Gregory Nusinovich

List of Publications by Year
in descending order

238	4,430	196777 29	169272 56
papers	citations	h-index	g-index

239	239	239	1296
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mode Excitation in Gyrotrons With Triode-Type Electron Guns. IEEE Transactions on Electron Devices, 2022, 69, 785-791.	1.6	1
2	The Progress in the Studies of Mode Interaction in Gyrotrons. Journal of Infrared, Millimeter, and Terahertz Waves, 2022, 43, 1-47.	1.2	8
3	Automodulation instability in gyrotrons operating at the second cyclotron harmonic. Physics of Plasmas, 2021, 28, .	0.7	1
4	Shadowing of the operating mode by sidebands in gyrotrons with diode-type electron guns. Physics of Plasmas, 2021, 28, 013110.	0.7	2
5	Parametric Mode Interaction in Second Harmonic Gyrotrons. , 2021, , .		0
6	To the Theory of Gyrotrons with Wide Emitters. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 141-151.	1.2	4
7	Zones of soft and hard self-excitation in gyrotrons: Generalized approach. Physics of Plasmas, 2020, 27, .	0.7	7
8	Nonlinear excitation of parasitic modes in harmonic gyrotrons. Physics of Plasmas, 2020, 27, .	0.7	5
9	Some Advantages of the Gyrotrons with Width Emitters. , 2020, , .		0
10	To the theory of gyrotrons with confocal resonators. Physics of Plasmas, 2019, 26, .	0.7	12
11	Physics of efficient gridless tetrodes with intense electron beams. Physics of Plasmas, 2019, 26, 093101.	0.7	2
12	Efficiency of gyrotrons with a tapered magnetic field in the regime of soft self-excitation. Physics of Plasmas, 2018, 25, .	0.7	9
13	Experimental studies on radio frequency sources for ionospheric heaters. Physics of Plasmas, 2018, 25, .	0.7	0
14	Gyrotron Operation in the â€˜No-Start-Currentâ€™ Zone. , 2018, , .		0
15	Possible gyrotron operation in the â€œno start currentâ€•zone caused by the axial dependence of the phase of the resonator field. Physics of Plasmas, 2018, 25, 093108.	0.7	2
16	Efficiency of the gyrotron with single and double confocal resonators. Physics of Plasmas, 2018, 25, .	0.7	11
17	Saturation Effects in Frequency Pulling of Gyrotrons Operating in High-Order Axial Modes. IEEE Transactions on Plasma Science, 2018, 46, 2848-2855.	0.6	7
18	Simulations of High Power High Efficiency Sources for Mobile Ionospheric Heating. , 2018, , .		0

#	Article	IF	Citations
19	High efficiency inductive output tubes with intense annular electron beams. Physics of Plasmas, 2017, 24, 103116.	0.7	2
20	Highly efficient, megawatt-class, radio frequency source for mobile ionospheric heaters. Journal of Electromagnetic Waves and Applications, 2017, 31, 1786-1801.	1.0	8
21	Progress in developing a high efficiency IOT for ionospheric heating. , 2017, , .		1
22	A possibility of remote detection of air breakdown in a focal spot of microwave beam using reflected signal. EPJ Web of Conferences, 2017, 149, 02033.	0.1	0
23	Designing an Electron Gun for a High Efficiency Iot Capable of Ionospheric Heating. , 2017, , .		0
24	Review of the gyrotron theory. EPJ Web of Conferences, 2017, 149, 04018.	0.1	1
25	Theory of initial stage of the breakdown in non-uniform gas flow. EPJ Web of Conferences, 2017, 149, 02034.	0.1	0
26	Limiting current of intense electron beams in a decelerating gap. Physics of Plasmas, 2016, 23, .	0.7	3
27	Linear theory of frequency pulling in gyrotrons. Physics of Plasmas, 2016, 23, 053111.	0.7	8
28	Limiting current of intense electron beams in a decelerating gap. , 2016, , .		0
29	Self-consistent non-stationary theory of the gyrotron. Physics of Plasmas, 2016, 23, .	0.7	11
30	Breakdown simulations in a focused microwave beam within the simplified model. Physics of Plasmas, 2016, 23, 073109.	0.7	20
31	Novel high-power Radio-Frequency sources for Ionospheric Heating. , 2016, , .		0
32	Designing an electron gun for an efficient Mobile Ionospheric Heating Source. , 2016, , .		0
33	Novel high-power radio-frequency sources for mobile ionospheric heating. , 2016, , .		0
34	Initial Stage of the Microwave Ionization Wave Within a 1D Model. Radiophysics and Quantum Electronics, 2016, 58, 905-913.	0.1	1
35	Remote Detection of Concealed Radioactive Materials by Using Focused Powerful Terahertz Radiation. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 515-535.	1.2	5
36	Field Formation in the Interaction Space of Gyrotrons. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 111-122.	1.2	15

