

M Yu Glyavin

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6174530/m-yu-glyavin-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Imaging of a High-Power Millimeter Wave Beam Using a Millimeter Wave-Induced Gas Breakdown Initiated by a Metal-Dielectric Screen. <i>IEEE Transactions on Plasma Science</i> , 2022 , 1-8 | 1.3 | |
| 276 | Frequency-Tunable Second Harmonic Gyrotron With Selective Cavity: Design and Simulations. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-7 | 2.9 | 0 |
| 275 | Phase-Locking of Second-Harmonic Gyrotrons for Providing MW-Level Output Power. <i>IEEE Transactions on Electron Devices</i> , 2022 , 69, 754-758 | 2.9 | |
| 274 | The Progress in the Studies of Mode Interaction in Gyrotrons. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2022 , 43, 1-47 | 2.2 | 1 |
| 273 | Possible designs of mobile cryomagnets for novel microwave technologies. <i>IEEE Transactions on Applied Superconductivity</i> , 2022 , 1-1 | 1.8 | |
| 272 | Atmospheric Propagation Studies and Development of New Instrumentation for Astronomy, Radar, and Telecommunication Applications in the Subterahertz Frequency Range. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 5670 | 2.6 | 0 |
| 271 | Trajectory Analysis in a Collector with Multistage Energy Recovery for a DEMO Prototype Gyrotron. Part II. Toroidal Magnetic Field. <i>Technical Physics</i> , 2021 , 66, 992 | 0.5 | |
| 270 | Generation of Terahertz Radiation in InP:Fe Crystals Due to Second-Order Lattice Nonlinearity. <i>Semiconductors</i> , 2021 , 55, 785 | 0.7 | |
| 269 | Development and experimental tests of 250W/526 GHz/CW second harmonic gyrotron 2021 , | | 2 |
| 268 | Multistage Depressed Collector with Azimuthal Magnetic Field for the DEMO Prototype Gyrotron. <i>Springer Proceedings in Physics</i> , 2021 , 11-17 | 0.2 | |
| 267 | A Thermal Study on Peat Oxidation Behavior in the Presence of an Iron-Based Catalyst. <i>Catalysts</i> , 2021 , 11, 1344 | 4 | 2 |
| 266 | Microwave Radiation Impact on Heavy Oil Upgrading from Carbonate Deposits in the Presence of Nano-Sized Magnetite. <i>Processes</i> , 2021 , 9, 2021 | 2.9 | 3 |
| 265 | Pulsed magnetic field generation system for laser-plasma research.. <i>Review of Scientific Instruments</i> , 2021 , 92, 123506 | 1.7 | 1 |
| 264 | An estimation of high-power sub-THz gyrotron based system for space debris detection and Moon scanning 2021 , | | 1 |
| 263 | Automodulation instability in gyrotrons operating at the second cyclotron harmonic. <i>Physics of Plasmas</i> , 2021 , 28, 043303 | 2.1 | |
| 262 | Increase of Gyrotron Output Power at High-Order Axial Mode Through an After-Cavity Excitation of the Next Transverse Mode. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2021 , 42, 684-700 | 2.2 | |
| 261 | Experimental Demonstration of Gyrotron Frequency Stabilization by Resonant Reflection. <i>IEEE Electron Device Letters</i> , 2021 , 42, 1077-1080 | 4.4 | 3 |

| | | | |
|-----|---|-----|----|
| 260 | CW Multifrequency K-Band Source Based on a Helical-Waveguide Gyro-TWT With Delayed Feedback. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 330-335 | 2.9 | 3 |
| 259 | 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 |
| 258 | A 250-Watts, 0.5-THz continuous-wave second-harmonic gyrotron. <i>IEEE Electron Device Letters</i> , 2021 , 1-1 | 4.4 | 4 |
| 257 | The Role of Nanodispersed Catalysts in Microwave Application during the Development of Unconventional Hydrocarbon Reserves: A Review of Potential Applications. <i>Processes</i> , 2021 , 9, 420 | 2.9 | 9 |
| 256 | 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 | 2.2 | 16 |
| 255 | Study of 3D-Printed Dielectric Barrier Windows for Microwave Applications. <i>Electronics (Switzerland)</i> , 2021 , 10, 2225 | 2.6 | 1 |
| 254 | Investigation of Mode Interaction in Harmonic Sub-THz Gyrotron. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2021 , 42, 843 | 2.2 | |
| 253 | Russian Gyrotrons: Achievements and Trends. <i>IEEE Journal of Microwaves</i> , 2021 , 1, 260-268 | | 17 |
| 252 | Trajectory Analysis in a Collector with Multistage Energy Recovery for a DEMO Prototype Gyrotron. Part I. Idealized Magnetic Field Distribution. <i>Technical Physics</i> , 2021 , 66, 118-123 | 0.5 | 1 |
| 251 | An Experimental Study of the Influence of the Longitudinal Magnetic-Field Distribution Profile on the Output Characteristics of a Gyrotron. <i>Instruments and Experimental Techniques</i> , 2021 , 64, 97-101 | 0.5 | 1 |
| 250 | Multifrequency Radiation at the Kilowatt Power Level in a Continuous Helical Gyroresonance K-Band Backward Wave Oscillator with External Reflections. <i>Technical Physics Letters</i> , 2021 , 47, 309-312 | 0.7 | 1 |
| 249 | Gas discharge sustained by powerful THz and sub-THz gyrotrons in the mixtures of noble gases with nitrogen. <i>Journal of Physics: Conference Series</i> , 2021 , 2103, 012211 | 0.3 | |
| 248 | Realization of an Octave Frequency Step-Tuning of Sub-terahertz Gyrotron for Advanced Fusion Research. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2021 , 42, 1131 | 2.2 | 1 |
| 247 | Design of a pulsed 0.5 THz gyrotron and preliminary test of its electron gun with field emitter. <i>Infrared Physics and Technology</i> , 2020 , 111, 103480 | 2.7 | 2 |
| 246 | The Fast Controller of a Gyrotron Anode Voltage. <i>Instruments and Experimental Techniques</i> , 2020 , 63, 830-834 | 0.5 | 1 |
| 245 | Non-equilibrium Atmospheric-Pressure Plasma Torch Sustained in a Quasi-optical Beam of Subterahertz Radiation. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020 , 41, 711-727 | 2.2 | 1 |
| 244 | On applicability of absorbing rectilinear electron beams in high-frequency gyrotrons operating at cyclotron harmonics. <i>Physics of Plasmas</i> , 2020 , 27, 064501 | 2.1 | 1 |
| 243 | A Magneto-Armored Warm-Solenoid Based System for K-Band Gyrodevices. <i>Instruments and Experimental Techniques</i> , 2020 , 63, 97-100 | 0.5 | 3 |

