

# M Yu Glyavin

## List of Publications by Year in descending order

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372  
papers

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147726

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374  
times ranked

733  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of 1.5-kW, 1-THz Coherent Radiation from a Gyrotron with a Pulsed Magnetic Field. <i>Physical Review Letters</i> , 2008, 100, 015101.	2.9	322
2	A 670-GHz gyrotron with record power and efficiency. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	144
3	Review of Subterahertz and Terahertz Gyrodevices at IAP RAS and FIR FU. <i>IEEE Transactions on Plasma Science</i> , 2009, 37, 36-43.	0.6	120
4	24-84-GHz Gyrotron Systems for Technological Microwave Applications. <i>IEEE Transactions on Plasma Science</i> , 2004, 32, 67-72.	0.6	119
5	Experimental tests of a 263 GHz gyrotron for spectroscopic applications and diagnostics of various media. <i>Review of Scientific Instruments</i> , 2015, 86, 054705.	0.6	108
6	Development of THz Gyrotrons at IAP RAS and FIR UF and Their Applications in Physical Research and High-Power THz Technologies. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015, 5, 788-797.	2.0	72
7	A High Harmonic Gyrotron With an Axis-Encircling Electron Beam and a Permanent Magnet. <i>IEEE Transactions on Plasma Science</i> , 2004, 32, 903-909.	0.6	70
8	High power terahertz sources for spectroscopy and material diagnostics. <i>Physics-Uspekhi</i> , 2016, 59, 595-604.	0.8	69
9	A point-like source of extreme ultraviolet radiation based on a discharge in a non-uniform gas flow, sustained by powerful gyrotron radiation of terahertz frequency band. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	66
10	High-power sub-terahertz source with a record frequency stability at up to 1-Hz. <i>Scientific Reports</i> , 2018, 8, 4317.	1.6	65
11	A novel THz-band double-beam gyrotron for high-field DNP-NMR spectroscopy. <i>Review of Scientific Instruments</i> , 2017, 88, 094708.	0.6	57
12	Terahertz Gyrotrons at IAP RAS: Status and New Designs. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011, 32, 371-379.	1.2	56
13	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.	0.6	56
14	Novel and Emerging Applications of the Gyrotrons Worldwide: Current Status and Prospects. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2021, 42, 715-741.	1.2	56
15	The Gyrotrons as Promising Radiation Sources for THz Sensing and Imaging. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 980.	1.3	55
16	Development of THz-range Gyrotrons for Detection of Concealed Radioactive Materials. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011, 32, 380-402.	1.2	47
17	Frequency-Tunable CW Gyro-BWO With a Helically Rippled Operating Waveguide. <i>IEEE Transactions on Plasma Science</i> , 2004, 32, 884-889.	0.6	46
18	Russian Gyrotrons: Achievements and Trends. <i>IEEE Journal of Microwaves</i> , 2021, 1, 260-268.	4.9	45

#	ARTICLE	IF	CITATIONS
19	Gyrotron Development for High Power THz Technologies at IAP RAS. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 715-723.	1.2	41
20	Method of Providing the High Cyclotron Harmonic Operation Selectivity in a Gyrotron With a Spatially Developed Operating Mode. IEEE Transactions on Electron Devices, 2017, 64, 3893-3897.	1.6	41
21	Experimental investigation of a 110 GHz/1 MW gyrotron with the one-step depressed collector. Journal of Infrared, Millimeter and Terahertz Waves, 1997, 18, 2129-2136.	0.6	39
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	Molecular gas spectroscopy using radioacoustic detection and high-power coherent subterahertz radiation sources. Journal of Molecular Spectroscopy, 2017, 331, 9-16.	0.4	39
24	A proposal to use reflection with delay for achieving the self-modulation and stochastic regimes in millimeter-wave gyrotrons. Technical Physics Letters, 1998, 24, 436-438.	0.2	36
25	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
26	Low-voltage gyrotrons. Physics of Plasmas, 2013, 20, 033103.	0.7	35
27	Terahertz gyrotrons: State of the art and prospects. Journal of Communications Technology and Electronics, 2014, 59, 792-797.	0.2	35
28	Influence of reflections on mode competition in gyrotrons. IEEE Transactions on Plasma Science, 2000, 28, 588-596.	0.6	34
29	Reflections Influence on the Gyrotron Oscillation Regimes. Journal of Infrared, Millimeter and Terahertz Waves, 1998, 19, 1499-1511.	0.6	33
30	Frequency Tunable sub-THz Gyrotron for Direct Measurements of Positronium Hyperfine Structure. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 975-983.	1.2	33
31	Design of a Subterahertz, Third-Harmonic, Continuous-Wave Gyrotron. IEEE Transactions on Plasma Science, 2008, 36, 591-596.	0.6	31
32	Gyrotron FU series "â€" current status of development and applications. Vacuum, 2001, 62, 123-132.	1.6	30
33	Stabilization of gyrotron frequency by reflection from nonresonant and resonant loads. Technical Physics Letters, 2015, 41, 628-631.	0.2	30
34	Millimeter-Wave Gyrotron Research System. I. Description of the Facility. Radiophysics and Quantum Electronics, 2019, 61, 752-762.	0.1	30
35	Experimental studies of gyrotron electron beam systems. IEEE Transactions on Plasma Science, 1999, 27, 474-483.	0.6	29
36	A one-dimensional study of the evolution of the microwave breakdown in air. Physics of Plasmas, 2015, 22, .	0.7	29

