

# M Yu Glyavin

## List of Publications by Citations

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277  
papers

2,631  
citations

26  
h-index

41  
g-index

373  
ext. papers

3,283  
ext. citations

1.4  
avg, IF

5.2  
L-index

#	Paper	IF	Citations
277	Generation of 1.5-kW, 1-THz coherent radiation from a gyrotron with a pulsed magnetic field. <i>Physical Review Letters</i> , <b>2008</b> , 100, 015101	7.4	253
276	A 670 GHz gyrotron with record power and efficiency. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 153503	3.4	110
275	. <i>IEEE Transactions on Plasma Science</i> , <b>2004</b> , 32, 67-72	1.3	105
274	Review of Subterahertz and Terahertz Gyrodevices at IAP RAS and FIR FU. <i>IEEE Transactions on Plasma Science</i> , <b>2009</b> , 37, 36-43	1.3	92
273	Experimental tests of a 263 GHz gyrotron for spectroscopic applications and diagnostics of various media. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 054705	1.7	85
272	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> , <b>2015</b> , 5, 788-797	2.4	55
271	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> , <b>2014</b> , 105, 174101	3.4	54
270	A high harmonic gyrotron with an axis-encircling electron beam and a permanent magnet. <i>IEEE Transactions on Plasma Science</i> , <b>2004</b> , 32, 903-909	1.3	53
269	Terahertz Gyrotrons at IAP RAS: Status and New Designs. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2011</b> , 32, 371-379	2.2	44
268	High power terahertz sources for spectroscopy and material diagnostics. <i>Physics-Uspekhi</i> , <b>2016</b> , 59, 595-604	6.0	44
267	A novel THz-band double-beam gyrotron for high-field DNP-NMR spectroscopy. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 094708	1.7	41
266	Gyrotron Development for High Power THz Technologies at IAP RAS. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2012</b> , 33, 715-723	2.2	40
265	High-power sub-terahertz source with a record frequency stability at up to 1 Hz. <i>Scientific Reports</i> , <b>2018</b> , 8, 4317	4.9	39
264	First experimental tests of powerful 250 GHz gyrotron for future fusion research and collective Thomson scattering diagnostics. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 084702	1.7	39
263	Development of THz-range Gyrotrons for Detection of Concealed Radioactive Materials. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2011</b> , 32, 380-402	2.2	38
262	On the sensitivity of terahertz gyrotron based systems for remote detection of concealed radioactive materials. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 124912	2.5	33
261	Frequency-tunable CW gyro-BWO with a helically rippled operating waveguide. <i>IEEE Transactions on Plasma Science</i> , <b>2004</b> , 32, 884-889	1.3	32

260	Reflections Influence on the Gyrotron Oscillation Regimes. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>1998</b> , 19, 1499-1511		30
259	Terahertz gyrotrons: State of the art and prospects. <i>Journal of Communications Technology and Electronics</i> , <b>2014</b> , 59, 792-797	0.5	29
258	Experimental investigation of a 110 GHz/1 MW gyrotron with the one-step depressed collector. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>1997</b> , 18, 2129-2136		28
257	A proposal to use reflection with delay for achieving the self-modulation and stochastic regimes in millimeter-wave gyrotrons. <i>Technical Physics Letters</i> , <b>1998</b> , 24, 436-438	0.7	28
256	The Gyrotrons as Promising Radiation Sources for THz Sensing and Imaging. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 980	2.6	26
255	Experimental Study of the Pulsed Terahertz Gyrotron with Record-Breaking Power and Efficiency Parameters. <i>Radiophysics and Quantum Electronics</i> , <b>2014</b> , 56, 497-507	0.7	26
254	A one-dimensional study of the evolution of the microwave breakdown in air. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 092308	2.1	26
253	Design of a Subterahertz, Third-Harmonic, Continuous-Wave Gyrotron. <i>IEEE Transactions on Plasma Science</i> , <b>2008</b> , 36, 591-596	1.3	26
252	Gyrotron FU series – current status of development and applications. <i>Vacuum</i> , <b>2001</b> , 62, 123-132	3.7	26
251	Influence of reflections on mode competition in gyrotrons. <i>IEEE Transactions on Plasma Science</i> , <b>2000</b> , 28, 588-596	1.3	26
250	Low-voltage gyrotrons. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 033103	2.1	25
249	Stabilization of gyrotron frequency by reflection from nonresonant and resonant loads. <i>Technical Physics Letters</i> , <b>2015</b> , 41, 628-631	0.7	23
248	Molecular gas spectroscopy using radioacoustic detection and high-power coherent subterahertz radiation sources. <i>Journal of Molecular Spectroscopy</i> , <b>2017</b> , 331, 9-16	1.3	23
247	Experimental studies of gyrotron electron beam systems. <i>IEEE Transactions on Plasma Science</i> , <b>1999</b> , 27, 474-483	1.3	23
246	Application of the 263 GHz/1 kW gyrotron setup to produce a metal oxide nanopowder by the evaporation-condensation technique. <i>Vacuum</i> , <b>2017</b> , 145, 340-346	3.7	22
245	High Temperature Thermal Insulation System for Millimeter Wave Sintering of B4C. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>2005</b> , 26, 1531-1541		22
244	Frequency Tunable sub-THz Gyrotron for Direct Measurements of Positronium Hyperfine Structure. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2018</b> , 39, 975-983	2.2	21
243	Development of a Magnetic Cusp Gun for Terahertz Harmonic Gyrodevices. <i>IEEE Transactions on Electron Devices</i> , <b>2012</b> , 59, 3635-3640	2.9	21

