

Gregory Denisov

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176
papers

2,654
citations

27
h-index

42
g-index

207
ext. papers

3,395
ext. citations

1.7
avg, IF

4.91
L-index

#	Paper	IF	Citations
176	Gyrotron Traveling Wave Amplifier with a Helical Interaction Waveguide. <i>Physical Review Letters</i> , 1998 , 81, 5680-5683	7.4	139
175	High-gain wide-band gyrotron traveling wave amplifier with a helically corrugated waveguide. <i>Physical Review Letters</i> , 2000 , 84, 2746-9	7.4	137
174	110 GHz gyrotron with a built-in high-efficiency converter. <i>International Journal of Electronics</i> , 1992 , 72, 1079-1091	1.2	117
173	Experimental tests of a 263 GHz gyrotron for spectroscopic applications and diagnostics of various media. <i>Review of Scientific Instruments</i> , 2015 , 86, 054705	1.7	85
172	Ka-Band Gyrotron Traveling-Wave Tubes With the Highest Continuous-Wave and Average Power. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 4264-4267	2.9	78
171	Millimeter-Wave HF Relativistic Electron Oscillators. <i>IEEE Transactions on Plasma Science</i> , 1987 , 15, 2-15	1.3	58
170	Compression of frequency-modulated pulses using helically corrugated waveguides and its potential for generating multigigawatt rf radiation. <i>Physical Review Letters</i> , 2004 , 92, 118301	7.4	51
169	Development in Russia of Megawatt Power Gyrotrons for Fusion. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011 , 32, 337-342	2.2	50
168	Mirror synthesis for gyrotron quasi-optical mode converters. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1995 , 16, 735-744		50
167	Theory and simulations of a gyrotron backward wave oscillator using a helical interaction waveguide. <i>Applied Physics Letters</i> , 2006 , 89, 091504	3.4	47
166	Experimental demonstration of high-efficiency cyclotron-autoresonance-maser operation. <i>Physical Review Letters</i> , 1995 , 75, 3102-3105	7.4	47
165	High-efficiency wideband gyro-TWTs and gyro-BWOs with helically corrugated waveguides. <i>Radiophysics and Quantum Electronics</i> , 2007 , 50, 95-107	0.7	46
164	Megawatt Gyrotrons for ECR Heating and Current-Drive Systems in Controlled-Fusion Facilities. <i>Radiophysics and Quantum Electronics</i> , 2003 , 46, 757-768	0.7	46
163	Method for Synthesis of Waveguide Mode Converters. <i>Radiophysics and Quantum Electronics</i> , 2004 , 47, 615-620	0.7	45
162	High power terahertz sources for spectroscopy and material diagnostics. <i>Physics-Uspekhi</i> , 2016 , 59, 595-604		44
161	Asymptotic Theory of High-Efficiency Converters of Higher-Order Waveguide Modes into Eigenwaves of Open Mirror Lines. <i>Radiophysics and Quantum Electronics</i> , 2004 , 47, 283-296	0.7	41
160	Gyrotron Development for High Power THz Technologies at IAP RAS. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2012 , 33, 715-723	2.2	40