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37	Demonstration of a Selective Oversized Cavity in a Terahertz Second-Harmonic Gyrotron. IEEE Electron Device Letters, 2020, 41, 1412-1415.	2.2	29
38	Title is missing!. Journal of Infrared, Millimeter and Terahertz Waves, 2000, 21, 1191-1209.	0.6	28
39	Application of the 263 GHz/1 W gyrotron setup to produce a metal oxide nanopowder by the evaporation-condensation technique. Vacuum, 2017, 145, 340-346.	1.6	26
40	High Temperature Thermal Insulation System for Millimeter Wave Sintering of B4C. Journal of Infrared, Millimeter and Terahertz Waves, 2005, 26, 1531-1541.	0.6	25
41	Development of a Magnetic Cusp Gun for Terahertz Harmonic Gyrodevices. IEEE Transactions on Electron Devices, 2012, 59, 3635-3640.	1.6	25
42	Observation of extreme ultraviolet light emission from an expanding plasma jet with multiply charged argon or xenon ions. Applied Physics Letters, 2018, 113, .	1.5	25
43	Electron-optical systems for planar gyrotrons. Physics of Plasmas, 2014, 21, 023106.	0.7	24
44	Sub-Terahertz High-Sensitivity High-Resolution Molecular Spectroscopy With a Gyrotron. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 502-512.	2.0	24
45	Design of a Second Harmonic Double-Beam Continuous Wave Gyrotron with Operating Frequency of 0.79 THz. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 1164-1175.	1.2	23
46	The Role of Nanodispersed Catalysts in Microwave Application during the Development of Unconventional Hydrocarbon Reserves: A Review of Potential Applications. Processes, 2021, 9, 420.	1.3	23
47	Measurement of plasma density in the discharge maintained in a nonuniform gas flow by a high-power terahertz-wave gyrotron. Physics of Plasmas, 2016, 23, .	0.7	22
48	Operation of a sub-terahertz CW gyrotron with an extremely low voltage. Physics of Plasmas, 2017, 24, .	0.7	22
49	Gyrotron collector systems: Types and capabilities. Infrared Physics and Technology, 2018, 91, 46-54.	1.3	21
50	Breakdown simulations in a focused microwave beam within the simplified model. Physics of Plasmas, 2016, 23, 073109.	0.7	20
51	Development of a high harmonic gyrotron with an axis-encircling electron beam and a permanent magnet. Vacuum, 2005, 77, 539-546.	1.6	19
52	A High-Efficiency Second-Harmonic Gyrotron with a Depressed Collector. Journal of Infrared, Millimeter and Terahertz Waves, 2008, 29, 1004-1010.	0.6	19
53	The concept of an electron-optical system with field emitter for a spectroscopic gyrotron. Infrared Physics and Technology, 2016, 78, 185-189.	1.3	19
54	Frequency Stabilization in a Sub-Terahertz Gyrotron With Delayed Reflections of Output Radiation. IEEE Transactions on Plasma Science, 2018, 46, 2465-2469.	0.6	19