242	Method of Providing the High Cyclotron Harmonic Operation Selectivity in a Gyrotron With a Spatially Developed Operating Mode. <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , 64, 3893-3897	2.9	19
241	Computer Simulation of Axis-Encircling Beams Generated by an Electron Gun with a Permanent Magnet System. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>2000</b> , 21, 1191-1209		19
240	Electron-optical systems for planar gyrotrons. <i>Physics of Plasmas</i> , <b>2014</b> , 21, 023106	2.1	18
239	A High-Efficiency Second-Harmonic Gyrotron with a Depressed Collector. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>2008</b> , 29, 1004-1010		18
238	Development of a high harmonic gyrotron with an axis-encircling electron beam and a permanent magnet. <i>Vacuum</i> , <b>2005</b> , 77, 539-546	3.7	18
237	Design of a Second Harmonic Double-Beam Continuous Wave Gyrotron with Operating Frequency of 0.79 THz. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2015</b> , 36, 1164-1175	2.2	17
236	Russian Gyrotrons: Achievements and Trends. <i>IEEE Journal of Microwaves</i> , <b>2021</b> , 1, 260-268		17
235	Measurement of plasma density in the discharge maintained in a nonuniform gas flow by a high-power terahertz-wave gyrotron. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 043511	2.1	16
234	Novel and Emerging Applications of the Gyrotrons Worldwide: Current Status and Prospects. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2021</b> , 42, 715-741	2.2	16
233	Millimeter-Wave Gyrotron Research System. I. Description of the Facility. <i>Radiophysics and Quantum Electronics</i> , <b>2019</b> , 61, 752-762	0.7	15
232	Gyrotron collector systems: Types and capabilities. <i>Infrared Physics and Technology</i> , <b>2018</b> , 91, 46-54	2.7	15
231	Operation of a sub-terahertz CW gyrotron with an extremely low voltage. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 113105	2.1	15
230	Breakdown simulations in a focused microwave beam within the simplified model. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 073109	2.1	15
229	Observation of extreme ultraviolet light emission from an expanding plasma jet with multiply charged argon or xenon ions. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 153502	3.4	15
228	Improvement of Stability of High Cyclotron Harmonic Operation in the Double-Beam THz Gyrotrons. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 1-7	1.3	14
227	Mode Competition in a Two-Mode Gyrotron With Delayed Reflections. <i>IEEE Transactions on Plasma Science</i> , <b>2014</b> , 42, 2030-2036	1.3	14
226	The K(a)-band 10-kW continuous wave gyrotron with wide-band fast frequency sweep. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 074706	1.7	14
225	Development of a high-power pulsed subterahertz gyrotron for remote detection of sources of ionizing radiation. <i>Radiophysics and Quantum Electronics</i> , <b>2012</b> , 54, 600-608	0.7	14