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37	A one-dimensional study of the evolution of the microwave breakdown in air. Physics of Plasmas, 2015, 22, .	0.7	29
38	Injection locking of a two-mode electron oscillator with close frequencies. Physics of Plasmas, 2015, 22, .	0.7	5
39	Effect of ion compensation of the beam space charge on gyrotron operation. Physics of Plasmas, 2015, 22, 043119.	0.7	10
40	Combined Resonances in Cyclotron Masers With Periodic Slow-Wave Structures. IEEE Transactions on Plasma Science, 2015, 43, 804-814.	0.6	13
41	Study of a Stationary Breakdown Wave Under the Conditions of Noticeable Reflection of the Incident Electromagnetic Wave from a Gas-Discharge Plasma. Radiophysics and Quantum Electronics, 2015, 58, 327-338.	0.1	4
42	Harmonic gyrotrons operating in high-order symmetric modes. Applied Physics Letters, 2015, 106, 013502.	1.5	9
43	Suppression and nonlinear excitation of parasitic modes in second harmonic gyrotrons operating in a very high order mode. Applied Physics Letters, 2015, 107, .	1.5	5
44	Experimental investigation of powerful THz gyrotrons for initiation of localized gas discharge. , 2015, , .		2
45	Active remote detection of radioactivity based on electromagnetic signatures. Physics of Plasmas, 2014, 21, .	0.7	28
46	Phase-locking by an external wave of a two-mode electron oscillator with close frequencies. , 2014, , .		0
47	A Tribute to Dr. Robert (Bob) J. Barker 1949â€“2013. IEEE Transactions on Plasma Science, 2014, 42, 1482-1483.	0.6	1
48	Planar slow-wave structure with parasitic modes control. , 2014, , .		0
49	Stability of gyrotron operation in very high-order modes. , 2014, , .		1
50	The Gyrotron at 50: Historical Overview. Journal of Infrared, Millimeter, and Terahertz Waves, 2014, 35, 325-381.	1.2	185
51	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
52	Planar Slow-Wave Structure With Parasitic Mode Control. IEEE Transactions on Electron Devices, 2014, 61, 1655-1660.	1.6	5
53	Design of a 10 MW, <inline-formula> <tex-math notation="TeX">L </tex-math></inline-formula>-Band, Annular Beam Klystron. IEEE Transactions on Electron Devices, 2014, 61, 1836-1841.	1.6	11
54	Effect of atmospheric conditions on operation of terahertz systems for remote detection of ionizing materials. Physics of Plasmas, 2014, 21, 013108.	0.7	5