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55	A 250-Watts, 0.5-THz Continuous-Wave Second-Harmonic Gyrotron. IEEE Electron Device Letters, 2021, 42, 1666-1669.	2.2	19
56	Technological gyrotron with low accelerating voltage. Radiophysics and Quantum Electronics, 2005, 48, 741-747.	0.1	18
57	The Discharge Maintained by High-Power Terahertz Radiation in a Nonuniform Gas Flow. Radiophysics and Quantum Electronics, 2014, 56, 561-565.	0.1	18
58	Gyrotron Frequency Stabilization by a Weak Reflected Wave. Radiophysics and Quantum Electronics, 2016, 58, 673-683.	0.1	18
59	Design of a Large Orbit Gyrotron with a Permanent Magnet System. Journal of Infrared, Millimeter and Terahertz Waves, 2003, 24, 253-260.	0.6	17
60	Gas discharge powered by the focused beam of the high-intensive electromagnetic waves of the terahertz frequency band. Journal Physics D: Applied Physics, 2018, 51, 464002.	1.3	17
61	The Ka-band 10-kW continuous wave gyrotron with wide-band fast frequency sweep. Review of Scientific Instruments, 2012, 83, 074706.	0.6	16
62	Frequency Stabilization of a 0.67-THz Gyrotron by Self-Injection Locking. IEEE Transactions on Electron Devices, 2016, 63, 1288-1293.	1.6	16
63	A terahertz gyrotron with pulsed magnetic field. Radiophysics and Quantum Electronics, 2007, 50, 755-761.	0.1	15
64	Mode Competition in a Two-Mode Gyrotron With Delayed Reflections. IEEE Transactions on Plasma Science, 2014, 42, 2030-2036.	0.6	15
65	Improvement of Stability of High Cyclotron Harmonic Operation in the Double-Beam THz Gyrotrons. IEEE Transactions on Plasma Science, 2016, , 1-7.	0.6	15
66	A 45-GHz/20-kW Gyrotron-Based Microwave Setup for the Fourth-Generation ECR Ion Sources. IEEE Transactions on Electron Devices, 2018, 65, 3963-3969.	1.6	15
67	Development of Third-Harmonic 1.2-THz Gyrotron With Intentionally Increased Velocity Spread of Electrons. IEEE Transactions on Electron Devices, 2020, 67, 4432-4436.	1.6	15
68	Experimental study of the output radiation spectrum of a gyrotron with partial reflection of the output signal. Radiophysics and Quantum Electronics, 2000, 43, 396-399.	0.1	14
69	A pulse magnetic-field generator for terahertz gyrodevices. Instruments and Experimental Techniques, 2011, 54, 77-80.	0.1	14
70	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
71	Three-dimensional particle-in-cell modeling of terahertz gyrotrons with cylindrical and planar configurations of the interaction space. Physics of Plasmas, 2013, 20, 043103.	0.7	14
72	Mutual synchronization of weakly coupled gyrotrons. Physics of Plasmas, 2015, 22, .	0.7	14

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73	An Experimental Investigation of a 0.8 THz Double-Beam Gyrotron. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2019, 40, 1114-1128.	1.2	14
74	Investigation of the Frequency Double-Multiplication Effect in a Sub-THz Gyrotron. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020, 41, 1245-1251.	1.2	14
75	Smooth wideband tuning of the operating frequency of a gyrotron. <i>Radiophysics and Quantum Electronics</i> , 2008, 51, 57-63.	0.1	13
76	The Design of the 394.6 Ghz Continuously Tunable Coaxial Gyrotron for DNP Spectroscopy. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2008, 29, 641-648.	0.6	13
77	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.	0.1	12
78	Experimental Study of the Influence of Reflections from a Non-resonant Load on the Gyrotron Operation Regime. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020, 41, 164-170.	1.2	12
79	Gyrotron-Based Technological Systems for Material Processing – Current Status and Prospects. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020, 41, 1022-1037.	1.2	12
80	Design of master oscillator for frequency locking of a complex of megawatt level microwave sources. <i>Microwave and Optical Technology Letters</i> , 2020, 62, 2137-2143.	0.9	12
81	Numerical Analysis of Weakly Relativistic Large Orbit Gyrotron with Permanent Magnet System. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2000, 21, 1211-1221.	0.6	11
82	Modelling and simulation of gyrotrons. <i>Vacuum</i> , 2005, 77, 519-525.	1.6	11
83	Electron-Optical System of a High-Power Gyrotron with Nonadiabatic Electron Gun. <i>Radiophysics and Quantum Electronics</i> , 2005, 48, 461-465.	0.1	11
84	Separation of energy fractions of an electron beam by a localized nonuniformity of magnetic field in the collector region of gyrodevices. <i>Radiophysics and Quantum Electronics</i> , 2006, 49, 811-815.	0.1	11
85	Novel approach to the theory of longitudinally inhomogeneous lossy waveguides. , 2013, , .		11
86	Plasma density in discharge sustained in inhomogeneous gas flow by high-power radiation in the terahertz frequency range. <i>Technical Physics Letters</i> , 2017, 43, 186-189.	0.2	11
87	Control of sub-terahertz gyrotron frequency by modulation-anode voltage: Comparison of theoretical and experimental results. <i>Review of Scientific Instruments</i> , 2019, 90, 124705.	0.6	11
88	Microwave Radiation Impact on Heavy Oil Upgrading from Carbonate Deposits in the Presence of Nano-Sized Magnetite. <i>Processes</i> , 2021, 9, 2021.	1.3	11
89	Mode competition in nonstationary regimes of high-power gyrotrons. <i>Radiophysics and Quantum Electronics</i> , 1998, 41, 542-548.	0.1	10
90	Novel source of the chaotic microwave radiation based on the gyro-backward-wave oscillator. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006, 54, 2741-2744.	2.9	10