224	Frequency Stabilization in a Sub-Terahertz Gyrotron With Delayed Reflections of Output Radiation. <i>IEEE Transactions on Plasma Science</i> , <b>2018</b> , 46, 2465-2469	1.3	13
223	Gas discharge powered by the focused beam of the high-intensive electromagnetic waves of the terahertz frequency band. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 464002	3	13
222	The Discharge Maintained by High-Power Terahertz Radiation in a Nonuniform Gas Flow. <i>Radiophysics and Quantum Electronics</i> , <b>2014</b> , 56, 561-565	0.7	13
221	Three-dimensional particle-in-cell modeling of terahertz gyrotrons with cylindrical and planar configurations of the interaction space. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 043103	2.1	12
220	Demonstration of a Selective Oversized Cavity in a Terahertz Second-Harmonic Gyrotron. <i>IEEE Electron Device Letters</i> , <b>2020</b> , 41, 1412-1415	4.4	12
219	Frequency Stabilization of a 0.67-THz Gyrotron by Self-Injection Locking. <i>IEEE Transactions on Electron Devices</i> , <b>2016</b> , 63, 1288-1293	2.9	11
218	A pulse magnetic-field generator for terahertz gyrodevices. <i>Instruments and Experimental Techniques</i> , <b>2011</b> , 54, 77-80	0.5	11
217	A terahertz gyrotron with pulsed magnetic field. <i>Radiophysics and Quantum Electronics</i> , <b>2007</b> , 50, 755-760	0.7	11
216	Smooth wideband tuning of the operating frequency of a gyrotron. <i>Radiophysics and Quantum Electronics</i> , <b>2008</b> , 51, 57-63	0.7	11
215	Design of a Large Orbit Gyrotron with a Permanent Magnet System. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>2003</b> , 24, 253-260		11
214	Technological gyrotron with low accelerating voltage. <i>Radiophysics and Quantum Electronics</i> , <b>2005</b> , 48, 741-747	0.7	11
213	Experimental study of the output radiation spectrum of a gyrotron with partial reflection of the output signal. <i>Radiophysics and Quantum Electronics</i> , <b>2000</b> , 43, 396-399	0.7	11
212	Gyrotron Frequency Stabilization by a Weak Reflected Wave. <i>Radiophysics and Quantum Electronics</i> , <b>2016</b> , 58, 673-683	0.7	11
211	Plasma density in discharge sustained in inhomogeneous gas flow by high-power radiation in the terahertz frequency range. <i>Technical Physics Letters</i> , <b>2017</b> , 43, 186-189	0.7	10
210	The concept of an electron-optical system with field emitter for a spectroscopic gyrotron. <i>Infrared Physics and Technology</i> , <b>2016</b> , 78, 185-189	2.7	10
209	The Design of the 394.6 Ghz Continuously Tunable Coaxial Gyrotron for DNP Spectroscopy. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>2008</b> , 29, 641-648		10
208	Modelling and simulation of gyrotrons. <i>Vacuum</i> , <b>2005</b> , 77, 519-525	3.7	10
207	Effect of ion compensation of the beam space charge on gyrotron operation. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 043119	2.1	9

206	Sub-Terahertz High-Sensitivity High-Resolution Molecular Spectroscopy With a Gyrotron. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2020</b> , 10, 502-512	3.4	9
205	Novel approach to the theory of longitudinally inhomogeneous lossy waveguides <b>2013</b> ,		9
204	Numerical Analysis of Weakly Relativistic Large Orbit Gyrotron with Permanent Magnet System. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>2000</b> , 21, 1211-1221		9
203	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> , <b>2016</b> , 58, 639-648	0.7	9
202	Control of sub-terahertz gyrotron frequency by modulation-anode voltage: Comparison of theoretical and experimental results. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 124705	1.7	9
201	The Role of Nanodispersed Catalysts in Microwave Application during the Development of Unconventional Hydrocarbon Reserves: A Review of Potential Applications. <i>Processes</i> , <b>2021</b> , 9, 420	2.9	9
200	A double-beam magnetron-injection gun for third-harmonic continuous wave 1-THz gyrotron. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 123303	2.1	8
199	Mode competition in nonstationary regimes of high-power gyrotrons. <i>Radiophysics and Quantum Electronics</i> , <b>1998</b> , 41, 542-548	0.7	8
198	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> , <b>2006</b> , 49, 811-815	0.7	8
197	Development of Third-Harmonic 1.2-THz Gyrotron With Intentionally Increased Velocity Spread of Electrons. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 4432-4436	2.9	8
196	Traditional vs. advanced Bragg reflectors for oversized circular waveguide. <i>Fusion Engineering and Design</i> , <b>2017</b> , 123, 477-480	1.7	7
195	A 45-GHz/20-kW Gyrotron-Based Microwave Setup for the Fourth-Generation ECR Ion Sources. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 3963-3969	2.9	7
194	An Experimental Investigation of a 0.8 THz Double-Beam Gyrotron. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2019</b> , 40, 1114-1128	2.2	7
193	Studies of continuous-wave submillimeter-wave gyrotrons for spectroscopy and diagnostics of various media. <i>Radiophysics and Quantum Electronics</i> , <b>2009</b> , 52, 500-510	0.7	7
192	Simulation of a High Harmonic Gyrotron with Axis-Encircling Electron Beam and Permanent Magnet. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>2002</b> , 23, 675-692		7
191	Electron-Optical System of a High-Power Gyrotron with Nonadiabatic Electron Gun. <i>Radiophysics and Quantum Electronics</i> , <b>2005</b> , 48, 461-465	0.7	7
190	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> , <b>2020</b> , 41, 164-170	2.2	7
189	High precision frequency stabilization of a 100W/263 GHz continuous wave gyrotron <b>2017</b> ,		6

