

Richard J Temkin

List of Publications by Year in descending order

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4069
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of 565ÂµW of X -band power using a metamaterial power extractor for structure-based wakefield acceleration. Physical Review Accelerators and Beams, 2022, 25, .	0.6	0
2	Phase Measurements of a 140-GHz Confocal Gyro-Amplifier. Journal of Infrared, Millimeter, and Terahertz Waves, 2021, 42, 29-39.	1.2	1
3	Study of the Effect of Reflections on High-Power, 110-GHz Pulsed Gyrotron Operation. Journal of Infrared, Millimeter, and Terahertz Waves, 2021, 42, 547-556.	1.2	5
4	Second Harmonic 527-GHz Gyrotron for DNP-NMR: Design and Experimental Results. IEEE Transactions on Electron Devices, 2020, 67, 328-334.	1.6	41
5	Experimental demonstration of externally driven millimeter-wave particle accelerator structure. Applied Physics Letters, 2020, 117, .	1.5	53
6	Coherent high-power RF wakefield generation by electron bunch trains in a metamaterial structure. Applied Physics Letters, 2020, 116, .	1.5	10
7	Measurement of internal dark current in a 17ÂGHz accelerator structure with an elliptical sidewall. Physical Review Accelerators and Beams, 2020, 23, .	0.6	0
8	Phase Measurements of a 140 GHz Confocal Gyro-Amplifier. , 2020, , .		0
9	High Gradient and rf Breakdown Measurements in a Millimeter-Wave Accelerating Cavity. , 2020, , .		2
10	Modular, triple-resonance, transmission line DNP MAS probe for 500â€MHz/330â€GHz. Journal of Magnetic Resonance, 2019, 307, 106573.	1.2	2
11	High frequency dynamic nuclear polarization: New directions for the 21st century. Journal of Magnetic Resonance, 2019, 306, 128-133.	1.2	33
12	Measurement of Dielectric Multipactor Thresholds at 110ÂGHz. Physical Review Letters, 2019, 123, 175001.	2.9	14
13	High-Gradient Test Results of W-Band Accelerator Structures. , 2019, , .		4
14	Second Harmonic 527 GHz Gyrotron for DNP-NMR. , 2019, , .		0
15	Laser-driven semiconductor switch for generating nanosecond pulses from a megawatt gyrotron. Applied Physics Letters, 2019, 114, 164102.	1.5	32
16	Linear theory of instabilities generated by an electron beam in a metamaterial-loaded waveguide. Physics of Plasmas, 2019, 26, 033104.	0.7	1
17	Subterahertz Photonic Crystal Klystron Amplifier. Physical Review Letters, 2019, 123, 244801.	2.9	8
18	Metamaterial-Inspired Vacuum Electron Devices and Accelerators. IEEE Transactions on Electron Devices, 2019, 66, 207-218.	1.6	48