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55	Theoretical Study of the Effect of Electron Beam Misalignment on Operation of the Gyrotron FU IV A. IEEE Transactions on Plasma Science, 2014, 42, 1586-1593.	0.6	6
56	Dependence of the gyrotron efficiency on the azimuthal index of non-symmetric modes. Physics of Plasmas, 2014, 21, 063112.	0.7	0
57	Competition between modes with different axial structures in gyrotrons. Physics of Plasmas, 2014, 21, .	0.7	2
58	Effect of electron beam misalignments on the gyrotron efficiency. Physics of Plasmas, 2013, 20, .	0.7	22
59	Experimental Study of the Start-Up Scenario of a 1.5-MW, 110-GHz Gyrotron. IEEE Transactions on Plasma Science, 2013, 41, 862-871.	0.6	16
60	Open planar sheath slow-wave structure. , 2013, , .		3
61	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
62	Low-voltage gyrotrons. Physics of Plasmas, 2013, 20, 033103.	0.7	35
63	Breakdown-prone volume in terahertz wave beams. Journal of Applied Physics, 2013, 113, 233303.	1.1	5
64	The concept of remote detection of concealed radioactive materials by using high-power THz radiation. , 2013, , .		1
65	Heating of microprotrusions in accelerating structures. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	29
66	Multipactor simulations in dielectric-loaded accelerating structures. , 2013, , .		0
67	Optimization and 3D analysis of high frequency gyrotrons. , 2013, , .		0
68	Open planar sheath slow-wave structure. , 2013, , .		1
69	Excitation of parasitic waves in forward-wave amplifiers with weak guiding fields. , 2013, , .		0
70	3D Monte-Carlo simulations of multipactor in dielectric-loaded accelerating structures. , 2013, , .		2
71	On optimization of sub-THz gyrotron parameters. Physics of Plasmas, 2012, 19, .	0.7	11
72	On the sensitivity of terahertz gyrotron based systems for remote detection of concealed radioactive materials. Journal of Applied Physics, 2012, 111, .	1.1	39

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73	Propagation of gamma rays and production of free electrons in air. Journal of Applied Physics, 2012, 112, .	1.1	16
74	Experimental program to test a high-power, 670 GHz gyrotron, and its applicability to the remote detection of concealed radioactive materials. , 2012, , .		1
75	A 670â€‰GHz gyrotron with record power and efficiency. Applied Physics Letters, 2012, 101, .	1.5	144
76	Axially Periodic Dielectric-Loaded Circular Waveguide for Microwave/Millimeter-Wave Devices. IEEE Transactions on Plasma Science, 2012, 40, 3420-3426.	0.6	2
77	Excitation of parasitic waves in forward-wave amplifiers with weak guiding fields. Physical Review E, 2012, 86, 066410.	0.8	0
78	Stability of gyrotron operation in very high-order modes. Physics of Plasmas, 2012, 19, .	0.7	11
79	Regions of azimuthal instability in gyrotrons. Physics of Plasmas, 2012, 19, 063103.	0.7	6
80	Possible standoff detection of ionizing radiation using high-power THz electromagnetic waves. Proceedings of SPIE, 2012, , .	0.8	1
81	Stability of gyrotron operation on the second harmonic. , 2012, , .		0
82	Development of a high-power pulsed subterahertz gyrotron for remote detection of sources of ionizing radiation. Radiophysics and Quantum Electronics, 2012, 54, 600-608.	0.1	14
83	Studies of gyrotron second harmonic operation in high-order modes. , 2011, , .		0
84	Mode excitation during start-Up of a 1.5 MW, 110 GHz gyrotron. , 2011, , .		1
85	Design of a Magnetron Injection Gun for a 670-GHz 300-kW Gyrotron. IEEE Transactions on Plasma Science, 2011, 39, 3337-3344.	0.6	13
86	Range, resolution and power of THz systems for remote detection of concealed radioactive materials. Journal of Applied Physics, 2011, 109, .	1.1	25
87	Numerical study of efficiency for a 670 GHz gyrotron. Physics of Plasmas, 2011, 18, .	0.7	31
88	Numerical study of the start-up scenario of a 670 GHz gyrotron operation at TE<inf>31,8</inf> mode. , 2011, , .		0
89	A micro-fabricated sheet-beam Orotron THz source. , 2011, , .		3
90	Effect of Metallic Dust on Operation of Repetition-Rate High-Power Microwave Devices. IEEE Transactions on Plasma Science, 2011, 39, 1680-1683.	0.6	5