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91	A double-beam magnetron-injection gun for third-harmonic continuous wave 1-THz gyrotron. Physics of Plasmas, 2013, 20, 123303.	0.7	10
92	Effect of ion compensation of the beam space charge on gyrotron operation. Physics of Plasmas, 2015, 22, 043119.	0.7	10
93	Optimal parameters of gyrotrons with weak electron-wave interaction. Physics of Plasmas, 2016, 23, .	0.7	10
94	Low-Voltage Operation of the Double-Beam Gyrotron at 400 GHz. IEEE Transactions on Electron Devices, 2020, 67, 673-676.	1.6	10
95	Dynamics of the gas discharge in noble gases sustained by the powerful radiation of 0.67 THz gyrotron. Physics of Plasmas, 2020, 27, .	0.7	10
96	Nonstationary processes in a gyrotron with reflections from output-section inhomogeneities. Radiophysics and Quantum Electronics, 1998, 41, 1096-1100.	0.1	9
97	Design of a large orbit gyrotron with a permanent magnet system. Vacuum, 2001, 62, 133-142.	1.6	9
98	Traditional vs. advanced Bragg reflectors for oversized circular waveguide. Fusion Engineering and Design, 2017, 123, 477-480.	1.0	9
99	Narrowing of the Emission Spectrum of a Gyrotron with External Reflections. Technical Physics Letters, 2018, 44, 221-224.	0.2	9
100	Studies of continuous-wave submillimeter-wave gyrotrons for spectroscopy and diagnostics of various media. Radiophysics and Quantum Electronics, 2009, 52, 500-510.	0.1	8
101	Terahertz Gyrotrons with Unique Parameters. , 2018, , .		8
102	Breakdown of the heavy noble gases in a focused beam of powerful sub-THz gyrotron. Physics of Plasmas, 2019, 26, .	0.7	8
103	Design of a pulsed 0.5 THz gyrotron and preliminary test of its electron gun with field emitter. Infrared Physics and Technology, 2020, 111, 103480.	1.3	8
104	The Progress in the Studies of Mode Interaction in Gyrotrons. Journal of Infrared, Millimeter, and Terahertz Waves, 2022, 43, 1-47.	1.2	8
105	Simulation of a High Harmonic Gyrotron with Axis-Encircling Electron Beam and Permanent Magnet. Journal of Infrared, Millimeter and Terahertz Waves, 2002, 23, 675-692.	0.6	7
106	Generation of 5 kW/1 THz coherent radiation from pulsed magnetic field gyrotron. , 2010, , .		7
107	Relief Creation on Molybdenum Plates in Discharges Initiated by Gyrotron Radiation in Metalâ€™Dielectric Powder Mixtures. Radiophysics and Quantum Electronics, 2016, 58, 701-709.	0.1	7
108	Nonadiabatic Electron-Optical System of a Technological Gyrotron. Radiophysics and Quantum Electronics, 2017, 60, 395-400.	0.1	7