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19	Generation of High-Power, Reversed-Cherenkov Wakefield Radiation in a Metamaterial Structure. Physical Review Letters, 2019, 122, 014801.	2.9	38
20	Measurement of internal dark current in a 17ÅGHz, high gradient accelerator structure. Physical Review Accelerators and Beams, 2019, 22, .	0.6	3
21	High power long pulse microwave generation from a metamaterial structure with reverse symmetry. Physics of Plasmas, 2018, 25, .	0.7	14
22	Results from mm-Wave Accelerating Structure High-Gradient Tests. , 2018, , .		4
23	Review of metamaterial-inspired vacuum electron devices. , 2018, , .		4
24	Grating Polarizers at 170 GHz for ECRH Systems: Low Power Tests and Simulations. IEEE Transactions on Antennas and Propagation, 2018, 66, 4719-4728.	3.1	2
25	High power microwave generation by Cherenkov-cyclotron instability in a metamaterial structure with negative group velocity. , 2018, , .		0
26	Design and test of a W-band photonic bandgap extended interaction Klystron amplifier. , 2018, , .		1
27	Design of a 250 GHz disk-loaded waveguide TWT amplifier. , 2018, , .		0
28	Design and High-Power Test of an Internal Coupler to HE ₁₁ Mode in Corrugated Waveguide for High-Power Gyrotrons. IEEE Transactions on Electron Devices, 2018, 65, 2316-2320.	1.6	9
29	Operation of a 140-GHz Gyro-Amplifier Using a Dielectric-Loaded, Severless Confocal Waveguide. IEEE Transactions on Plasma Science, 2017, 45, 2835-2840.	0.6	32
30	Photonic-band-gap gyrotron amplifier with picosecond pulses. Applied Physics Letters, 2017, 111, 233504.	1.5	35
31	Prototyping high-gradient mm-wave accelerating structures. Journal of Physics: Conference Series, 2017, 874, 012039.	0.3	11
32	Design Of Oversized Twts With Photonic Band-Gap Structures. , 2017, , .		0
33	Long pulse operation of a high power microwave source with a metamaterial loaded waveguide. , 2017, , .		2
34	Design of a 94 GHz photonic bandgap based extended interaction klystron amplifier. , 2017, , .		2
35	A 140 GHz gyro-amplifier using a dielectric-loaded, sever-less confocal waveguide. , 2017, , .		1
36	Theory of Linear and Nonlinear Gain in a Gyroamplifier Using a Confocal Waveguide. IEEE Transactions on Plasma Science, 2017, 45, 2438-2449.	0.6	13

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37	Cryogenic testing of the 2.1GHz five-cell superconducting RF cavity with a photonic band gap coupler cell. Applied Physics Letters, 2016, 108, 222603.	1.5	1
38	Coherent Cherenkov-Cyclotron Radiation Excited by an Electron Beam in a Metamaterial Waveguide. Physical Review Letters, 2016, 117, 237701.	2.9	47
39	Electron density and gas density measurements in a millimeter-wave discharge. Physics of Plasmas, 2016, 23, .	0.7	37
40	Novel linear analysis for a gyrotron oscillator based on a spectral approach. Physics of Plasmas, 2016, 23, .	0.7	10
41	Controllability Study of Propagating Mode Content by an Angle-Adjustable Mirror of a Miter-Bend in EC H&CD Transmission Line. IEEE Transactions on Plasma Science, 2016, 44, 3392-3397.	0.6	1
42	Amplification of picosecond pulses with a photonic-band-gap gyro-TWT. , 2016, , .		3
43	A 140 GHz gyro-amplifier using a sever-less confocal waveguide. , 2016, , .		5
44	Designs of W-band TWT amplifiers with large beam tunnels. , 2016, , .		1
45	Mode Conversion Losses in Expansion Units for ITER ECH Transmission Lines. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 72-86.	1.2	5
46	Simple Expressions for the Design of Linear Tapers in Overmoded Corrugated Waveguides. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 100-110.	1.2	3
47	Experimental high gradient testing of a 17.1GHz photonic band-gap accelerator structure. Physical Review Accelerators and Beams, 2016, 19, .	0.6	8
48	High power experimental studies of hybrid photonic band gap accelerator structures. Physical Review Accelerators and Beams, 2016, 19, .	0.6	5
49	Higher order mode damping in a five-cell superconducting rf cavity with a photonic band gap coupler cell. Physical Review Accelerators and Beams, 2016, 19, .	0.6	0
50	Overmoded traveling wave tubes for MM and THz applications. , 2015, , .		1
51	Modeling of the interaction of a volumetric metallic metamaterial structure with a relativistic electron beam. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	11
52	An Overmoded W-Band Coupled-Cavity TWT. IEEE Transactions on Electron Devices, 2015, 62, 1609-1616.	1.6	83
53	Overmoded W-band traveling wave tube (TWT) design and test. , 2015, , .		1
54	THz gyrotrons and their applications. , 2014, , .		7