| | | | |
|-----|---|-----|----|
| 242 | Nonlinear excitation of parasitic modes in harmonic gyrotrons. <i>Physics of Plasmas</i> , 2020 , 27, 063304 | 2.1 | 5 |
| 241 | Gyrotron-Based Technological Systems for Material Processing—Current Status and Prospects. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020 , 41, 1022-1037 | 2.2 | 5 |
| 240 | 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 | 2.2 | 5 |
| 239 | The Gyrotrons as Promising Radiation Sources for THz Sensing and Imaging. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 980 | 2.6 | 26 |
| 238 | 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 | 1.2 | 5 |
| 237 | Sub-Terahertz High-Sensitivity High-Resolution Molecular Spectroscopy With a Gyrotron. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2020 , 10, 502-512 | 3.4 | 9 |
| 236 | 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> , 2020 , 63, 332-344 | 0.7 | 1 |
| 235 | The Concept of a Gyrotron with Megawatt Output at Both First and Second Cyclotron Harmonics for Plasma Heating in Spherical Tokamaks. <i>Radiophysics and Quantum Electronics</i> , 2020 , 63, 345-353 | 0.7 | 1 |
| 234 | Widening of the Frequency Tuning Bandwidth in a Subterahertz Gyrotron with an External Bragg Reflector. <i>Radiophysics and Quantum Electronics</i> , 2020 , 63, 363-370 | 0.7 | 0 |
| 233 | Resonant Reflectors for Experimental Studies of the Reflected-Signal Influence on the Gyrotron Operation Regimes. <i>Radiophysics and Quantum Electronics</i> , 2020 , 63, 371-380 | 0.7 | 1 |
| 232 | 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> , 2020 , 63, 381-391 | 0.7 | 1 |
| 231 | Optimization of Collector Systems of Technological Gyrotrons with Shielded Magnetic Systems. <i>Radiophysics and Quantum Electronics</i> , 2020 , 63, 413-421 | 0.7 | 1 |
| 230 | THz gas discharge in nitrogen as a source of ultraviolet radiation. <i>Journal of Physics: Conference Series</i> , 2020 , 1697, 012213 | 0.3 | 1 |
| 229 | 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> , 2020 , 41, 1121-1130 | 2.2 | 3 |
| 228 | . <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 673-676 | 2.9 | 5 |
| 227 | 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 | 2.2 | 7 |
| 226 | To the Theory of Gyrotrons with Wide Emitters. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020 , 41, 141-151 | 2.2 | 1 |
| 225 | Terahertz-Range High-Order Cyclotron Harmonic Planar Gyrotrons with Transverse Energy Extraction. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020 , 41, 152-163 | 2.2 | 2 |