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109	On the feasibility of a pulsed gyrotron with a peak rf power exceeding the power of the operating electron beam. Applied Physics Letters, 2017, 111, .	1.5	7
110	High precision frequency stabilization of a 100W/263 GHz continuous wave gyrotron. , 2017, , .		7
111	CW Multifrequency K-Band Source Based on a Helical-Waveguide Gyro-TWT With Delayed Feedback. IEEE Transactions on Electron Devices, 2021, 68, 330-335.	1.6	7
112	Investigation of mode interaction for a gyrotron with dense mode spectrum. Journal of Electromagnetic Waves and Applications, 2021, 35, 19-26.	1.0	7
113	Experimental investigation of emission inhomogeneity of gyrotron cathodes basing on their current-voltage characteristics. Journal of Infrared, Millimeter and Terahertz Waves, 1997, 18, 2137-2146.	0.6	6
114	Imaging the output field pattern of a 110-GHz gyrotron with pulsed magnetic field using recombination continuum emitted by a slab of the Cs-Xe dc discharge. IEEE Transactions on Plasma Science, 2005, 33, 380-381.	0.6	6
115	Electron Optical System of the Sub-terahertz Coaxial Gyrotron with Continuous Frequency Tuning. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 912.	1.2	6
116	Peculiarities of Optimizing the Subsystems of a Continuous-Wave Gyrotron with a Generation Frequency of 0.26 THz at the Fundamental Cyclotron Resonance. Radiophysics and Quantum Electronics, 2016, 58, 649-659.	0.1	6
117	Glow of the Plasma of a Pulse Discharge Produced in Nitrogen by High-Power Terahertz-Wave Radiation. Radiophysics and Quantum Electronics, 2017, 60, 136-142.	0.1	6
118	Two-stage Energy Recovery System for DEMO Gyrotron. , 2018, , .		6
119	Second-Harmonic Generation of Subterahertz Gyrotron Radiation by Frequency Doubling in InP:Fe and Its Application for Magnetspectroscopy of Semiconductor Structures. Semiconductors, 2019, 53, 1217-1221.	0.2	6
120	Experimental Demonstration of the Possibility to Expand the Band of Smooth Tuning of Frequency Generation in Short-Cavity Gyrotrons. Radiophysics and Quantum Electronics, 2019, 61, 797-800.	0.1	6
121	Analysis of the Possibilities to Control Diffraction Quality Factors of the Cavities of Subterahertz Gyrotrons. IEEE Transactions on Plasma Science, 2020, 48, 4037-4040.	0.6	6
122	A Magneto-Armored Warm-Solenoid Based System for K-Band Gyrodevices. Instruments and Experimental Techniques, 2020, 63, 97-100.	0.1	6
123	3.5 kW 24 GHz Compact Gyrotron System for Microwave Processing of Materials. , 2006, , 24-30.		6
124	Widening of the Frequency Tuning Bandwidth in a Subterahertz Gyrotron with an External Bragg Reflector. Radiophysics and Quantum Electronics, 2020, 63, 363-370.	0.1	6
125	Pulsed magnetic field generation system for laser-plasma research. Review of Scientific Instruments, 2021, 92, 123506.	0.6	6
126	The influence of reflections on the stability of gyrotron autooscillations. Radiophysics and Quantum Electronics, 1998, 41, 916-922.	0.1	5