159	High-power sub-terahertz source with a record frequency stability at up to 1 Hz. <i>Scientific Reports</i> , 2018 , 8, 4317	4.9	39
158	First experimental tests of powerful 250 GHz gyrotron for future fusion research and collective Thomson scattering diagnostics. <i>Review of Scientific Instruments</i> , 2018 , 89, 084702	1.7	39
157	Corrugated cylindrical resonators for short-wavelength relativistic microwave oscillators. <i>Radiophysics and Quantum Electronics</i> , 1982 , 25, 407-413	0.7	38
156	Perspective gyrotron with mode converter for co- and counter-rotation operating modes. <i>Applied Physics Letters</i> , 2015 , 106, 263501	3.4	32
155	Development of a Prototype of a 1-MW 105-156-GHz Multifrequency Gyrotron. <i>Radiophysics and Quantum Electronics</i> , 2004 , 47, 396-404	0.7	32
154	Resonant reflectors for free electron masers. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1995 , 16, 745-752		30
153	Terahertz gyrotrons: State of the art and prospects. <i>Journal of Communications Technology and Electronics</i> , 2014 , 59, 792-797	0.5	29
152	Generation of 3 GW microwave pulses in X-band from a combination of a relativistic backward-wave oscillator and a helical-waveguide compressor. <i>Physics of Plasmas</i> , 2010 , 17, 110703	2.1	29
151	Cascade of Two SWS -Band Helical-Waveguide Gyro-TWTs With High Gain and Output Power: Concept and Modeling. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 1305-1309	2.9	28
150	Recent Upgrades and Extensions of the ASDEX Upgrade ECRH System. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011 , 32, 274-282	2.2	27
149	Cyclotron autoresonance masers—recent experiments and prospects. <i>International Journal of Electronics</i> , 1992 , 72, 969-981	1.2	27
148	Experimental Study of the Pulsed Terahertz Gyrotron with Record-Breaking Power and Efficiency Parameters. <i>Radiophysics and Quantum Electronics</i> , 2014 , 56, 497-507	0.7	26
147	Selective excitation of high-order modes in circular waveguides. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1992 , 13, 1369-1385		26
146	Use of Huygens' principle for analysis and synthesis of the fields in oversized waveguides. <i>Radiophysics and Quantum Electronics</i> , 2006 , 49, 344-353	0.7	25
145	Powerful millimeter-wave generators based on the stimulated Cerenkov radiation of relativistic electron beams. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1984 , 5, 1311-1332		25
144	Status, Operation, and Extension of the ECRH System at ASDEX Upgrade. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2016 , 37, 45-54	2.2	24
143	Stabilization of gyrotron frequency by reflection from nonresonant and resonant loads. <i>Technical Physics Letters</i> , 2015 , 41, 628-631	0.7	23
142	Frequency and phase stabilization of a multimode gyrotron with megawatt power by an external signal. <i>Technical Physics Letters</i> , 2014 , 40, 382-385	0.7	21

141	High-power electrostatic free-electron maser as a future source for fusion plasma heating: experiments in the short-pulse regime. <i>Physical Review E</i> , 1999 , 59, 6058-63	2.4	21
140	Zones of Frequency Locking by an External Signal in a Multimode Gyrotron of a Megawatt Power Level. <i>Radiophysics and Quantum Electronics</i> , 2016 , 58, 893-904	0.7	20
139	CW Ka-Band Kilowatt-Level Helical-Waveguide Gyro-TWT. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 2250-2255	2.9	20
138	Principles of Synthesis of Multimode Waveguide Units. <i>IEEE Transactions on Plasma Science</i> , 2010 , 38, 2825-2830	1.3	20
137	CW Operation of a W-Band High-Gain Helical-Waveguide Gyrotron Traveling-Wave Tube. <i>IEEE Electron Device Letters</i> , 2020 , 41, 773-776	4.4	19
136	Powerful electromagnetic millimeter-wave oscillations produced by stimulated scattering of microwave radiation by relativistic electron beams. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1984 , 5, 1389-1403		19
135	Microwave System for Feeding and Extracting Power To and From a Gyrotron Traveling-Wave Tube Through One Window. <i>IEEE Electron Device Letters</i> , 2014 , 35, 789-791	4.4	18
134	Phase-Imposing Initiation of Cherenkov Superradiance Emission by an Ultrashort-Seed Microwave Pulse. <i>Physical Review Letters</i> , 2017 , 118, 264801	7.4	18
133	Present Status of the New Multifrequency ECRH System for ASDEX Upgrade. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 324-331	1.3	18
132	A High-Efficiency Second-Harmonic Gyrotron with a Depressed Collector. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2008 , 29, 1004-1010		18
131	Cyclotron resonance masers: State of the art. <i>Radiophysics and Quantum Electronics</i> , 1996 , 39, 423-446	0.7	17
130	Generation of gigantic ultra-short microwave pulses based on passive mode-locking effect in electron oscillators with saturable absorber in the feedback loop. <i>Physics of Plasmas</i> , 2016 , 23, 050702	2.1	17
129	Frequency Locking and Stabilization Regimes in High-Power Gyrotrons with Low-Q Resonators. <i>Radiophysics and Quantum Electronics</i> , 2016 , 58, 684-693	0.7	17
128	Russian Gyrotrons: Achievements and Trends. <i>IEEE Journal of Microwaves</i> , 2021 , 1, 260-268		17
127	Generation of trains of ultrashort microwave pulses by two coupled helical gyro-TWTs operating in regimes of amplification and nonlinear absorption. <i>Physics of Plasmas</i> , 2017 , 24, 023103	2.1	16
126	Experimental Study of Microwave Pulse Compression Using a Five-Fold Helically Corrugated Waveguide. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 1090-1096	4.1	16
125	Proof-of-Principle Experiment on High-Power Gyrotron Traveling-Wave Tube With a Microwave System for Driving and Extracting Power Through One Window. <i>IEEE Microwave and Wireless Components Letters</i> , 2016 , 26, 288-290	2.6	16
124	Generation of a periodic sequence of powerful ultrashort pulses in a traveling wave tube with bleachable absorber in the feedback loop. <i>Technical Physics Letters</i> , 2015 , 41, 836-839	0.7	16

