedings, 2003, , .	0.3	1
174	Progress in Pasotron Development. AIP Conference Proceedings, 2003, , .	0.3	1
175	Numerical models of mode interaction in gyrotrons: Capabilities and limitations. , 2008, , .		1
176	Ion Noise in the Plasma-Assisted Slow-Wave Oscillator. IEEE Transactions on Plasma Science, 2008, 36, 701-709.	0.6	1
177	To the theory of high-power gyrotrons with uptapered resonators. , 2010, , .		1
178	Development of THz gyrotrons with pulse solenoids for detecting concealed radioactive materials. , 2010, , .		1
179	Mode excitation during start-Up of a 1.5 MW, 110 GHz gyrotron. , 2011, , .		1
180	Experimental program to test a high-power, 670 GHz gyrotron, and its applicability to the remote detection of concealed radioactive materials. , 2012, , .		1

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181	Possible standoff detection of ionizing radiation using high-power THz electromagnetic waves. Proceedings of SPIE, 2012, , .	0.8	1
182	The concept of remote detection of concealed radioactive materials by using high-power THz radiation. , 2013, , .		1
183	Open planar sheath slow-wave structure. , 2013, , .		1
184	A Tribute to Dr. Robert (Bob) J. Barker 1949â€“2013. IEEE Transactions on Plasma Science, 2014, 42, 1482-1483.	0.6	1
185	Stability of gyrotron operation in very high-order modes. , 2014, , .		1
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