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55	Sub-wavelength waveguide loaded by a complementary electric metamaterial for vacuum electron devices. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	61
56	Design of a high power S-Band backward-wave oscillator with a metamaterial interaction circuit. , 2014, , .		0
57	High power test of an internal coupler to corrugated waveguide for high power gyrotrons. , 2014, , .		3
58	Direct Machining of Low-Loss THz Waveguide Components With an RF Choke. <i>IEEE Microwave and Wireless Components Letters</i> , 2014, 24, 842-844.	2.0	15
59	Design of a volume mode W-band TWT amplifier. , 2014, , .		3
60	Determination of waveguide mode content using irradiance moments. , 2014, , .		0
61	Cold test of gyrotron cavity modes using a 3D CFDTD method. , 2014, , .		1
62	Design and experimental results from a 527 GHz gyrotron for DNP-NMR spectroscopy. , 2014, , .		5
63	Design of a Metamaterial-Based Backward-Wave Oscillator. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 930-936.	0.6	65
64	Experimental Results for a Pulsed 110/124.5-GHz Megawatt Gyrotron. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 1128-1134.	0.6	16
65	Progress of a 140 GHz gyro-amplifier using a confocal waveguide. , 2014, , .		4
66	Cold test of gyrotron cavity modes using a 3D CFDTD method. , 2014, , .		5
67	Hot test of gyrotron cavity interaction using a 3D CFDTD PIC method. , 2014, , .		5
68	Simple Correctors for Elimination of High-Order Modes in Corrugated Waveguide Transmission Lines. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 29-37.	0.6	14
69	A 94 GHz overmoded coupled cavity TWT experiment. , 2014, , .		3
70	Corrugated Waveguide Mode Content Analysis Using Irradiance Moments. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 3358-3364.	0.6	1
71	Hot test of gyrotron cavity interaction using a 3D CFDTD PIC method. , 2014, , .		0
72	94 GHz overmoded TWT experiment. , 2014, , .		0

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73	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
74	A high gain photonic band gap gyrotron amplifier. , 2013, , .		4
75	Photonic-Band-Gap Traveling-Wave Gyrotron Amplifier. Physical Review Letters, 2013, 111, 235101.	2.9	100
76	Continuously Tunable 250GHz Gyrotron with a Double Disk Window for DNP-NMR Spectroscopy. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 42-52.	1.2	45
77	High Frequency Dynamic Nuclear Polarization. Accounts of Chemical Research, 2013, 46, 1933-1941.	7.6	480
78	Millimeter wave scattering and diffraction in 110GHz air breakdown plasma. Physics of Plasmas, 2013, 20, 043507.	0.7	20
79	Calculation of wakefields in a 17GHz beam-driven photonic band-gap accelerator structure. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	4
80	High power breakdown testing of a photonic band-gap accelerator structure with elliptical rods. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	14
81	Active negative-index metamaterial powered by an electron beam. Physical Review B, 2012, 86, .	1.1	64
82	Spectroscopic temperature measurements of air breakdown plasma using a 110 GHz megawatt gyrotron beam. Physics of Plasmas, 2012, 19, .	0.7	28
83	Mode Content Determination of Terahertz Corrugated Waveguides Using Experimentally Measured Radiated Field Patterns. IEEE Transactions on Plasma Science, 2012, 40, 1530-1537.	0.6	12
84	Mode excitation during the voltage rise in megawatt gyrotrons. , 2012, , .		1
85	A 250 GHz gyrotron with a 3 GHz tuning bandwidth for dynamic nuclear polarization. Journal of Magnetic Resonance, 2012, 221, 147-153.	1.2	87
86	A novel high power 3 GHz tunable 250 GHz gyrotron for Dynamic Nuclear Polarization. , 2012, , .		1
87	Operation of a 140GHz gyro-amplifier using a confocal waveguide. , 2012, , .		1
88	Over-moded W-band Traveling Wave Tube design. , 2012, , .		2
89	A 250 GHz photonic band gap gyrotron traveling wave amplifier. , 2012, , .		2
90	A 140GHz pulsed EPR/212MHz NMR spectrometer for DNP studies. Journal of Magnetic Resonance, 2012, 223, 170-179.	1.2	37