123	Two-dimensional realization of a method for synthesis of waveguide converters. <i>Radiophysics and Quantum Electronics</i> , 2006 , 49, 961-967	0.7	16
122	Millimeter-Wave Gyrotron Research System. I. Description of the Facility. <i>Radiophysics and Quantum Electronics</i> , 2019 , 61, 752-762	0.7	15
121	To the problem of energy recuperation in gyrotrons. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1995 , 16, 459-471		15
120	A high-speed quasi-optical wave phase switch based on the induced photoconductivity effect in silicon. <i>Technical Physics Letters</i> , 2007 , 33, 735-737	0.7	14
119	High-Efficient Mode Converter for ITER Gyrotron. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2005 , 26, 771-785		14
118	Q-switching in the electron backward-wave oscillator. <i>Physics of Plasmas</i> , 2011 , 18, 103102	2.1	13
117	Progress and First Results With the New Multifrequency ECRH System for ASDEX Upgrade. <i>IEEE Transactions on Plasma Science</i> , 2009 , 37, 395-402	1.3	13
116	Low-power excitation of gyrotron-type modes in a cylindrical waveguide using quasi-optical techniques. <i>International Journal of Electronics</i> , 1995 , 79, 215-226	1.2	13
115	Waveguide mode converters with step type coupling. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1991 , 12, 131-140		13
114	Nanosecond Microwave Semiconductor Switches for 258-266 GHz. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2015 , 36, 845-855	2.2	12
113	A Helical-Waveguide Gyro-TWT at the Third Cyclotron Harmonic. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 3387-3392	2.9	12
112	Mode Competition Effect on Frequency Locking of a Multimode Gyrotron by a Monochromatic External Signal. <i>Radiophysics and Quantum Electronics</i> , 2017 , 59, 638-647	0.7	12
111	Optically controlled semiconductor microwave modulator with nanosecond response. <i>Technical Physics Letters</i> , 2011 , 37, 368-370	0.7	12
110	New TE ₀₁ Waveguide Bends. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2009 , 30, 556-565	2.2	12
109	First microwave generation in the FOM free-electron maser. <i>Plasma Physics and Controlled Fusion</i> , 1998 , 40, A139-A156	2	12
108	Millimeter-Wave Tunable Notch Filter Based on Waveguide Extension for Plasma Diagnostics. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 1685-1689	1.3	11
107	Development of Waveguide Semiconductor Switches of Microwave Radiation in the 70- and 260-ghz Ranges. <i>Radiophysics and Quantum Electronics</i> , 2014 , 57, 509-518	0.7	11
106	Nanosecond Laser-Driven Semiconductor Switch for 70 GHz Microwave Radiation. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2012 , 33, 638-648	2.2	11