| | | | |
|-----|--|-----|----|
| 224 | Analysis of the Possibilities to Control Diffraction Quality Factors of the Cavities of Subterahertz Gyrotrons. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 4037-4040 | 1.3 | 4 |
| 223 | Magnetron-Injection Gun with Increased Current for Frequency Tunable Medium Power Sub-THz Gyrotron. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020 , 41, 1488-1497 | 2.2 | 1 |
| 222 | Demonstration of a Selective Oversized Cavity in a Terahertz Second-Harmonic Gyrotron. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1412-1415 | 4.4 | 12 |
| 221 | Development of Third-Harmonic 1.2-THz Gyrotron With Intentionally Increased Velocity Spread of Electrons. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 4432-4436 | 2.9 | 8 |
| 220 | Dynamics of the gas discharge in noble gases sustained by the powerful radiation of 0.67 THz gyrotron. <i>Physics of Plasmas</i> , 2020 , 27, 093509 | 2.1 | 6 |
| 219 | Editorial Introduction to the Special Issue: THz Summer 2019 in Russia. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020 , 41, 1039-1040 | 2.2 | |
| 218 | 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 |
| 217 | Experimental Study of Multi-Mode Dynamics of THz-Band Pulsed Magnetic Field Gyrotron. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1576-1579 | 4.4 | 1 |
| 216 | 1.2 THz Second Harmonic Gyrotron with Selective Groove 2019 , | | 1 |
| 215 | Second-Harmonic Generation of Subterahertz Gyrotron Radiation by Frequency Doubling in InP:Fe and Its Application for Magnetospectroscopy of Semiconductor Structures. <i>Semiconductors</i> , 2019 , 53, 1217-1221 | 0.7 | 4 |
| 214 | 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> , 2019 , 61, 797-800 | 0.7 | 4 |
| 213 | Millimeter-Wave Gyrotron Research System. I. Description of the Facility. <i>Radiophysics and Quantum Electronics</i> , 2019 , 61, 752-762 | 0.7 | 15 |
| 212 | Double-Beam Gyrotron With Frequency Multiplication. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 2396-2400 | 2.9 | 4 |
| 211 | Breakdown of the heavy noble gases in a focused beam of powerful sub-THz gyrotron. <i>Physics of Plasmas</i> , 2019 , 26, 083510 | 2.1 | 6 |
| 210 | Towards future THz band gyrotron development and applications: results, trends and aims 2019 , | | 1 |
| 209 | Third harmonic CW gyrotron with operating frequency 1.2 THz for a DNP /NMA spectroscopy 2019 , | | 1 |
| 208 | An Experimental Investigation of a 0.8 THz Double-Beam Gyrotron. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2019 , 40, 1114-1128 | 2.2 | 7 |
| 207 | Design and Test of 253/527 GHz Gyrotron for Spectroscopy Applications 2019 , | | 4 |

| | | | |
|-----|---|-----|----|
| 206 | Experimental study of the dynamics of microwave pyrolysis of peat. <i>ITM Web of Conferences</i> , 2019 , 30, 12006 | 0.1 | |
| 205 | Development of a High-Power Continuous-Wave Gyrotron for High-Efficiency Technological K-Band Microwave Complexes. <i>Radiophysics and Quantum Electronics</i> , 2019 , 62, 506-512 | 0.7 | 2 |
| 204 | Pulsed Gyrotron Start-up Scenario in Presence of Voltage/Current Surge Front 2019 , | | 3 |
| 203 | Recent Progress in K-band Technological Gyrotrons Development 2019 , | | 1 |
| 202 | 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 | 1.7 | 9 |
| 201 | Energy Spectra of Electron Beams and the Possibility of Double-Stage Energy Recuperation in a Double-Beam Terahertz Gyrotron. <i>Radiophysics and Quantum Electronics</i> , 2019 , 62, 342-347 | 0.7 | |
| 200 | Applications of the gas discharge sustained by the powerful radiation of THz gyrotrons. <i>Journal of Physics: Conference Series</i> , 2019 , 1400, 077032 | 0.3 | 2 |
| 199 | Dynamics of a Sub-terahertz Discharge in the Heavy Noble Gases Produced by a High-density Radiation Field 2019 , | | 1 |
| 198 | Frequency Stabilization in a Sub-Terahertz Gyrotron With Delayed Reflections of Output Radiation. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 2465-2469 | 1.3 | 13 |
| 197 | Narrowing of the Emission Spectrum of a Gyrotron with External Reflections. <i>Technical Physics Letters</i> , 2018 , 44, 221-224 | 0.7 | 6 |
| 196 | Gyrotron collector systems: Types and capabilities. <i>Infrared Physics and Technology</i> , 2018 , 91, 46-54 | 2.7 | 15 |
| 195 | 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 |
| 194 | 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 |
| 193 | Frequency Tunable sub-THz Gyrotron for Direct Measurements of Positronium Hyperfine Structure. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2018 , 39, 975-983 | 2.2 | 21 |
| 192 | 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 |
| 191 | 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> , 2018 , 51, 464002 | 3 | 13 |
| 190 | Two-Stage Energy Recovery System for THz band Double-Beam Gyrotron 2018 , | | 2 |
| 189 | From millimeter to microns IAP RAS powerful sources for various applications. <i>EPJ Web of Conferences</i> , 2018 , 195, 00001 | 0.3 | 2 |