188	Narrowing of the Emission Spectrum of a Gyrotron with External Reflections. <i>Technical Physics Letters</i> , <b>2018</b> , 44, 221-224	0.7	6
187	Breakdown of the heavy noble gases in a focused beam of powerful sub-THz gyrotron. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 083510	2.1	6
186	Mutual synchronization of weakly coupled gyrotrons. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 093118	2.1	6
185	Electron Optical System of the Sub-terahertz Coaxial Gyrotron with Continuous Frequency Tuning. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2010</b> , 31, 912	2.2	6
184	Design of a large orbit gyrotron with a permanent magnet system. <i>Vacuum</i> , <b>2001</b> , 62, 133-142	3.7	6
183	Dynamics of the gas discharge in noble gases sustained by the powerful radiation of 0.67 THz gyrotron. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 093509	2.1	6
182	Use of Quasiregular Resonator Cavities with Short Phase Correctors in Gyrotrons Operated at Higher Cyclotron Harmonics. <i>Radiophysics and Quantum Electronics</i> , <b>2017</b> , 59, 655-666	0.7	5
181	Nonlinear excitation of parasitic modes in harmonic gyrotrons. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 063304	2.1	5
180	Gyrotron-Based Technological Systems for Material Processing—Current Status and Prospects. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2020</b> , 41, 1022-1037	2.2	5
179	Investigation of the Frequency Double-Multiplication Effect in a Sub-THz Gyrotron. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2020</b> , 41, 1245-1251	2.2	5
178	Design of master oscillator for frequency locking of a complex of megawatt level microwave sources. <i>Microwave and Optical Technology Letters</i> , <b>2020</b> , 62, 2137-2143	1.2	5
177	Glow of the Plasma of a Pulse Discharge Produced in Nitrogen by High-Power Terahertz-Wave Radiation. <i>Radiophysics and Quantum Electronics</i> , <b>2017</b> , 60, 136-142	0.7	5
176	Nonadiabatic Electron-Optical System of a Technological Gyrotron. <i>Radiophysics and Quantum Electronics</i> , <b>2017</b> , 60, 395-400	0.7	5
175	Experimental investigation of emission inhomogeneity of gyrotron cathodes basing on their current-voltage characteristics. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>1997</b> , 18, 2137-2146		5
174	Experimental study of a 110-GHz/1-MW gyrotron with a single-stage depressed collector. <i>Radiophysics and Quantum Electronics</i> , <b>1998</b> , 41, 449-456	0.7	5
173	Novel source of the chaotic microwave radiation based on the gyro-backward-wave oscillator. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2006</b> , 54, 2741-2744	4.1	5
172	Some opportunities to control and stabilize frequency of gyrotron		5
171	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. <i>IEEE Transactions on Plasma Science</i> , <b>2005</b> , 33, 380-381	1.3	5