105	Millimeter Wave Multi-mode Transmission Line Components. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011 , 32, 343-357	2.2	11
104	Observation of the high-Q modes inside the resonance zone of two-dimensional Bragg structures. <i>Applied Physics Letters</i> , 2008 , 92, 103512	3.4	11
103	The conversion of waves in a bent waveguide with a variable curvature. <i>Radiophysics and Quantum Electronics</i> , 1990 , 33, 540-545	0.7	11
102	Gyrotron Frequency Stabilization by a Weak Reflected Wave. <i>Radiophysics and Quantum Electronics</i> , 2016 , 58, 673-683	0.7	11
101	Principal Enhancement of THz-Range Gyrotron Parameters Using Injection Locking. <i>IEEE Electron Device Letters</i> , 2020 , 41, 777-780	4.4	10
100	An Experimental Study of the Influence of an External Signal on the Generation Mode of a Megawatt-Power Gyrotron. <i>Technical Physics Letters</i> , 2018 , 44, 473-475	0.7	10
99	Microwave source of multigigawatt peak power based on a relativistic backward-wave oscillator and a compressor. <i>Technical Physics</i> , 2011 , 56, 269-273	0.5	10
98	Eigenmodes evolution due to changing the shape of the waveguide cross-section. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1997 , 18, 733-744		10
97	Tokamak with Reactor Technologies (TRT): Concept, Missions, Key Distinctive Features and Expected Characteristics. <i>Plasma Physics Reports</i> , 2021 , 47, 1092-1106	1.2	10
96	Subterahertz Nanosecond Switches Driven by Second-Long Laser Pulses. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2017 , 7, 225-227	3.4	9
95	Multifrequency gyrotron with high-efficiency synthesized waveguide converter. <i>Technical Physics Letters</i> , 2007 , 33, 350-352	0.7	9
94	Experimental observation of superradiance in the stimulated scattering of an intense microwave pump wave by a counterpropagating subnanosecond high-current relativistic electron bunch. <i>JETP Letters</i> , 2005 , 82, 263-266	1.2	9
93	Minimization of Diffraction Losses in Big Gaps of Multi-Mode Waveguides. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2005 , 26, 953-966		9
92	Methods of Wavebeam Phase Front Reconstruction Using Intensity Measurements. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2000 , 21, 83-90		9
91	Development of 1 mw output power level gyrotron for ITER. <i>Plasma Devices and Operations</i> , 1998 , 6, 111-117		9
90	Simple millimeter wave notch filters based on rectangular waveguide extensions. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1995 , 16, 1231-1238		9
89	Automated Microwave Complex on the Basis of a Continuous-Wave Gyrotron with an Operating Frequency of 263 GHz and an Output Power of 1 kW. <i>Radiophysics and Quantum Electronics</i> , 2016 , 58, 639-648	0.7	9
88	W-Band 5 MW Pulse Relativistic Gyrotron. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 1865-1867	2.9	8

87	Transmission Line for 258 GHz Gyrotron DNP Spectrometry. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011 , 32, 823-837	2.2	8
86	Experimental results on microwave pulse compression using helically corrugated waveguide. <i>Journal of Applied Physics</i> , 2010 , 108, 054908	2.5	8
85	Mode content analysis from intensity measurements in a few cross sections of oversized waveguides. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1997 , 18, 1323-1334		8
84	Mode content analysis from intensity measurements in a few cross sections of oversized waveguides. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1997 , 18, 1505-1516		8
83	A 45-GHz/20-kW Gyrotron-Based Microwave Setup for the Fourth-Generation ECR Ion Sources. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 3963-3969	2.9	7
82	Development status of gyrotron setup for ITER ECW system 2015 ,		7
81	A traveling-wave ring resonator with Bragg deflectors in a two-stage terahertz free-electron laser. <i>Technical Physics Letters</i> , 2014 , 40, 730-734	0.7	7
80	Method for synthesis of wideband multimode waveguide elements. <i>Radiophysics and Quantum Electronics</i> , 2007 , 50, 720-725	0.7	7
79	Efficiency Enhancement of Components Based on Talbot Effect. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2007 , 28, 923-935		7
78	Enhancement of cavity selectivity in relativistic gyrotrons operated at axisymmetric modes. <i>Radiophysics and Quantum Electronics</i> , 2008 , 51, 756-767	0.7	7
77	Quasi-optical multiplexer based on reflecting diffraction grating. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1991 , 12, 1035-1043		7
76	Cyclotron autoresonance maser with high Doppler frequency up-conversion. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1992 , 13, 1857-1873		7
75	New Radiation Input/Output Systems for Millimeter-Wave Gyrotron Traveling-Wave Tubes. <i>Radiophysics and Quantum Electronics</i> , 2016 , 58, 769-776	0.7	7
74	. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 2334-2339	2.9	6
73	Switching of Subterahertz Waves Within a Duration Range of Ten Orders of Magnitude. <i>Radiophysics and Quantum Electronics</i> , 2019 , 61, 603-613	0.7	6
72	Comparison of Different Methods for Calculating Gyrotron Quasi-Optical Mode Converters. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2013 , 34, 62-70	2.2	6
71	Nonlinear nonequilibrium processes in a silicon switch of high-power microwave radiation. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2009 , 73, 91-95	0.4	6
70	Method for achievement of a multigigawatt peak power by compressing microwave pulses of a relativistic backward-wave oscillator in a helical waveguide. <i>Radiophysics and Quantum Electronics</i> , 2007 , 50, 36-48	0.7	6