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91	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
92	Excitation of backward waves in beam tunnels with saw-teeth wall profiles in gyrotrons. , 2011, , .		0
93	Terahertz gyrotrons. , 2011, , .		3
94	Field, Current and Heat Propagation inside Microprotrusions in High Gradient Structures. , 2010, , .		0
95	Studies of Multipactor in Dielectric-Loaded Accelerator Structures: Comparison of Simulation Results with Experimental Data. AIP Conference Proceedings, 2010, , .	0.3	2
96	Ion Bombardment of Microprotrusions in High Gradient Accelerating Structures. , 2010, , .		0
97	Orotron-based sub-millimeter-wave source. Proceedings of SPIE, 2010, , .	0.8	0
98	To the theory of high-power gyrotrons with uptapered resonators. , 2010, , .		1
99	Temperature rise and stress induced by microcracks in accelerating structures. Physical Review Special Topics: Accelerators and Beams, 2010, 13, .	1.8	0
100	Effect of the thickness of electron beams on the gyrotron efficiency. Physics of Plasmas, 2010, 17, 083105.	0.7	30
101	Possibilities for reducing the aftercavity interaction effect in gyrotrons. Physics of Plasmas, 2010, 17, 083106.	0.7	8
102	To the theory of high-power gyrotrons with uptapered resonators. Physics of Plasmas, 2010, 17, 053104.	0.7	18
103	Self-Excitation of a Tapered Gyrotron Oscillator. IEEE Transactions on Plasma Science, 2010, 38, 1200-1207.	0.6	16
104	Nonlinear Analysis of Low-Frequency Oscillations in Gyrotrons. IEEE Transactions on Plasma Science, 2010, 38, 1178-1184.	0.6	4
105	Excitation of Backward Waves in Beam Tunnels of High-Power Gyrotrons. IEEE Transactions on Plasma Science, 2010, 38, 1193-1199.	0.6	23
106	Single-Mode Excitation in High-Power Gyrotrons by Controlling Gun Perveance. IEEE Transactions on Plasma Science, 2010, 38, 1160-1167.	0.6	5
107	Detecting excess ionizing radiation by electromagnetic breakdown of air. Journal of Applied Physics, 2010, 108, .	1.1	81
108	Excitation of parasitic waves near cutoff in forward-wave amplifiers. Physical Review E, 2010, 82, 046404.	0.8	5

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109	10.5: Development of THz gyrotrons with pulse solenoids for detecting concealed radioactive materials. , 2010, , .		7
110	P3-2: Some possibilities for reducing after-cavity interaction in gyrotrons. , 2010, , .		0
111	Development of THz gyrotrons with pulse solenoids for detecting concealed radioactive materials. , 2010, , .		1
112	Structures and Breakdown. , 2009, , .		2
113	Self-Consistent Non-Stationary Theory of Multipactor in DLA Structures. , 2009, , .		0
114	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
115	Analysis of aftercavity interaction in gyrotrons. Physics of Plasmas, 2009, 16, .	0.7	23
116	Electron dynamics in the process of mode switching in gyrotrons. Physics of Plasmas, 2009, 16, .	0.7	4
117	Wave coupling in sheet- and multiple-beam traveling-wave tubes. Physics of Plasmas, 2009, 16, .	0.7	49
118	Self-consistent nonstationary two-dimensional model of multipactor in dielectric-loaded accelerator structures. Physics of Plasmas, 2009, 16, .	0.7	21
119	Theory of aftercavity interaction in gyrotrons. , 2009, , .		0
120	Design of a Subterahertz, Third-Harmonic, Continuous-Wave Gyrotron. IEEE Transactions on Plasma Science, 2008, 36, 591-596.	0.6	31
121	Analytical theory of low-frequency space charge oscillations in gyrotrons. Physics of Plasmas, 2008, 15, 103102.	0.7	10
122	Linear TWT analysis for sheet-beam interaction. , 2008, , .		0
123	MAGY Simulations of Mode Interaction in a Coaxial Gyrotron. IEEE Transactions on Plasma Science, 2008, 36, 606-619.	0.6	9
124	Excitation of parasitic modes in gyrotrons with fast voltage rise. Physics of Plasmas, 2008, 15, .	0.7	20
125	Effect of the parasitic mode on the stability of high-efficiency oscillations in the 1 MW ITER gyrotron. , 2008, , .		0
126	Numerical models of mode interaction in gyrotrons: Capabilities and limitations. , 2008, , .		1