170	. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 673-676	2.9	5
169	Optimal parameters of gyrotrons with weak electron-wave interaction. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 093108	0.7	5
168	Relief Creation on Molybdenum Plates in Discharges Initiated by Gyrotron Radiation in Metal-Dielectric Powder Mixtures. <i>Radiophysics and Quantum Electronics</i> , <b>2016</b> , 58, 701-709	0.7	5
167	Terahertz Gyrotrons with Unique Parameters <b>2018</b> ,		5
166	Optimization of terahertz range gyrotron self-excitation conditions by increasing the lifetime of cyclotron oscillators in low-voltage interaction space. <i>Technical Physics Letters</i> , <b>2017</b> , 43, 110-113	0.7	4
165	Second-Harmonic Generation of Subterahertz Gyrotron Radiation by Frequency Doubling in InP:Fe and Its Application for Magneto-spectroscopy of Semiconductor Structures. <i>Semiconductors</i> , <b>2019</b> , 53, 1217-1221	0.7	4
164	Experimental Demonstration of the Possibility to Expand the Band of Smooth Tuning of Frequency Generation in Short-Cavity Gyrotrons. <i>Radiophysics and Quantum Electronics</i> , <b>2019</b> , 61, 797-800	0.7	4
163	Double-Beam Gyrotron With Frequency Multiplication. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 2396-2400	2.9	4
162	Study of a Stationary Breakdown Wave Under the Conditions of Noticeable Reflection of the Incident Electromagnetic Wave from a Gas-Discharge Plasma. <i>Radiophysics and Quantum Electronics</i> , <b>2015</b> , 58, 327-338	0.7	4
161	Design and Test of 253/527 GHz Gyrotron for Spectroscopy Applications <b>2019</b> ,		4
160	Development of the 75-GHz planar gyrotron with transverse energy extraction. <i>Journal of Communications Technology and Electronics</i> , <b>2014</b> , 59, 777-781	0.5	4
159	Imaging of spatial distributions of the millimeter wave intensity by using the Visible Continuum Radiation from a discharge in a CsXe mixture. Part II: Demonstration of application capabilities of the technique. <i>Plasma Physics Reports</i> , <b>2017</b> , 43, 778-791	1.2	4
158	Experimental study of a THz band double-beam gyrotron <b>2017</b> ,		4
157	Development of high power THz band gyrotrons and their applications in physical research <b>2017</b> ,		4
156	Prospective gyro-devices for technological applications <b>2009</b> ,		4
155	The Influence of Initial Electron Velocities Distribution on the Energy Spectra of the Spent Electron Beam in Gyrotron. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2010</b> , 31, 1109-1114	2.2	4
154	The influence of reflections on the stability of gyrotron autooscillations. <i>Radiophysics and Quantum Electronics</i> , <b>1998</b> , 41, 916-922	0.7	4
153	Electron Optic System of Powerful Large Orbit Gyrotron with Pulse Magnetic Field. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>2005</b> , 26, 15-28		4

152	Analysis of the Possibilities to Control Diffraction Quality Factors of the Cavities of Subterahertz Gyrotrons. <i>IEEE Transactions on Plasma Science</i> , <b>2020</b> , 48, 4037-4040	1.3	4
151	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> , <b>2016</b> , 58, 649-659	0.7	4
150	A 250-Watts, 0.5-THz continuous-wave second-harmonic gyrotron. <i>IEEE Electron Device Letters</i> , <b>2021</b> , 1-1	4.4	4
149	Development of the Prototype of High Power Sub-THz Gyrotron for Advanced Fusion Power Plant (DEMO). <i>EPJ Web of Conferences</i> , <b>2018</b> , 195, 01008	0.3	4
148	Suppression of the Oscillatory Modes of a Space Charge in the Magnetron Injection Guns of Technological Gyrotrons. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2015</b> , 36, 7-12	2.2	3
147	A Magneto-Armored Warm-Solenoid Based System for K-Band Gyrodevices. <i>Instruments and Experimental Techniques</i> , <b>2020</b> , 63, 97-100	0.5	3
146	Development and applications of THz gyrotrons. <i>EPJ Web of Conferences</i> , <b>2017</b> , 149, 01008	0.3	3
145	45 GHz/20 kW gyrotron-based system for ECR ION source <b>2016</b> ,		3
144	Multiparametric gyrotron power control during microwave processing of materials. <i>Technical Physics Letters</i> , <b>2013</b> , 39, 140-142	0.7	3
143	Magnetically shielded electronoptical system of a continuous gyrotron with an operating frequency of 24 GHz. <i>Journal of Communications Technology and Electronics</i> , <b>2017</b> , 62, 1165-1171	0.5	3
142	On the feasibility of a pulsed gyrotron with a peak rf power exceeding the power of the operating electron beam. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 073504	3.4	3
141	Influence of weak reflection from a nonresonant load on the operation frequency of the 28 GHz technological gyrotron. <i>EPJ Web of Conferences</i> , <b>2017</b> , 149, 04037	0.3	3
140	Nonparaxial magnetron injection gun for a high-power pulsed submillimeter-wave gyrotron. <i>Radiophysics and Quantum Electronics</i> , <b>2009</b> , 52, 150-156	0.7	3
139	Numerical simulation of high-power continuous-wave gyrotrons operated in the short-wavelength part of the millimeter-wave range. <i>Radiophysics and Quantum Electronics</i> , <b>2009</b> , 52, 370-378	0.7	3
138	Efficiency enhancement of gyrotron based setups for materials processing <b>2009</b> ,		3
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132	Numerical simulation of transient processes in a 170 GHz/1 MW gyrotron for ITER. <i>Radiophysics and Quantum Electronics</i> , <b>1996</b> , 39, 788-792	0.7	3
131	Microwave Radiation Impact on Heavy Oil Upgrading from Carbonate Deposits in the Presence of Nano-Sized Magnetite. <i>Processes</i> , <b>2021</b> , 9, 2021	2.9	3
130	3.5 kW 24 GHz Compact Gyrotron System for Microwave Processing of Materials <b>2006</b> , 24-30		3
129	Universal Electron Gun Design for a CW Third Harmonic Gyrotron with an Operating Frequency over 1 THz. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2020</b> , 41, 1121-1130	2.2	3
128	Experimental Demonstration of Gyrotron Frequency Stabilization by Resonant Reflection. <i>IEEE Electron Device Letters</i> , <b>2021</b> , 42, 1077-1080	4.4	3
127	Development and preliminary tests of a second harmonic double-beam continuous wave gyrotron with operating frequency of 0.79 THz <b>2016</b> ,		3
126	Pulsed Gyrotron Start-up Scenario in Presence of Voltage/Current Surge Front <b>2019</b> ,		3
125	CW Multifrequency K-Band Source Based on a Helical-Waveguide Gyro-TWT With Delayed Feedback. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 330-335	2.9	3
124	Investigation of mode interaction for a gyrotron with dense mode spectrum. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2021</b> , 35, 19-26	1.3	3
123	Experimental investigation of powerful THz gyrotrons for initiation of localized gas discharge <b>2015</b> ,		2
122	Design of a pulsed 0.5 THz gyrotron and preliminary test of its electron gun with field emitter. <i>Infrared Physics and Technology</i> , <b>2020</b> , 111, 103480	2.7	2
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119	High rate production of nanopowders by the evaporation & condensation method using gyrotron radiation. <i>EPJ Web of Conferences</i> , <b>2017</b> , 149, 02022	0.3	2
118	Development of advanced electron optical systems for novel gyrotrons. <i>EPJ Web of Conferences</i> , <b>2017</b> , 149, 04004	0.3	2
117	A waveguide high-pass filter system for measuring the spectrum of pulsed terahertz sources. <i>Infrared Physics and Technology</i> , <b>2016</b> , 76, 11-20	2.7	2