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91	Dynamic nuclear polarization at 700MHz/460GHz. Journal of Magnetic Resonance, 2012, 224, 1-7.	1.2	85
92	Low-loss Transmission Lines for High-power Terahertz Radiation. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 695-714.	1.2	58
93	Real-time, T-ray imaging using a sub-terahertz gyrotron. Journal of the Korean Physical Society, 2012, 60, 1857-1861.	0.3	12
94	330 GHz helically corrugated waveguide. , 2011, , .		4
95	Recent progress at MIT on THz gyrotron oscillators for DNP/NMR. , 2011, , .		3
96	Mode excitation during start-Up of a 1.5 MW, 110 GHz gyrotron. , 2011, , .		1
97	Progress on a 250 GHz photonic band gap gyrotron traveling wave tube. , 2011, , .		3
98	Design of an over-moded 94 GHz coupled-cavity TWT. , 2011, , .		1
99	Overview of the ITER EC H&CD system and its capabilities. Fusion Engineering and Design, 2011, 86, 951-954.	1.0	82
100	An overview of control system for the ITER electron cyclotron system. Fusion Engineering and Design, 2011, 86, 959-962.	1.0	2
101	Vacuum Electronic High Power Terahertz Sources. IEEE Transactions on Terahertz Science and Technology, 2011, 1, 54-75.	2.0	841
102	THz Dynamic Nuclear Polarization NMR. IEEE Transactions on Terahertz Science and Technology, 2011, 1, 145-163.	2.0	161
103	The EC H&CD Transmission Line for ITER. Fusion Science and Technology, 2011, 59, 709-717.	0.6	42
104	Dynamic nuclear polarization at 9 T using a novel 250 GHz gyrotron microwave source. Journal of Magnetic Resonance, 2011, 213, 404-409.	1.2	12
105	Operation of a Continuously Frequency-Tunable Second-Harmonic CW 330-GHz Gyrotron for Dynamic Nuclear Polarization. IEEE Transactions on Electron Devices, 2011, 58, 2777-2783.	1.6	157
106	Calculation of a Hyperbolic Corrugated Horn Converting the TEM ₀₀ Mode to the HE ₁₁ Mode. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 283-294.	1.2	10
107	Experimental Results on a 1.5MW, 110GHz Gyrotron with a Smooth Mirror Mode Converter. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 358-370.	1.2	25
108	Microwave field distribution in a magic angle spinning dynamic nuclear polarization NMR probe. Journal of Magnetic Resonance, 2011, 210, 16-23.	1.2	73

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109	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle X \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -band photonic band-gap accelerator structure breakdown experiment. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2011, 14, .	1.8	20
110	Measurements of electron avalanche formation time in W-band microwave air breakdown. <i>Physics of Plasmas</i> , 2011, 18, 080707.	0.7	20
111	Observation of plasma array dynamics in 110 GHz millimeter-wave air breakdown. <i>Physics of Plasmas</i> , 2011, 18, 100704.	0.7	29
112	Loss Estimate for ITER ECH Transmission Line Including Multimode Propagation. <i>Fusion Science and Technology</i> , 2010, 57, 196-207.	0.6	46
113	Measurement of RF Transmission Mode in ITER Relevant EC H&CD Transmission Line. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2010, 31, 949.	1.2	19
114	Measurement of wakefields in a 17GHz photonic bandgap accelerator structure. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 618, 16-21.	0.7	9
115	Amplification of picosecond pulses in a 140 GHz gyro-TWT. , 2010, , .		1
116	14.4: Design of a 250 GHz photonic band gap gyrotron amplifier. , 2010, , .		7
117	Continuous-Wave Operation of a Frequency-Tunable 460-GHz Second-Harmonic Gyrotron for Enhanced Nuclear Magnetic Resonance. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 1150-1159.	0.6	216
118	Linearly Polarized Modes of a Corrugated Metallic Waveguide. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010, 58, 2772-2780.	2.9	69
119	10.3: Experimental measurement of picosecond pulse amplification in a 140 GHz Gyro-TWT. , 2010, , .		2
120	14.2: Operation of a 1.5 MW, 110 GHz gyrotron with an advanced internal mode converter. , 2010, , .		1
121	P3-3: Measurement of loss in high power 170 GHz gyrotron transmission lines. , 2010, , .		0
122	Resolution and polarization distribution in cryogenic DNP/MAS experiments. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5861.	1.3	87
123	Amplification of Picosecond Pulses in a 140-GHz Gyrotron-Travelling Wave Tube. <i>Physical Review Letters</i> , 2010, 105, 135101.	2.9	50
124	Optimization of THz wave coupling into samples in DNP/NMR spectroscopy. , 2010, , .		1
125	10.6: Operation of a tunable second-harmonic 330 GHz CW gyrotron. , 2010, , .		1
126	Solid-state dynamic nuclear polarization at 263 GHz: spectrometer design and experimental results. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5850.	1.3	315