| | | | |
|-----|--|-----|----|
| 188 | Terahertz-Range Gyrodevices of Planar Geometry. <i>EPJ Web of Conferences</i> , 2018 , 195, 01025 | 0.3 | |
| 187 | Pulsed magnets with high field intensity for laser-plasma experiments and TDS spectroscopy. <i>EPJ Web of Conferences</i> , 2018 , 195, 06006 | 0.3 | 1 |
| 186 | High-harmonic gyrotrons with irregular microwave systems. <i>EPJ Web of Conferences</i> , 2018 , 195, 01015 | 0.3 | 1 |
| 185 | Electron-optics systems with decreased life-time of trapped electrons for terahertz gyrotrons. <i>EPJ Web of Conferences</i> , 2018 , 195, 01007 | 0.3 | |
| 184 | Recent results on THz gyrotron-based molecular spectroscopy. <i>EPJ Web of Conferences</i> , 2018 , 195, 06017 | 0.3 | 2 |
| 183 | Doubling of gyrotron radiation frequency due to nonlinear susceptibility in A3B5 semiconductors. <i>EPJ Web of Conferences</i> , 2018 , 195, 02010 | 0.3 | 1 |
| 182 | Possibilities of Mode Selection in Double-Beam Gyrotrons with Additional Absorbing Beam 2018 , | | 1 |
| 181 | The project of third harmonic medium power W-band gyrotron. <i>EPJ Web of Conferences</i> , 2018 , 195, 01024 | 0.3 | 3 |
| 180 | Frequency control in subterahertz gyrotrons. <i>EPJ Web of Conferences</i> , 2018 , 195, 01005 | 0.3 | |
| 179 | Development of the Prototype of High Power Sub-THz Gyrotron for Advanced Fusion Power Plant (DEMO). <i>EPJ Web of Conferences</i> , 2018 , 195, 01008 | 0.3 | 4 |
| 178 | Using a Gyrotron as a Source of Modulated Radiation for Data Transmission Systems in the Terahertz Range. <i>EPJ Web of Conferences</i> , 2018 , 195, 09006 | 0.3 | 1 |
| 177 | Parameters of a CW Plasma Torch of Atmospheric Pressure Sustained by Focused Sub-Terahertz Gyrotron Radiation 2018 , | | 1 |
| 176 | Two-stage Energy Recovery System for DEMO Gyrotron 2018 , | | 1 |
| 175 | Terahertz Gyrotrons with Unique Parameters 2018 , | | 5 |
| 174 | Gyrotrons with Shortened Cavities as Tunable Sources of Powerful Sub-Terahertz Radiation for Spectroscopic Applications. <i>EPJ Web of Conferences</i> , 2018 , 195, 01012 | 0.3 | |
| 173 | Two-beam gyrotron with frequency multiplication. <i>EPJ Web of Conferences</i> , 2018 , 187, 01002 | 0.3 | |
| 172 | Status of a new 28 GHz continuous wave gasdynamic electron cyclotron resonance ion source development at IAP RAS 2018 , | | 2 |
| 171 | Observation of extreme ultraviolet light emission from an expanding plasma jet with multiply charged argon or xenon ions. <i>Applied Physics Letters</i> , 2018 , 113, 153502 | 3.4 | 15 |

| | | | |
|-----|--|-----|----|
| 170 | Design and Experimental Test Of 250 GHz/300 kW/CW Gyrotron. <i>EPJ Web of Conferences</i> , 2018 , 187, 01006 | 0.3 | |
| 169 | Frequency Tunable sub-THz Gyrotrons for Spectroscopy Applications. <i>EPJ Web of Conferences</i> , 2018 , 187, 01025 | 0.3 | |
| 168 | Development of Terahertz-Range Planar Gyrotrons with Transverse Energy Extraction Operating at Cyclotron Harmonics. <i>EPJ Web of Conferences</i> , 2018 , 187, 01008 | 0.3 | |
| 167 | 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> , 2017 , 43, 110-113 | 0.7 | 4 |
| 166 | Traditional vs. advanced Bragg reflectors for oversized circular waveguide. <i>Fusion Engineering and Design</i> , 2017 , 123, 477-480 | 1.7 | 7 |
| 165 | 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 | 0.7 | 10 |
| 164 | Use of Quasiregular Resonator Cavities with Short Phase Correctors in Gyrotrons Operated at Higher Cyclotron Harmonics. <i>Radiophysics and Quantum Electronics</i> , 2017 , 59, 655-666 | 0.7 | 5 |
| 163 | A novel THz-band double-beam gyrotron for high-field DNP-NMR spectroscopy. <i>Review of Scientific Instruments</i> , 2017 , 88, 094708 | 1.7 | 41 |
| 162 | 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> , 2017 , 149, 02032 | 0.3 | |
| 161 | Gas breakdown by a focused beam of THz waves. <i>EPJ Web of Conferences</i> , 2017 , 149, 02031 | 0.3 | 2 |
| 160 | High precision frequency stabilization of a 100W/263 GHz continuous wave gyrotron 2017 , | | 6 |
| 159 | Collector system of a gyrotron with magnetically shielded solenoid. <i>EPJ Web of Conferences</i> , 2017 , 149, 04043 | 0.3 | 2 |
| 158 | Development and applications of THz gyrotrons. <i>EPJ Web of Conferences</i> , 2017 , 149, 01008 | 0.3 | 3 |
| 157 | Reaching high sensitivity of radio-acoustic spectroscopy using strong microwaves <i>EPJ Web of Conferences</i> , 2017 , 149, 02028 | 0.3 | |
| 156 | High rate production of nanopowders by the evaporation & condensation method using gyrotron radiation. <i>EPJ Web of Conferences</i> , 2017 , 149, 02022 | 0.3 | 2 |
| 155 | Development of field emitter non-adiabatic electron optic system for the spectroscopic 263 GHz/CW gyrotron. <i>EPJ Web of Conferences</i> , 2017 , 149, 04036 | 0.3 | 1 |
| 154 | Development of advanced electron optical systems for novel gyrotrons. <i>EPJ Web of Conferences</i> , 2017 , 149, 04004 | 0.3 | 2 |
| 153 | Theory of initial stage of the breakdown in non-uniform gas flow. <i>EPJ Web of Conferences</i> , 2017 , 149, 02034 | 0.3 | |