116	Synthesis of Current-Voltage Characteristics of 670 GHz Gyrotron Magnetron Injection Gun and Calculation of the Helical Electron Beam Parameters at the Leading Edge of a High-Voltage Pulse. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2013</b> , 34, 119-126	2.2	2
115	A point-like plasma, sustained by powerful radiation of terahertz gyrotrons, as a source of ultraviolet light <b>2017</b> ,		2
114	High precision frequency stabilization of a 263 GHz continuous wave gyrotron. <i>EPJ Web of Conferences</i> , <b>2017</b> , 149, 04022	0.3	2
113	Development of high-efficient gyrotron based complex for industrial applications. <i>EPJ Web of Conferences</i> , <b>2017</b> , 149, 04034	0.3	2
112	Frequency stabilization of a 0.67 THz gyrotron by delayed reflection <b>2015</b> ,		2
111	Efficiency of gyrotrons working at the second harmonic of gyrofrequency with multistage systems for recuperation of residual electron energy. <i>Technical Physics</i> , <b>2015</b> , 60, 757-760	0.5	2
110	A magnetron injection gun with extraction of reflected electrons. <i>Technical Physics Letters</i> , <b>2012</b> , 38, 680-682	0.7	2
109	The multi-mode gyrotron. <i>Physics of Plasmas</i> , <b>2011</b> , 18, 104502	2.1	2
108	Generation of 5 kW/1 THz coherent radiation from pulsed magnetic field gyrotron <b>2010</b> ,		2
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105	Gyro-TWTs and Gyro-BWOs with helically corrugated waveguides <b>2007</b> ,		2
104	Influence of Voltage Fluctuations on Gyrotron Efficiency and Stability. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>2003</b> , 24, 409-418		2
103	Influence of the microwave-signal reflection on the generation efficiency of tunable gyrotrons. <i>Radiophysics and Quantum Electronics</i> , <b>1999</b> , 42, 962-966	0.7	2
102	Two-Stage Energy Recovery System for THz band Double-Beam Gyrotron <b>2018</b> ,		2
101	Development and experimental tests of 250W/526 GHz/CW second harmonic gyrotron <b>2021</b> ,		2
100	A Thermal Study on Peat Oxidation Behavior in the Presence of an Iron-Based Catalyst. <i>Catalysts</i> , <b>2021</b> , 11, 1344	4	2
99	Terahertz-Range High-Order Cyclotron Harmonic Planar Gyrotrons with Transverse Energy Extraction. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2020</b> , 41, 152-163	2.2	2