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127	Mode-Content Analysis and Field Reconstruction of Propagating Waves in Corrugated Waveguides of an ECH System. Plasma and Fusion Research, 2010, 5, S1029-S1029.	0.3	6
128	Continuous-Wave Operation of a Frequency-Tunable 460-GHz Second-Harmonic Gyrotron for Enhanced Nuclear Magnetic Resonance. IEEE Transactions on Electron Devices, 2010, 38, 1150-1159.	1.6	10
129	Design and testing of an internal mode converter for a 1.5 MW, 110 GHz gyrotron with a depressed collector. , 2009, , .		1
130	Mode retrieval from intensity profile measurements using irradiant waveguide-modes. , 2009, , .		4
131	Calculation and measurement of higher order mode losses in ITER ECH transmission lines. , 2009, , .		1
132	Activities on Realization of High-Power and Steady-State ECRH System and Achievement of High Performance Plasmas in LHD. , 2009, , .		1
133	Demonstration of a 140-GHz 1-kW Confocal Gyro-Traveling-Wave Amplifier. IEEE Transactions on Electron Devices, 2009, 56, 818-827.	1.6	55
134	Cryogenic sample exchange NMR probe for magic angle spinning dynamic nuclear polarization. Journal of Magnetic Resonance, 2009, 198, 261-270.	1.2	108
135	Calculation of Radiation from a Helically Cut Waveguide for a Gyrotron Mode Converter in the Quasi-Optical Approximation. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 30, 8-25.	1.2	15
136	Plasma structures observed in gas breakdown using a 1.5 MW, 110 GHz pulsed gyrotron. Physics of Plasmas, 2009, 16, .	0.7	113
137	Design of an overmoded W-band TWT. , 2009, , .		10
138	Active real-time imaging system employed with a CW 460-GHz gyrotron and a pyroelectric array camera. , 2009, , .		7
139	Observation and Study of Low-Frequency Oscillations in a 1.5-MW 110-GHz Gyrotron. IEEE Transactions on Plasma Science, 2009, 37, 1219-1224.	0.6	19
140	A tunable continuous-wave 330 GHz gyrotron for enhanced nuclear magnetic resonance. , 2009, , .		2
141	An overmoded 140 GHz, 1 kW quasioptical gyro-twt with an internal mode converter. , 2009, , .		2
142	Low-Power Testing of Losses in Millimeter-Wave Transmission Lines for High-Power Applications. Journal of Infrared, Millimeter and Terahertz Waves, 2008, 29, 1011-1018.	0.6	7
143	High-Field Dynamic Nuclear Polarization for Solid and Solution Biological NMR. Applied Magnetic Resonance, 2008, 34, 237-263.	0.6	296
144	Dynamic nuclear polarization at high magnetic fields. Journal of Chemical Physics, 2008, 128, 052211.	1.2	734