69	On the resonant scattering at guide dielectric windows. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1996 , 17, 933-945		6
68	Time-domain theory of low-Q gyrotrons with frequency-dependent reflections of output radiation. <i>Physics of Plasmas</i> , 2018 , 25, 013104	2.1	5
67	Generation of a Periodic Series of High-Power Ultra-Short Pulses in a Gyro-TWT with a Bleachable Cyclotron Absorber in the Feedback Circuit. <i>Radiophysics and Quantum Electronics</i> , 2016 , 58, 598-606	0.7	5
66	Series of powerful CW gyrotrons in the range 105 – 140 GHz. <i>EPJ Web of Conferences</i> , 2017 , 147, 04003	0.3	5
65	Numerical Simulation of Waveguide TM01-TE11 Mode Converter Using FDTD Method. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2005 , 26, 341-361		5
64	Recent experiments and simulations on gyro-TWTs with helically corrugated waveguides 2016 ,		5
63	High-Power Ka-Band Transmission Line with a Frequency Bandwidth of 1 GHz. <i>Radiophysics and Quantum Electronics</i> , 2016 , 58, 777-788	0.7	5
62	An Experimental Study of the External-Signal Influence on the Oscillation Regime of a Megawatt Gyrotron. <i>Radiophysics and Quantum Electronics</i> , 2019 , 62, 481-489	0.7	5
61	Studies of a Gyrotron Traveling-Wave Tube with Helically Corrugated Waveguides at IAP Ras: Results and Prospects. <i>Radiophysics and Quantum Electronics</i> , 2019 , 62, 455-466	0.7	5
60	Theoretical and Experimental Investigations of Terahertz-Range Gyrotrons with Frequency and Spectrum Control. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020 , 41, 1131-1143	2.2	4
59	W-band helical-waveguide gyro-TWTs yielding high gain and high output power: Design and simulations 2017 ,		4
58	First high power experiments with the Dutch free electron maser. <i>Physics of Plasmas</i> , 1998 , 5, 2029-2036	2.1	4
57	Methods of Calculation and Parameter Control of the Eigenmodes of a Simple Two-Mirror Cavity. <i>Radiophysics and Quantum Electronics</i> , 2000 , 43, 663-670	0.7	4
56	Peculiarities of Optimizing the Subsystems of a Continuous-Wave Gyrotron with a Generation Frequency of 0.26 THz at the Fundamental Cyclotron Resonance. <i>Radiophysics and Quantum Electronics</i> , 2016 , 58, 649-659	0.7	4
55	Locking of the Frequency of a Multimode Gyrotron by a Quasi-Monochromatic External Signal. <i>Radiophysics and Quantum Electronics</i> , 2019 , 62, 490-505	0.7	4
54	Nonlinear Cyclotron Resonance Absorber for a Microwave Subnanosecond Pulse Generator Powered by a Helical-Waveguide Gyrotron Traveling-Wave Tube. <i>Physical Review Applied</i> , 2020 , 13,	4.3	4
53	A 250-Watts, 0.5-THz continuous-wave second-harmonic gyrotron. <i>IEEE Electron Device Letters</i> , 2021 , 1-1	4.4	4
52	Quasi-Optical Orthomode Splitters for Input/Output of a Powerful W-Band Gyro-TWT. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 4600-4606	2.9	4