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92	Status of a new 28 GHz continuous wave gasdynamic electron cyclotron resonance ion source development at IAP RAS <b>2018</b> ,		2
91	1.2 THz Second Harmonic Gyrotron with Selective Groove <b>2019</b> ,		1
90	The Fast Controller of a Gyrotron Anode Voltage. <i>Instruments and Experimental Techniques</i> , <b>2020</b> , 63, 830-834	0.5	1
89	Non-equilibrium Atmospheric-Pressure Plasma Torch Sustained in a Quasi-optical Beam of Subterahertz Radiation. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2020</b> , 41, 711-727	2.2	1
88	On applicability of absorbing rectilinear electron beams in high-frequency gyrotrons operating at cyclotron harmonics. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 064501	2.1	1
87	Development of field emitter non-adiabatic electron optic system for the spectroscopic 263 GHz/CW gyrotron. <i>EPJ Web of Conferences</i> , <b>2017</b> , 149, 04036	0.3	1
86	45GHz/20kW gyrotron setup with automated output power control for ECR ion source. <i>EPJ Web of Conferences</i> , <b>2017</b> , 149, 04032	0.3	1
85	Initial Stage of the Microwave Ionization Wave Within a 1D Model. <i>Radiophysics and Quantum Electronics</i> , <b>2016</b> , 58, 905-913	0.7	1
84	Towards future THz band gyrotron development and applications: results, trends and aims <b>2019</b> ,		1
83	Third harmonic CW gyrotron with operating frequency 1.2 THz for a DNP /NMA spectroscopy <b>2019</b> ,		1
82	A magnetron injection gun with a reduced filament temperature and elongated cathode lifetime. <i>Technical Physics Letters</i> , <b>2013</b> , 39, 1068-1070	0.7	1
81	45GHz/20kW gyrotron-based microwave generator for ECR ion source <b>2017</b> ,		1

80	Efficient approaches in synthesis and design of multi-mode units for mm and THz devices <b>2017</b> ,		1
79	Gas breakdown by a focused beam of CW THz radiation <b>2017</b> ,		1
78	High-temperature microwave pyrolysis of peat as a method to obtaining liquid and gaseous fuels. <i>EPJ Web of Conferences</i> , <b>2017</b> , 149, 02023	0.3	1
77	Improving frequency stability of a 0.67 THz gyrotron by delayed reflection <b>2015</b> ,		1
76	Experimental program to test a high-power, 670 GHz gyrotron, and its applicability to the remote detection of concealed radioactive materials <b>2012</b> ,		1
75	Experimental studies of the electron-optical system of a low-voltage gyrotron with a nonadiabatic electron gun. <i>Radiophysics and Quantum Electronics</i> , <b>2012</b> , 54, 622-626	0.7	1
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73	Experimental investigation of powerful 0.67 THz gyrotron with a pulsed solenoid for remote detection of concealed radioactive materials <b>2012</b> ,		1
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71	Generation of kW level THz radiation by the gyrotron with pulsed magnetic field <b>2008</b> ,		1
70	Design of Gyrotron FU CW VI for 600 MHz DNP-NMR experiment <b>2008</b> ,		1
69	High efficient gyrotron-based systems for technological applications <b>2008</b> ,		1
68	Imaging the Output Field Pattern of Short Millimeter Wave Sources Using Visible Continuum Emitted by the Cs-Xe DC Discharge <b>2006</b> ,		1
67	High Efficient Gyrotron-Based Systems for Materials Processing <b>2007</b> ,		1
66	The Experimental Tests of THz Range Gyrotron with Pulsed Magnetic Field <b>2007</b> ,		1
65	Sintering of high-quality ceramics using a compact gyrotron system		1
64	Ceramics sintering using a 24 GHz gyrotron system		1
63	BORON CARBIDE CERAMICS SINTERING BY USING 24 GHz COMPACT GYROTRON <b>2005</b> , 155-158		1