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145	Simulation of the bulk and surface modes supported by a diamond lattice of metal wires. Journal of Applied Physics, 2008, 104, 103107.	1.1	2
146	Observation of Large Arrays of Plasma Filaments in Air Breakdown by 1.5-MW 110-GHz Gyrotron Pulses. Physical Review Letters, 2008, 100, 035003.	2.9	145
147	Study of after cavity interaction in a high efficiency 1.5 MW, 110 GHz gyrotron. , 2008, , .		1
148	Operation of a wideband 140 GHz, 1 kW confocal gyro-traveling wave amplifier. , 2008, , .		2
149	Mode conversion losses in ITER transmission lines. , 2008, , .		8
150	A wideband 140 GHz, 1 kW confocal gyro-traveling wave amplifier. , 2008, , .		2
151	Propagating mode analysis and field reconstruction in the corrugated waveguides of a high power electron cyclotron heating system. , 2008, , .		1
152	Imaging of Atmospheric Air Breakdown Caused by a High-Power 110-GHz Pulsed Gaussian Beam. IEEE Transactions on Plasma Science, 2008, 36, 936-937.	0.6	14
153	Effects of after cavity interaction in a 1.5 MW, 110 GHz gyrotron with a depressed collector. , 2008, , .		1
154	CW operation of a tunable 330/460 GHz gyrotron for enhanced nuclear magnetic resonance. , 2008, , .		18
155	Handling Technology of Mega-Watt Millimeter-Waves For Optimized Heating of Fusion Plasmas. Journal of Microwave Power and Electromagnetic Energy, 2008, 43, 60-70.	0.4	12
156	Mode content analysis in circular corrugated waveguide using radiated field. , 2007, , .		2
157	Design of Electron Cyclotron Heating and Current Drive System of ITER. AIP Conference Proceedings, 2007, , .	0.3	4
158	Low power testing of losses in components for the ITER ECH transmission lines. , 2007, , .		1
159	Photonic bandgap (PBG) accelerator structure design. , 2007, , .		1
160	Absolute scale power measurements of frequency-locked coherent transition radiation. Physical Review Special Topics: Accelerators and Beams, 2007, 10, .	1.8	5
161	Design of a 460 GHz Continuous-Wave Gyrotron Operating at TE _{11,2} Mode. , 2007, , .		3
162	Observation of wakefields in a 17 Ghz metallic photonic bandgap (PBG) structure. , 2007, , .		0

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163	Surface waves on interface of 3D metal-wire diamond lattice for accelerator applications. , 2007, , .		0
164	Efficiency Enhancement of a 1.5-MW, 110-GHz Gyrotron with a Single-Stage Depressed Collector. Fusion Science and Technology, 2007, 52, 334-339.	0.6	17
165	Experimental Investigation of Filamentary Arrays in a Breakdown Plasma Generated by a 1.5 MW, 110 GHz Gyrotron. , 2007, , .		0
166	Progress of a 140 GHz, 1 kW Confocal Gyro-TWT Amplifier. , 2007, 2007, 1-2.		4
167	Experimental observation of the effect of aftercavity interaction in a depressed collector gyrotron oscillator. Physics of Plasmas, 2007, 14, .	0.7	30
168	250GHz CW gyrotron oscillator for dynamic nuclear polarization in biological solid state NMR. Journal of Magnetic Resonance, 2007, 189, 251-279.	1.2	158
169	Efficient Low-Voltage Operation of a CW Gyrotron Oscillator at 233 GHz. IEEE Transactions on Plasma Science, 2007, 35, 27-30.	0.6	63
170	Spectral Characteristics of a 140-GHz Long-Pulsed Gyrotron. IEEE Transactions on Plasma Science, 2007, 35, 559-564.	0.6	28
171	Continuous-wave operation of a 460-GHz second harmonic gyrotron oscillator. IEEE Transactions on Plasma Science, 2006, 34, 524-533.	0.6	128
172	Operational characteristics of a 14-W 140-GHz gyrotron for dynamic nuclear polarization. IEEE Transactions on Plasma Science, 2006, 34, 518-523.	0.6	64
173	Continuous-wave submillimeter-wave gyrotrons. , 2006, 6373, 63730C.		15
174	Spatial dispersion in metamaterials with negative dielectric permittivity and its effect on surface waves. Optics Letters, 2006, 31, 2051.	1.7	42
175	Experimental Verification of Phase Retrieval of Quasi-Optical Millimeter-Wave Beams. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 3899-3905.	2.9	18
176	Coherent Transition and Smith Purcell Radiation Experiments. AIP Conference Proceedings, 2006, , .	0.3	0
177	Power measurement of frequency-locked Smith-Purcell radiation. Physical Review Special Topics: Accelerators and Beams, 2006, 9, .	1.8	26
178	Single-Stage Depressed Collector Experimental Results from a 110 GHz 1.5 MW Gyrotron at MIT. , 2006, , .		1
179	Measurement of subpicosecond bunch lengths using coherent Smith-Purcell radiation. Physical Review Special Topics: Accelerators and Beams, 2006, 9, .	1.8	17
180	Experimental results for a 1.5MW, 110GHz gyrotron oscillator with reduced mode competition. Physics of Plasmas, 2006, 13, 023103.	0.7	26