| | | | |
|-----|---|-----|----|
| 152 | 45GHz/20kW gyrotron setup with automated output power control for ECR ion source. <i>EPJ Web of Conferences</i> , 2017 , 149, 04032 | 0.3 | 1 |
| 151 | Application of the 263GHz/1kW gyrotron setup to produce a metal oxide nanopowder by the evaporation-condensation technique. <i>Vacuum</i> , 2017 , 145, 340-346 | 3.7 | 22 |
| 150 | Glow of the Plasma of a Pulse Discharge Produced in Nitrogen by High-Power Terahertz-Wave Radiation. <i>Radiophysics and Quantum Electronics</i> , 2017 , 60, 136-142 | 0.7 | 5 |
| 149 | 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> , 2017 , 43, 778-791 | 1.2 | 4 |
| 148 | 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> , 2017 , 64, 3893-3897 | 2.9 | 19 |
| 147 | Magnetically shielded electron-optical system of a continuous gyrotron with an operating frequency of 24 GHz. <i>Journal of Communications Technology and Electronics</i> , 2017 , 62, 1165-1171 | 0.5 | 3 |
| 146 | Operation of a sub-terahertz CW gyrotron with an extremely low voltage. <i>Physics of Plasmas</i> , 2017 , 24, 113105 | 2.1 | 15 |
| 145 | Nonadiabatic Electron-Optical System of a Technological Gyrotron. <i>Radiophysics and Quantum Electronics</i> , 2017 , 60, 395-400 | 0.7 | 5 |
| 144 | Molecular gas spectroscopy using radioacoustic detection and high-power coherent subterahertz radiation sources. <i>Journal of Molecular Spectroscopy</i> , 2017 , 331, 9-16 | 1.3 | 23 |
| 143 | 45GHz/20kW gyrotron-based microwave generator for ECR ion source 2017 , | | 1 |
| 142 | Experimental study of a THz band double-beam gyrotron 2017 , | | 4 |
| 141 | Development of high power THz band gyrotrons and their applications in physical research 2017 , | | 4 |
| 140 | A point-like plasma, sustained by powerful radiation of terahertz gyrotrons, as a source of ultraviolet light 2017 , | | 2 |
| 139 | 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> , 2017 , 111, 073504 | 3.4 | 3 |
| 138 | High precision frequency stabilization of a 263 GHz continuous wave gyrotron. <i>EPJ Web of Conferences</i> , 2017 , 149, 04022 | 0.3 | 2 |
| 137 | Development of high-efficient gyrotron based complex for industrial applications. <i>EPJ Web of Conferences</i> , 2017 , 149, 04034 | 0.3 | 2 |
| 136 | Efficient approaches in synthesis and design of multi-mode units for mm and THz devices 2017 , | | 1 |
| 135 | Gas breakdown by a focused beam of CW THz radiation 2017 , | | 1 |

| | | | |
|-----|--|-----|----|
| 134 | A possibility of remote detection of air breakdown in a focal spot of microwave beam using reflected signal. <i>EPJ Web of Conferences</i> , 2017 , 149, 02033 | 0.3 | |
| 133 | Electrokinetic and Biochemical Changes in Erythrocytes under the Action of Terahertz Range Electromagnetic Waves. <i>Biophysics (Russian Federation)</i> , 2017 , 62, 914-918 | 0.7 | |
| 132 | Non-adiabatic electron-optical system for 170GHz/1MW/CW gyrotron. <i>EPJ Web of Conferences</i> , 2017 , 149, 04035 | 0.3 | |
| 131 | Influence of weak reflection from a nonresonant load on the operation frequency of the 28 GHz technological gyrotron. <i>EPJ Web of Conferences</i> , 2017 , 149, 04037 | 0.3 | 3 |
| 130 | High-temperature microwave pyrolysis of peat as a method to obtaining liquid and gaseous fuels. <i>EPJ Web of Conferences</i> , 2017 , 149, 02023 | 0.3 | 1 |
| 129 | The concept of an electron-optical system with field emitter for a spectroscopic gyrotron. <i>Infrared Physics and Technology</i> , 2016 , 78, 185-189 | 2.7 | 10 |
| 128 | Improvement of Stability of High Cyclotron Harmonic Operation in the Double-Beam THz Gyrotrons. <i>IEEE Transactions on Plasma Science</i> , 2016 , 1-7 | 1.3 | 14 |
| 127 | 45 GHz/20 kW gyrotron-based system for ECR ION source 2016 , | | 3 |
| 126 | Initial Stage of the Microwave Ionization Wave Within a 1D Model. <i>Radiophysics and Quantum Electronics</i> , 2016 , 58, 905-913 | 0.7 | 1 |
| 125 | Frequency Stabilization of a 0.67-THz Gyrotron by Self-Injection Locking. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 1288-1293 | 2.9 | 11 |
| 124 | A waveguide high-pass filter system for measuring the spectrum of pulsed terahertz sources. <i>Infrared Physics and Technology</i> , 2016 , 76, 11-20 | 2.7 | 2 |
| 123 | High power terahertz sources for spectroscopy and material diagnostics. <i>Uspekhi Fizicheskikh Nauk</i> , 2016 , 186, 667-677 | 0.5 | 1 |
| 122 | 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> , 2016 , 23, 043511 | 2.1 | 16 |
| 121 | Development of gyro-devices at IAP/GYCOM in the range from gigahertz to terahertz 2016 , | | 1 |
| 120 | Prospects of realization of powerful sub-millimeter relativistic cyclotron masers 2016 , | | 1 |
| 119 | Gas breakdown by a focused CW 263 GHz beam 2016 , | | 2 |
| 118 | Development and preliminary tests of a second harmonic double-beam continuous wave gyrotron with operating frequency of 0.79 THz 2016 , | | 3 |
| 117 | Optimal parameters of gyrotrons with weak electron-wave interaction. <i>Physics of Plasmas</i> , 2016 , 23, 093108 | | 5 |