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127	Self-Fields in a Planar Orotron. IEEE Transactions on Plasma Science, 2008, 36, 637-646.	0.6	2
128	Development of a high power pulse THz gyrotron. , 2008, , .		2
129	Ion Noise in the Plasma-Assisted Slow-Wave Oscillator. IEEE Transactions on Plasma Science, 2008, 36, 701-709.	0.6	1
130	Startup scenarios in MW-class gyrotrons with diode and triode-type electron guns. , 2008, , .		3
131	Demonstration of a THz pulse gyrotron. , 2008, , .		0
132	Stability of frequency-multiplying harmonic gyroklystrons. Physics of Plasmas, 2008, 15, .	0.7	17
133	Electron energy recuperation in gyrodevices. Physics of Plasmas, 2008, 15, 073104.	0.7	5
134	Analytical theory of low frequency oscillations in gyrotrons. , 2008, , .		0
135	Frequency-quadrupling gyrotrons. , 2008, , .		0
136	Effect of the transverse nonuniformity of the radiofrequency field on the start current and efficiency of gyrodevices with confocal mirrors. Physics of Plasmas, 2008, 15, .	0.7	7
137	High power THz oulse Gyrotron. , 2007, , .		0
138	On the theory of frequency-quadrupling gyroklystrons. Physics of Plasmas, 2007, 14, 053113.	0.7	27
139	Mode Switching in a Gyrotron with Azimuthally Corrugated Resonator. Physical Review Letters, 2007, 98, 205101.	2.9	23
140	Phase Locking in Backward-Wave Oscillators with Strong End Reflections. , 2007, , .		0
141	Development of a High Power Pulse THz Gyrotron. , 2007, , .		4
142	Carbon-nanotube field-emitter driven compact, frequency-scanning THz source. , 2007, , .		3
143	On the theory of frequency-multiplying gyroklystrons. , 2007, , .		0
144	Phase locking in backward-wave oscillators with strong end reflections. Physics of Plasmas, 2007, 14, 053109.	0.7	15

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145	Interpretation of the nonlinear mode excitation in the ITER gyrotron. Physics of Plasmas, 2007, 14, .	0.7	7
146	Start-Up Scenario in Gyrotrons with a Nonstationary Microwave-Field Structure. Physical Review Letters, 2006, 96, 125101.	2.9	25
147	Nonlinear theory of beam-wave interaction in the pasotron with a phase-mixed electron beam. Physics of Plasmas, 2006, 13, 023102.	0.7	11
148	Analytical nonlinear theory of the orotron. Physics of Plasmas, 2006, 13, 053107.	0.7	9
149	Mode selectivity in multiple-beam klystrons. Physics of Plasmas, 2006, 13, 093101.	0.7	3
150	Slow processes in startup scenarios of long-pulse gyrotrons. Physics of Plasmas, 2006, 13, 083106.	0.7	16
151	Mode Coupling in Sheet-Beam Klystrons. AIP Conference Proceedings, 2006, , .	0.3	3
152	Wave interaction in relativistic harmonic gyro-traveling-wave devices. Physical Review E, 2006, 73, 056401.	0.8	2
153	Long-pulse operation of a megawatt-class plasma-assisted slow-wave oscillator. Applied Physics Letters, 2006, 89, 103503.	1.5	11
154	Analytical theory of novel configurations of THz and sub-THz sources driven by linear electron beam. , 2006, , .		0
155	Recent Progress in the Pasotron Studies. , 2006, , .		0
156	Nonlinear theory of the orotron with inclined electron beam. Physics of Plasmas, 2006, 13, 123104.	0.7	3
157	The Pasotron: Progress in the Theory and Experiments. IEEE Transactions on Electron Devices, 2005, 52, 845-857.	1.6	29
158	Effect of transverse nonuniformity of the rf field on the efficiency of microwave sources driven by linear electron beams. Physics of Plasmas, 2005, 12, 093107.	0.7	4
159	Study of the Frequency Spectrum, Noise and Harmonics in the Output Radiation of the Pasotron. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
160	Miniature Plasma Cathode for High-Power Terahertz Orotron and Clinotron Oscillators. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
161	Azimuthal instability of radiation in gyrotrons with overmoded resonators. Physics of Plasmas, 2005, 12, 053106.	0.7	8
162	Modern Microwave and Millimeter-Wave Power Electronics. , 2005, , .		278