51	Multiparametric gyrotron power control during microwave processing of materials. <i>Technical Physics Letters</i> , 2013 , 39, 140-142	0.7	3
50	Recent results in development in Russia of megawatt power gyrotrons for fusion 2013 ,		3
49	ECRH for JET: A feasibility study. <i>Fusion Engineering and Design</i> , 2011 , 86, 805-809	1.7	3
48	Broad band matched windows for gyrotrons 2009 ,		3
47	Fast quasi-optical phase shifter based on the effect of induced photo conductivity in silicon. <i>Radiophysics and Quantum Electronics</i> , 2007 , 50, 786-793	0.7	3
46	Oversized \$Ka\$-Band Traveling-Wave Window for a High-Power Transmission. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006 , 54, 4130-4135	4.1	3
45	RF Pulse Compression Using Helically Corrugated Waveguides. <i>AIP Conference Proceedings</i> , 2006 ,	0	3
44	Mode dynamics in a free electron maser with broadband frequency-dispersive feedback. <i>Physics of Plasmas</i> , 2001 , 8, 638-642	2.1	3
43	Planar two-dimensional Bragg resonators with corrugated surfaces: Theory and experiment. <i>Technical Physics Letters</i> , 2000 , 26, 348-351	0.7	3
42	TE ₀₁ -TEM ₀₀ Quasi-Optical Mode Converter. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2000 , 21, 187-192		3
41	Investigation of mode interaction for a gyrotron with dense mode spectrum. <i>Journal of Electromagnetic Waves and Applications</i> , 2021 , 35, 19-26	1.3	3
40	Cyclotron Resonance Maser With Zigzag Quasi-Optical Transmission Line: Concept and Modeling. <i>IEEE Transactions on Electron Devices</i> , 2021 , 1-5	2.9	3
39	Development of helical-waveguide gyro-TWT and gyro-BWO 2009 ,		2
38	Calculation and Optimization of 3D Waveguiding System with Help of Integral Equation Method. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2009 , 30, 319-327	2.2	2
37	Experimental study of a gyrotron operated at the second gyrofrequency harmonic with the single-stage energy recovery. <i>Radiophysics and Quantum Electronics</i> , 2008 , 51, 768-771	0.7	2
36	Gyro-TWTs and Gyro-BWOs with helically corrugated waveguides 2007 ,		2
35	Synthesis of the sequence of phase correctors forming the desired field. <i>Radiophysics and Quantum Electronics</i> , 2004 , 47, 966-973	0.7	2
34	Comparison of Wavebeam Phase Front Retrieval Methods Based on Iterative Algorithm and Irradiance Moments. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2003 , 24, 1677-1685		2

33	Specific features of mode spectrum of planar structures with two-dimensional Bragg corrugation (theory and experiment). <i>Radiophysics and Quantum Electronics</i> , 2005 , 48, 748-761	0.7	2
32	Phase Locking of a Gyrotron with Low-Frequency Voltage and Current Fluctuations by an External Monochromatic Signal. <i>Radiophysics and Quantum Electronics</i> , 2020 , 63, 392-402	0.7	2
31	Investigation into Microwave Absorption in Semiconductors for Frequency-Multiplication Devices and Radiation-Output Control of Continuous and Pulsed Gyrotrons. <i>Semiconductors</i> , 2020 , 54, 1069-1074	0.7	2
30	From millimeter to microns IAP RAS powerful sources for various applications. <i>EPJ Web of Conferences</i> , 2018 , 195, 00001	0.3	2
29	Development of gyro-devices at IAP/GYCOM 2017 ,		1
28	Using the Talbot Effect for Summation of Microwave Signals in the Millimeter-Wavelength Band. <i>Radiophysics and Quantum Electronics</i> , 2016 , 58, 789-792	0.7	1
27	Dynamics of Multimode Gyrotron Locked by Quasi-Monochromatic External Signal 2019 ,		1
26	The Collector of a Megawatt Gyrotron with a Static Nonadiabatic Magnetic Field. <i>Radiophysics and Quantum Electronics</i> , 2013 , 56, 379-384	0.7	1
25	A five-channel quasi-optical multiplexer of 12- to 90-GHz frequency range. <i>Technical Physics Letters</i> , 2017 , 43, 1037-1040	0.7	1
24	Study of Talbot Effects in a Bent Waveguide with Constant Curvature. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2009 , 30, 349-356	2.2	1
23	Synthesized quasi-optical TE ₀₂ -HE ₁₁ mode converter 2009 ,		1
22	High efficient gyrotron-based systems for technological applications 2008 ,		1
21	Modeling of dynamic effects in a laser-driven semiconductor switch of high-power microwaves 2008 ,		1
20	Experimental observation of high-Q modes at the center of a resonance band of two-dimensional Bragg structures. <i>Technical Physics Letters</i> , 2007 , 33, 117-121	0.7	1
19	Efficient Broad Band HE ₁₁ Mode Exciter. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2002 , 23, 1171-1178		1
18	Numerical Simulation of a TM ₀₁ -HE ₁₁ Waveguide Mode Converter by the FDTD Method. <i>Radiophysics and Quantum Electronics</i> , 2005 , 48, 185-194	0.7	1
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