| | | | |
|-----|--|-----|----|
| 116 | High power terahertz sources for spectroscopy and material diagnostics. <i>Physics-Uspekhi</i> , 2016 , 59, 595-604 | | 44 |
| 115 | Breakdown simulations in a focused microwave beam within the simplified model. <i>Physics of Plasmas</i> , 2016 , 23, 073109 | 2.1 | 15 |
| 114 | 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 |
| 113 | Gyrotron Frequency Stabilization by a Weak Reflected Wave. <i>Radiophysics and Quantum Electronics</i> , 2016 , 58, 673-683 | 0.7 | 11 |
| 112 | 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 |
| 111 | Relief Creation on Molybdenum Plates in Discharges Initiated by Gyrotron Radiation in Metal-Dielectric Powder Mixtures. <i>Radiophysics and Quantum Electronics</i> , 2016 , 58, 701-709 | 0.7 | 5 |
| 110 | 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> , 2015 , 36, 7-12 | 2.2 | 3 |
| 109 | Stabilization of gyrotron frequency by reflection from nonresonant and resonant loads. <i>Technical Physics Letters</i> , 2015 , 41, 628-631 | 0.7 | 23 |
| 108 | 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 | 2.4 | 55 |
| 107 | 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 |
| 106 | Effect of ion compensation of the beam space charge on gyrotron operation. <i>Physics of Plasmas</i> , 2015 , 22, 043119 | 2.1 | 9 |
| 105 | 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> , 2015 , 58, 327-338 | 0.7 | 4 |
| 104 | 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> , 2015 , 36, 1164-1175 | 2.2 | 17 |
| 103 | Experimental investigation of powerful THz gyrotrons for initiation of localized gas discharge 2015 , | | 2 |
| 102 | A one-dimensional study of the evolution of the microwave breakdown in air. <i>Physics of Plasmas</i> , 2015 , 22, 092308 | 2.1 | 26 |
| 101 | Frequency stabilization of a 0.67 THz gyrotron by delayed reflection 2015 , | | 2 |
| 100 | Mutual synchronization of weakly coupled gyrotrons. <i>Physics of Plasmas</i> , 2015 , 22, 093118 | 2.1 | 6 |
| 99 | Efficiency of gyrotrons working at the second harmonic of gyrofrequency with multistage systems for recuperation of residual electron energy. <i>Technical Physics</i> , 2015 , 60, 757-760 | 0.5 | 2 |

| | | | |
|----|---|-----|----|
| 98 | Improving frequency stability of a 0.67 THz gyrotron by delayed reflection 2015 , | | 1 |
| 97 | The Discharge Maintained by High-Power Terahertz Radiation in a Nonuniform Gas Flow. <i>Radiophysics and Quantum Electronics</i> , 2014 , 56, 561-565 | 0.7 | 13 |
| 96 | 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 |
| 95 | Electron-optical systems for planar gyrotrons. <i>Physics of Plasmas</i> , 2014 , 21, 023106 | 2.1 | 18 |
| 94 | 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, 174101 | 3.4 | 54 |
| 93 | Terahertz gyrotrons: State of the art and prospects. <i>Journal of Communications Technology and Electronics</i> , 2014 , 59, 792-797 | 0.5 | 29 |
| 92 | Development of the 75-GHz planar gyrotron with transverse energy extraction. <i>Journal of Communications Technology and Electronics</i> , 2014 , 59, 777-781 | 0.5 | 4 |
| 91 | Mode Competition in a Two-Mode Gyrotron With Delayed Reflections. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 2030-2036 | 1.3 | 14 |
| 90 | Multiparametric gyrotron power control during microwave processing of materials. <i>Technical Physics Letters</i> , 2013 , 39, 140-142 | 0.7 | 3 |
| 89 | A double-beam magnetron-injection gun for third-harmonic continuous wave 1-THz gyrotron. <i>Physics of Plasmas</i> , 2013 , 20, 123303 | 2.1 | 8 |
| 88 | A magnetron injection gun with a reduced filament temperature and elongated cathode lifetime. <i>Technical Physics Letters</i> , 2013 , 39, 1068-1070 | 0.7 | 1 |
| 87 | 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> , 2013 , 34, 119-126 | 2.2 | 2 |
| 86 | Low-voltage gyrotrons. <i>Physics of Plasmas</i> , 2013 , 20, 033103 | 2.1 | 25 |
| 85 | Three-dimensional particle-in-cell modeling of terahertz gyrotrons with cylindrical and planar configurations of the interaction space. <i>Physics of Plasmas</i> , 2013 , 20, 043103 | 2.1 | 12 |
| 84 | The concept of remote detection of concealed radioactive materials by using high-power THz radiation 2013 , | | 1 |
| 83 | Novel approach to the theory of longitudinally inhomogeneous lossy waveguides 2013 , | | 9 |
| 82 | On the sensitivity of terahertz gyrotron based systems for remote detection of concealed radioactive materials. <i>Journal of Applied Physics</i> , 2012 , 111, 124912 | 2.5 | 33 |
| 81 | Experimental program to test a high-power, 670 GHz gyrotron, and its applicability to the remote detection of concealed radioactive materials 2012 , | | 1 |