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163	Overlapping of Resonances and Stochasticity of Electron Trajectories in Cyclotron Masers. Physical Review Letters, 2004, 93, 055101.	2.9	7
164	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
165	Reflections in gyrotrons with radial output: Consequences for the ITER coaxial gyrotron. Physics of Plasmas, 2004, 11, 5423-5429.	0.7	10
166	A tribute to Georges Mourier (1923-2003). IEEE Transactions on Plasma Science, 2004, 32, 838-840.	0.6	0
167	Prebunching of Electrons in Harmonic-Multiplying Cluster-Cavity Gyro-Amplifiers. IEEE Transactions on Plasma Science, 2004, 32, 970-980.	0.6	3
168	Comparison of Multistage Gyroamplifiers Operating in the Frequency-Multiplication Regime With Gyroamplifiers Operating at a Given Cyclotron Harmonic. IEEE Transactions on Plasma Science, 2004, 32, 957-969.	0.6	5
169	Excitation of â€œmonotronâ€•oscillations in klystrons. Physics of Plasmas, 2004, 11, 4893-4903.	0.7	36
170	Coaxial Gyrotrons: Past, Present, and Future (Review). IEEE Transactions on Plasma Science, 2004, 32, 934-946.	0.6	89
171	Startup Scenarios in High-Power Gyrotrons. IEEE Transactions on Plasma Science, 2004, 32, 841-852.	0.6	61
172	Start currents in an overmoded gyrotron. Physics of Plasmas, 2003, 10, 4513-4520.	0.7	33
173	Effect of the radial thickness of electron beams on mode coupling and stability in gyrotrons. Physics of Plasmas, 2003, 10, 3335-3343.	0.7	12
174	Electron beam dynamics in Pasotron microwave sources. Physics of Plasmas, 2003, 10, 4865-4873.	0.7	12
175	Temporal study of a plasma loaded helix, backward wave oscillator. Physics of Plasmas, 2003, 10, 3746-3757.	0.7	5
176	Magnetic matching of beam optics between quasilaminar and phase-mixed states. Physics of Plasmas, 2003, 10, 4095-4104.	0.7	3
177	Design of An Inverted Magnetron Gun for a High Power Gyroklystron. AIP Conference Proceedings, 2003, , .	0.3	1
178	Comparison of Two Concepts: Multi-Cavity Versus Clustered-Cavity Gyroklystrons. AIP Conference Proceedings, 2003, , .	0.3	2
179	Start current analysis of a 140 GHz CPI gyrotron. AIP Conference Proceedings, 2003, , .	0.3	1
180	Beam matching in pasotrons. AIP Conference Proceedings, 2003, , .	0.3	0