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127	Experimental study of a 110-GHz/1-MW gyrotron with a single-stage depressed collector. Radiophysics and Quantum Electronics, 1998, 41, 449-456.	0.1	5
128	Recent test results on broad-band gyro-TWT and gyro-BWO with hellically grooved operating waveguides. , 0, , .		5
129	Some opportunities to control and stabilize frequency of gyrotron. , 0, , .		5
130	Electron Optic System of Powerful Large Orbit Gyrotron with Pulse Magnetic Field. Journal of Infrared, Millimeter and Terahertz Waves, 2005, 26, 15-28.	0.6	5
131	A magnetron injection gun with extraction of reflected electrons. Technical Physics Letters, 2012, 38, 680-682.	0.2	5
132	Development of the 75-GHz planar gyrotron with transverse energy extraction. Journal of Communications Technology and Electronics, 2014, 59, 777-781.	0.2	5
133	A waveguide high-pass filter system for measuring the spectrum of pulsed terahertz sources. Infrared Physics and Technology, 2016, 76, 11-20.	1.3	5
134	Use of Quasiregular Resonator Cavities with Short Phase Correctors in Gyrotrons Operated at Higher Cyclotron Harmonics. Radiophysics and Quantum Electronics, 2017, 59, 655-666.	0.1	5
135	Imaging of spatial distributions of the millimeter wave intensity by using the Visible Continuum Radiation from a discharge in a Csâ€“Xe mixture. Part II: Demonstration of application capabilities of the technique. Plasma Physics Reports, 2017, 43, 778-791.	0.3	5
136	Magnetically shielded electronâ€™optical system of a continuous gyrotron with an operating frequency of 24 GHz. Journal of Communications Technology and Electronics, 2017, 62, 1165-1171.	0.2	5
137	Development of high power THz band gyrotrons and their applications in physical research. , 2017, , .		5
138	Development and applications of THz gyrotrons. EPJ Web of Conferences, 2017, 149, 01008.	0.1	5
139	Design and Test of 253/527 GHz Gyrotron for Spectroscopy Applications. , 2019, , .		5
140	Double-Beam Gyrotron With Frequency Multiplication. IEEE Transactions on Electron Devices, 2019, 66, 2396-2400.	1.6	5
141	Non-equilibrium Atmospheric-Pressure Plasma Torch Sustained in a Quasi-optical Beam of Subterahertz Radiation. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 711-727.	1.2	5
142	Nonlinear excitation of parasitic modes in harmonic gyrotrons. Physics of Plasmas, 2020, 27, .	0.7	5
143	Dynamics of Multimode Processes at the Leading Edge of the Accelerating-Voltage Pulse in a Gyrotron Driven by an External Signal. Radiophysics and Quantum Electronics, 2020, 63, 381-391.	0.1	5
144	Influence of the microwave-signal reflection on the generation efficiency of tunable gyrotrons. Radiophysics and Quantum Electronics, 1999, 42, 962-966.	0.1	4

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145	The energy spectrum of an electron beam after interaction with an RF field in a gyrotron. Technical Physics, 2000, 45, 1571-1574.	0.2	4
146	Gyro-TWTs and Gyro-BWOs with helically corrugated waveguides. , 2007, , .		4
147	Prospective gyro-devices for technological applications. , 2009, , .		4
148	The Influence of Initial Electron Velocities Distribution on the Energy Spectra of the Spent Electron Beam in Gyrotron. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 1109-1114.	1.2	4
149	Efficiency of gyrotrons working at the second harmonic of gyrofrequency with multistage systems for recuperation of residual electron energy. Technical Physics, 2015, 60, 757-760.	0.2	4
150	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
151	Optimization of terahertz range gyrotron self-excitation conditions by increasing the lifetime of cyclotron oscillators in low-voltage interaction space. Technical Physics Letters, 2017, 43, 110-113.	0.2	4
152	Experimental study of a THz band double-beam gyrotron. , 2017, , .		4
153	A point-like plasma, sustained by powerful radiation of terahertz gyrotrons, as a source of ultraviolet light. , 2017, , .		4
154	Influence of weak reflection from a nonresonant load on the operation frequency of the 28 GHz technological gyrotron. EPJ Web of Conferences, 2017, 149, 04037.	0.1	4
155	High rate production of nanopowders by the evaporation “ condensation method using gyrotron radiation. EPJ Web of Conferences, 2017, 149, 02022.	0.1	4
156	Development of the Prototype of High Power Sub-THz Gyrotron for Advanced Fusion Power Plant (DEMO). EPJ Web of Conferences, 2018, 195, 01008.	0.1	4
157	Status of a new 28 GHz continuous wave gasdynamic electron cyclotron resonance ion source development at IAP RAS. AIP Conference Proceedings, 2018, , .	0.3	4
158	To the Theory of Gyrotrons with Wide Emitters. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 141-151.	1.2	4
159	Terahertz-Range High-Order Cyclotron Harmonic Planar Gyrotrons with Transverse Energy Extraction. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 152-163.	1.2	4
160	Magnetron-Injection Gun with Increased Current for Frequency Tunable Medium Power Sub-THz Gyrotron. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 1488-1497.	1.2	4
161	Investigation into Microwave Absorption in Semiconductors for Frequency-Multiplication Devices and Radiation-Output Control of Continuous and Pulsed Gyrotrons. Semiconductors, 2020, 54, 1069-1074.	0.2	4
162	Study of 3D-Printed Dielectric Barrier Windows for Microwave Applications. Electronics (Switzerland), 2021, 10, 2225.	1.8	4

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163	Universal Electron Gun Design for a CW Third Harmonic Gyrotron with an Operating Frequency over 1ÅHz. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 1121-1130.	1.2	4
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