| | | | |
|----|---|-----|-----|
| 80 | A 670 GHz gyrotron with record power and efficiency. <i>Applied Physics Letters</i> , 2012 , 101, 153503 | 3.4 | 110 |
| 79 | A magnetron injection gun with extraction of reflected electrons. <i>Technical Physics Letters</i> , 2012 , 38, 680-682 | 0.7 | 2 |
| 78 | Development of a Magnetic Cusp Gun for Terahertz Harmonic Gyrodevices. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 3635-3640 | 2.9 | 21 |
| 77 | The K(a)-band 10-kW continuous wave gyrotron with wide-band fast frequency sweep. <i>Review of Scientific Instruments</i> , 2012 , 83, 074706 | 1.7 | 14 |
| 76 | 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 |
| 75 | Development of a high-power pulsed subterahertz gyrotron for remote detection of sources of ionizing radiation. <i>Radiophysics and Quantum Electronics</i> , 2012 , 54, 600-608 | 0.7 | 14 |
| 74 | Experimental studies of the electron-optical system of a low-voltage gyrotron with a nonadiabatic electron gun. <i>Radiophysics and Quantum Electronics</i> , 2012 , 54, 622-626 | 0.7 | 1 |
| 73 | Experimental investigation of powerful 0.67 THz gyrotron with a pulsed solenoid for remote detection of concealed radioactive materials 2012 , | | 1 |
| 72 | The multi-mode gyrotron. <i>Physics of Plasmas</i> , 2011 , 18, 104502 | 2.1 | 2 |
| 71 | A pulse magnetic-field generator for terahertz gyrodevices. <i>Instruments and Experimental Techniques</i> , 2011 , 54, 77-80 | 0.5 | 11 |
| 70 | Terahertz Gyrotrons at IAP RAS: Status and New Designs. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011 , 32, 371-379 | 2.2 | 44 |
| 69 | Development of THz-range Gyrotrons for Detection of Concealed Radioactive Materials. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011 , 32, 380-402 | 2.2 | 38 |
| 68 | Generation of 5 kW/1 THz coherent radiation from pulsed magnetic field gyrotron 2010 , | | 2 |
| 67 | Electron Optical System of the Sub-terahertz Coaxial Gyrotron with Continuous Frequency Tuning. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2010 , 31, 912 | 2.2 | 6 |
| 66 | 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> , 2010 , 31, 1109-1114 | 2.2 | 4 |
| 65 | Review of Subterahertz and Terahertz Gyrodevices at IAP RAS and FIR FU. <i>IEEE Transactions on Plasma Science</i> , 2009 , 37, 36-43 | 1.3 | 92 |
| 64 | Nonparaxial magnetron injection gun for a high-power pulsed submillimeter-wave gyrotron. <i>Radiophysics and Quantum Electronics</i> , 2009 , 52, 150-156 | 0.7 | 3 |
| 63 | 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> , 2009 , 52, 370-378 | 0.7 | 3 |

| | | | |
|----|--|-----|-----|
| 62 | Studies of continuous-wave submillimeter-wave gyrotrons for spectroscopy and diagnostics of various media. <i>Radiophysics and Quantum Electronics</i> , 2009 , 52, 500-510 | 0.7 | 7 |
| 61 | Efficiency enhancement of gyrotron based setups for materials processing 2009 , | | 3 |
| 60 | Prospective gyro-devices for technological applications 2009 , | | 4 |
| 59 | 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 | 7.4 | 253 |
| 58 | Generation of kW level THz radiation by the gyrotron with pulsed magnetic field 2008 , | | 1 |
| 57 | Design of Gyrotron FU CW VI for 600 MHz DNP-NMR experiment 2008 , | | 1 |
| 56 | High efficient gyrotron-based systems for technological applications 2008 , | | 1 |
| 55 | Smooth wideband tuning of the operating frequency of a gyrotron. <i>Radiophysics and Quantum Electronics</i> , 2008 , 51, 57-63 | 0.7 | 11 |
| 54 | Optimization of the Cavity Length of the Gyrotrons Operated at the Second Gyrofrequency Harmonic with One-stage Recovery of the Residual Energy of an Electron Beam. <i>Radiophysics and Quantum Electronics</i> , 2008 , 51, 556-560 | 0.7 | |
| 53 | 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 |
| 52 | 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 | | 10 |
| 51 | A High-Efficiency Second-Harmonic Gyrotron with a Depressed Collector. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2008 , 29, 1004-1010 | | 18 |
| 50 | Design of a Subterahertz, Third-Harmonic, Continuous-Wave Gyrotron. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 591-596 | 1.3 | 26 |
| 49 | A terahertz gyrotron with pulsed magnetic field. <i>Radiophysics and Quantum Electronics</i> , 2007 , 50, 755-760. | 0.7 | 11 |
| 48 | Gyro-TWTs and Gyro-BWOs with helically corrugated waveguides 2007 , | | 2 |
| 47 | High Efficient Gyrotron-Based Systems for Materials Processing 2007 , | | 1 |
| 46 | The Experimental Tests of THz Range Gyrotron with Pulsed Magnetic Field 2007 , | | 1 |
| 45 | Imaging the Output Field Pattern of Short Millimeter Wave Sources Using Visible Continuum Emitted by the Cs-Xe DC Discharge 2006 , | | 1 |