#	Article	IF	Citations
181	Progress in Pasotron Development. AIP Conference Proceedings, 2003, , .	0.3	1
182	Prebunching Of Electrons In Harmonic-Multiplying Cluster-Cavity Gyro-Amplifiers. AIP Conference Proceedings, 2003, , .	0.3	0
183	Self-consistent nonstationary processes in phase-mixed electron beams focused by mobile ions. Physical Review E, 2002, 66, 056503.	0.8	18
184	Theory of clustered-cavity gyroklystron. Physics of Plasmas, 2002, 9, 4032-4039.	0.7	7
185	Realization of high efficiency in a plasma-assisted microwave source with two-dimensional electron motion. Physics of Plasmas, 2002, 9, 4114-4117.	0.7	14
186	Nonlinear theory of the gyro-twt: comparison of analytical method and numerical code data for the nrl gyro-twt. IEEE Transactions on Plasma Science, 2002, 30, 915-921.	0.6	13
187	Efficiency of helix pasotron backward-wave oscillator. IEEE Transactions on Plasma Science, 2002, 30, 1126-1133.	0.6	14
188	Nonstationary Phenomena in Tapered Gyro-Backward-Wave Oscillators. Physical Review Letters, 2001, 87, 218301.	2.9	62
189	Effect of the azimuthal inhomogeneity of electron emission on gyrotron operation. Physics of Plasmas, 2001, 8, 3473-3479.	0.7	32
190	Quasilinear theory of mode interaction in gyrotrons with azimuthally inhomogeneous electron emission. Physics of Plasmas, 2001, 8, 1029-1036.	0.7	11
191	Some thoughts about millimeter-wave drivers for future linear colliders. AIP Conference Proceedings, 2001, , .	0.3	1
192	Traveling-wave tubes and backward-wave oscillators with weak external magnetic fields. Physical Review E, 2001, 63, 066501.	0.8	11
193	Mode interaction in backward-wave oscillators with strong end reflections. Physics of Plasmas, 2000, 7, 1294-1301.	0.7	48
194	Cherenkov radiation of electromagnetic waves by electron beams in the absence of an external magnetic field. Physical Review E, 2000, 62, 2657-2666.	0.8	21
195	Advances in plasma-filled microwave sources. Physics of Plasmas, 1999, 6, 2225-2232.	0.7	46
196	Excitation of backward waves in forward wave amplifiers. Physical Review E, 1998, 58, 6594-6605.	0.8	18
197	Scaling Law for Ballistic Bunching in Multicavity Harmonic Gyroklystrons. Physical Review Letters, 1997, 78, 1815-1818.	2.9	10
198	Gain and bandwidth in stagger-tuned gyroklystrons. Physics of Plasmas, 1997, 4, 469-478.	0.7	35

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199	Effect of technical noise on radiation linewidth in free-running gyrotron oscillators. Physics of Plasmas, 1997, 4, 1413-1423.	0.7	23
200	Theory of the inverted gyrotwystron. Physics of Plasmas, 1997, 4, 3394-3402.	0.7	18
201	Space charge effects in plasma-filled traveling-wave tubes. Physics of Plasmas, 1997, 4, 4394-4403.	0.7	19
202	Review of high-power microwave source research. Review of Scientific Instruments, 1997, 68, 3945-3974.	0.6	337
203	Removal of halocarbons from air with highâ€power microwaves. Journal of Applied Physics, 1996, 80, 4189-4195.	1.1	12
204	Optimization of multistage harmonic gyrodevices. Physics of Plasmas, 1996, 3, 3133-3144.	0.7	19
205	Theory of relativistic cyclotron masers. Physical Review E, 1995, 52, 998-1012.	0.8	17
206	Wave interaction in gyrotrons with offâ€axis electron beams. Physics of Plasmas, 1995, 2, 4621-4630.	0.7	21
207	Theory of relativistic gyroâ€traveling wave devices. Physics of Plasmas, 1995, 2, 3494-3510.	0.7	22
208	A study of parametric instability in a harmonic gyrotron: Designs of third harmonic gyrotrons at 94 GHz and 210 GHz. Physics of Plasmas, 1995, 2, 2839-2846.	0.7	25
209	Twoâ€harmonic prebunching of electrons in multicavity gyrodevices. Physics of Plasmas, 1995, 2, 568-577.	0.7	43
210	High power operation of anX-band gyrotwistron. Physical Review Letters, 1994, 72, 3730-3733.	2.9	30
211	Nonlinear theory of stable, efficient operation of a gyrotron at cyclotron harmonics. Physics of Fluids B, 1993, 5, 4473-4485.	1.7	22
212	Parametric instabilities in gyro-devices at cyclotron harmonics. International Journal of Electronics, 1992, 72, 795-805.	0.9	8
213	Effect of window reflection on gyrotron operation. Physics of Fluids B, 1992, 4, 4131-4139.	1.7	60
214	Theory of the relativistic gyrotwistron. Physics of Fluids B, 1992, 4, 1058-1065.	1.7	32
215	Non-linear theory of a large-orbit gyrotron. International Journal of Electronics, 1992, 72, 959-967.	0.9	29
216	Interaction of modes in gyrotrons with a high-frequency field whose longitudinal structure is variable. Radiophysics and Quantum Electronics, 1990, 33, 627-632.	0.1	4