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181	Evaluation of phase correcting mirrors for an 84GHz gyrotron based on direct phase measurements at low-power level. Fusion Engineering and Design, 2005, 73, 9-18.	1.0	4
182	Synthesis of gyrotron phase-correcting mirrors using irradiance moments. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 2610-2615.	2.9	5
183	Experimental Studies of Local and Global Emission Uniformity for a Magnetron Injection Gun. IEEE Transactions on Electron Devices, 2005, 52, 825-828.	1.6	18
184	Second Harmonic Operation at 460 GHz and Broadband Continuous Frequency Tuning of a Gyrotron Oscillator. IEEE Transactions on Electron Devices, 2005, 52, 798-807.	1.6	182
185	Megawatt Power Level 120 GHz Gyrotrons for ITER Start-Up. Journal of Physics: Conference Series, 2005, 25, 1-7.	0.3	17
186	Time- and frequency-domain models for Smith-Purcell radiation from a two-dimensional charge moving above a finite length grating. Physical Review E, 2005, 71, 016501.	0.8	30
187	Observation of Frequency-Locked Coherent Terahertz Smith-Purcell Radiation. Physical Review Letters, 2005, 94, 054803.	2.9	206
188	Corrugated waveguide and directional coupler for CW 250-GHz gyrotron DNP experiments. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1863-1869.	2.9	73
189	Demonstration of a 17-GHz, High-Gradient Accelerator with a Photonic-Band-Gap Structure. Physical Review Letters, 2005, 95, 074801.	2.9	99
190	Fabrication and cold test of photonic band gap resonators and accelerator structures. Physical Review Special Topics: Accelerators and Beams, 2005, 8, .	1.8	35
191	Studies of the 1.5-MW 110-GHz Gyrotron Experiment. IEEE Transactions on Plasma Science, 2004, 32, 877-883.	0.6	19
192	Dynamic nuclear polarization at 9T using a novel 250GHz gyrotron microwave source. Journal of Magnetic Resonance, 2003, 160, 85-90.	1.2	209
193	High-Frequency Dynamic Nuclear Polarization in MAS Spectra of Membrane and Soluble Proteins. Journal of the American Chemical Society, 2003, 125, 13626-13627.	6.6	107
194	High-Power 140-GHz Quasioptical Gyrotron Traveling-Wave Amplifier. Physical Review Letters, 2003, 90, 258302.	2.9	131
195	Maturing ECRF technology for plasma control. Nuclear Fusion, 2003, 43, 1501-1504.	1.6	25
196	Two-Dimensional ^{13}C - ^{13}C Correlation Spectroscopy with Magic Angle Spinning and Dynamic Nuclear Polarization. Journal of the American Chemical Society, 2002, 124, 3214-3215.	6.6	59
197	Simulation of photonic band gaps in metal rod lattices for microwave applications. Journal of Applied Physics, 2002, 91, 960-968.	1.1	110
198	New opportunities in vacuum electronics using photonic band gap structures. AIP Conference Proceedings, 2002, , .	0.3	0

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199	Photonic Band Gap Structures for Accelerator Applications. AIP Conference Proceedings, 2002, , .	0.3	4
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