62	Novel source of the chaotic microwave radiation based on the gyrotron backward-wave oscillator <b>2005</b> ,		1
61	Microwave Setup of a Megawatt Power Level for the ECR Plasma Heating and Current Drive System of the T-15MD Tokamak. <i>Radiophysics and Quantum Electronics</i> , <b>2020</b> , 63, 332-344	0.7	1
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58	Dynamics of Multimode Processes at the Leading Edge of the Accelerating-Voltage Pulse in a Gyrotron Driven by an External Signal. <i>Radiophysics and Quantum Electronics</i> , <b>2020</b> , 63, 381-391	0.7	1
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56	Pulsed magnetic field generation system for laser-plasma research.. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 123506	1.7	1
55	High power terahertz sources for spectroscopy and material diagnostics. <i>Uspekhi Fizicheskikh Nauk</i> , <b>2016</b> , 186, 667-677	0.5	1
54	An estimation of high-power sub-THz gyrotron based system for space debris detection and Moon scanning <b>2021</b> ,		1
53	THz gas discharge in nitrogen as a source of ultraviolet radiation. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1697, 012213	0.3	1
52	To the Theory of Gyrotrons with Wide Emitters. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2020</b> , 41, 141-151	2.2	1
51	Magnetron-Injection Gun with Increased Current for Frequency Tunable Medium Power Sub-THz Gyrotron. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2020</b> , 41, 1488-1497	2.2	1
50	Experimental Study of Multi-Mode Dynamics of THz-Band Pulsed Magnetic Field Gyrotron. <i>IEEE Electron Device Letters</i> , <b>2020</b> , 41, 1576-1579	4.4	1
49	Development of gyro-devices at IAP/GYCOM in the range from gigahertz to terahertz <b>2016</b> ,		1
48	Prospects of realization of powerful sub-millimeter relativistic cyclotron masers <b>2016</b> ,		1
47	Recent Progress in K-band Technological Gyrotrons Development <b>2019</b> ,		1
46	Dynamics of a Sub-terahertz Discharge in the Heavy Noble Gases Produced by a High-density Radiation Field <b>2019</b> ,		1
45	Pulsed magnets with high field intensity for laser-plasma experiments and TDS spectroscopy. <i>EPJ Web of Conferences</i> , <b>2018</b> , 195, 06006	0.3	1

44	High-harmonic gyrotrons with irregular microwave systems. <i>EPJ Web of Conferences</i> , <b>2018</b> , 195, 01015	0.3	1
43	Doubling of gyrotron radiation frequency due to nonlinear susceptibility in A3B5 semiconductors. <i>EPJ Web of Conferences</i> , <b>2018</b> , 195, 02010	0.3	1
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40	Parameters of a CW Plasma Torch of Atmospheric Pressure Sustained by Focused Sub-Terahertz Gyrotron Radiation <b>2018</b> ,		1
39	Two-stage Energy Recovery System for DEMO Gyrotron <b>2018</b> ,		1
38	Study of 3D-Printed Dielectric Barrier Windows for Microwave Applications. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 2225	2.6	1
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34	The Progress in the Studies of Mode Interaction in Gyrotrons. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2022</b> , 43, 1-47	2.2	1
33	Realization of an Octave Frequency Step-Tuning of Sub-terahertz Gyrotron for Advanced Fusion Research. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2021</b> , 42, 1131	2.2	1
32	Frequency-Tunable Second Harmonic Gyrotron With Selective Cavity: Design and Simulations. <i>IEEE Transactions on Electron Devices</i> , <b>2022</b> , 1-7	2.9	0
31	Widening of the Frequency Tuning Bandwidth in a Subterahertz Gyrotron with an External Bragg Reflector. <i>Radiophysics and Quantum Electronics</i> , <b>2020</b> , 63, 363-370	0.7	0
30	Atmospheric Propagation Studies and Development of New Instrumentation for Astronomy, Radar, and Telecommunication Applications in the Subterahertz Frequency Range. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 5670	2.6	0
29	Light emission properties of a discharge induced in a gas flow by terahertz waves in the vacuum and extreme ultraviolet range. <i>EPJ Web of Conferences</i> , <b>2017</b> , 149, 02032	0.3	
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25	Electrokinetic and Biochemical Changes in Erythrocytes under the Action of Terahertz Range Electromagnetic Waves. <i>Biophysics (Russian Federation)</i> , <b>2017</b> , 62, 914-918	0.7
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18	Multistage Depressed Collector with Azimuthal Magnetic Field for the DEMO Prototype Gyrotron. <i>Springer Proceedings in Physics</i> , <b>2021</b> , 11-17	0.2
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11	Electron-optics systems with decreased life-time of trapped electrons for terahertz gyrotrons. <i>EPJ Web of Conferences</i> , <b>2018</b> , 195, 01007	0.3
10	The project of third harmonic medium power W-band gyrotron. <i>EPJ Web of Conferences</i> , <b>2018</b> , 195, 01024	0.3
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8	Gyrotrons with Shortened Cavities as Tunable Sources of Powerful Sub-Terahertz Radiation for Spectroscopic Applications. <i>EPJ Web of Conferences</i> , <b>2018</b> , 195, 01012	0.3
7	Two-beam gyrotron with frequency multiplication. <i>EPJ Web of Conferences</i> , <b>2018</b> , 187, 01002	0.3
6	Design and Experimental Test Of 250 GHz/300 kW/CW Gyrotron. <i>EPJ Web of Conferences</i> , <b>2018</b> , 187, 01006	0.3
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3	Investigation of Mode Interaction in Harmonic Sub-THz Gyrotron. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2021</b> , 42, 843	2.2
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