#	Article	IF	Citations
217	Toward a theory of parasitic radiation in gyrotrons. Radiophysics and Quantum Electronics, 1988, 31, 269-275.	0.1	11
218	Linear theory of a gyrotron with weakly tapered external magnetic field. International Journal of Electronics, 1988, 64, 127-135.	0.9	63
219	Theory of non-stationary processes in gyrotrons with low Q resonators. International Journal of Electronics, 1986, 61, 881-894.	0.9	167
220	Analysis of the self-modulation instability of gyrotron radiation. Radiophysics and Quantum Electronics, 1985, 28, 926-932.	0.1	11
221	Theory of non-stationary processes in cyclotron resonance masers with counterrunning waves. International Journal of Electronics, 1984, 56, 275-286.	0.9	4
222	An analytical theory for comparing the efficiency of gyrotrons with various electrodynamic systems. International Journal of Electronics, 1984, 57, 827-834.	0.9	30
223	Submillimeter-wave gyrotrons: Theory and experiment. Journal of Infrared, Millimeter and Terahertz Waves, 1983, 4, 629-637.	0.6	87
224	Experiments on submillimeter-wave gyrotrons. , 1983, , .		0
225	A submillimeter gyrotron with a pulsed magnetic field. Journal of Infrared, Millimeter and Terahertz Waves, 1982, 3, 765-769.	0.6	7
226	Invited paper. Powerful millimetre-wave gyrotrons. International Journal of Electronics, 1981, 51, 277-302.	0.9	144
227	Relativistic gyrotrons and cyclotron autoresonance masers. International Journal of Electronics, 1981, 51, 541-567.	0.9	286
228	Mode interaction in gyrotrons. International Journal of Electronics, 1981, 51, 457-474.	0.9	131
229	Some perspectives on the use of powerful gyrotrons for the electron-cyclotron plasma heating in large tokamaks. Journal of Infrared, Millimeter and Terahertz Waves, 1980, 1, 351-372.	0.6	24
230	On the nonlinear theory of a relativistic gyrotron. Radiophysics and Quantum Electronics, 1979, 22, 522-528.	0.1	21
231	Competition of modes resonant with different harmonics of cyclotron frequency in gyromonotrons. Radiophysics and Quantum Electronics, 1977, 20, 313-317.	0.1	19
232	Multimoding in cyclotron-resonance masers. Radiophysics and Quantum Electronics, 1976, 19, 1301-1306.	0.1	12
233	Competition of modes having arbitrary frequency separation in a gyromonotron. Radiophysics and Quantum Electronics, 1975, 18, 223-225.	0.1	7
234	Theory of synchronization of multimode electron microwave oscillators. Radiophysics and Quantum Electronics, 1975, 18, 1246-1252.	0.1	7

#	Article	IF	Citations
235	Stability of single-mode self-excited oscillations in a gyromonotron. Radiophysics and Quantum Electronics, 1974, 17, 1418-1424.	0.1	23
236	Concerning the theory of multimode oscillation in a gyromonotron. Radiophysics and Quantum Electronics, 1974, 17, 1305-1311.	0.1	82
237	Phase Sensitivity in Relativistic Gyrotrons. , 0, , .		0
238	Mode Selectivity in Multiple-Beam Klystrons. , 0, , .		0