| | | | |
|----|---|-----|-----|
| 44 | 24-28 GHz Gyrotron-based Sources for Technological Applications 2006 , | | 2 |
| 43 | 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 | 4.1 | 5 |
| 42 | 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 | 0.7 | 8 |
| 41 | 3.5 kW 24 GHz Compact Gyrotron System for Microwave Processing of Materials 2006 , 24-30 | | 3 |
| 40 | Modelling and simulation of gyrotrons. <i>Vacuum</i> , 2005 , 77, 519-525 | 3.7 | 10 |
| 39 | Development of a high harmonic gyrotron with an axis-encircling electron beam and a permanent magnet. <i>Vacuum</i> , 2005 , 77, 539-546 | 3.7 | 18 |
| 38 | 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> , 2005 , 33, 380-381 | 1.3 | 5 |
| 37 | Electron Optic System of Powerful Large Orbit Gyrotron with Pulse Magnetic Field. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2005 , 26, 15-28 | | 4 |
| 36 | High Temperature Thermal Insulation System for Millimeter Wave Sintering of B4C. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2005 , 26, 1531-1541 | | 22 |
| 35 | Electron-Optical System of a High-Power Gyrotron with Nonadiabatic Electron Gun. <i>Radiophysics and Quantum Electronics</i> , 2005 , 48, 461-465 | 0.7 | 7 |
| 34 | Technological gyrotron with low accelerating voltage. <i>Radiophysics and Quantum Electronics</i> , 2005 , 48, 741-747 | 0.7 | 11 |
| 33 | BORON CARBIDE CERAMICS SINTERING BY USING 24 GHz COMPACT GYROTRON 2005 , 155-158 | | 1 |
| 32 | Novel source of the chaotic microwave radiation based on the gyrotron backward-wave oscillator 2005 , | | 1 |
| 31 | Frequency-tunable CW gyro-BWO with a helically rippled operating waveguide. <i>IEEE Transactions on Plasma Science</i> , 2004 , 32, 884-889 | 1.3 | 32 |
| 30 | 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 | 1.3 | 53 |
| 29 | . <i>IEEE Transactions on Plasma Science</i> , 2004 , 32, 67-72 | 1.3 | 105 |
| 28 | Design of a Large Orbit Gyrotron with a Permanent Magnet System. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2003 , 24, 253-260 | | 11 |
| 27 | Influence of Voltage Fluctuations on Gyrotron Efficiency and Stability. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2003 , 24, 409-418 | | 2 |

| | | | |
|----|--|-----|----|
| 26 | Simulation of a High Harmonic Gyrotron with Axis-Encircling Electron Beam and Permanent Magnet. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2002 , 23, 675-692 | | 7 |
| 25 | Gyrotron FU series Current status of development and applications. <i>Vacuum</i> , 2001 , 62, 123-132 | 3.7 | 26 |
| 24 | Design of a large orbit gyrotron with a permanent magnet system. <i>Vacuum</i> , 2001 , 62, 133-142 | 3.7 | 6 |
| 23 | The spread of the initial energy of electrons in a gyrotron due to the negative-mass instability developing in a magnetron-injector gun. <i>Technical Physics</i> , 2000 , 45, 470-475 | 0.5 | 3 |
| 22 | Measurements of the spread in the initial electron energy in a gyrotron. <i>Technical Physics</i> , 2000 , 45, 476-479 | 0.5 | 3 |
| 21 | The energy spectrum of an electron beam after interaction with an RF field in a gyrotron. <i>Technical Physics</i> , 2000 , 45, 1571-1574 | 0.5 | 3 |
| 20 | Influence of reflections on mode competition in gyrotrons. <i>IEEE Transactions on Plasma Science</i> , 2000 , 28, 588-596 | 1.3 | 26 |
| 19 | 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 | | 9 |
| 18 | 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> , 2000 , 21, 1191-1209 | | 19 |
| 17 | Experimental study of the output radiation spectrum of a gyrotron with partial reflection of the output signal. <i>Radiophysics and Quantum Electronics</i> , 2000 , 43, 396-399 | 0.7 | 11 |
| 16 | Influence of the microwave-signal reflection on the generation efficiency of tunable gyrotrons. <i>Radiophysics and Quantum Electronics</i> , 1999 , 42, 962-966 | 0.7 | 2 |
| 15 | Experimental studies of gyrotron electron beam systems. <i>IEEE Transactions on Plasma Science</i> , 1999 , 27, 474-483 | 1.3 | 23 |
| 14 | Reflections Influence on the Gyrotron Oscillation Regimes. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1998 , 19, 1499-1511 | | 30 |
| 13 | A proposal to use reflection with delay for achieving the self-modulation and stochastic regimes in millimeter-wave gyrotrons. <i>Technical Physics Letters</i> , 1998 , 24, 436-438 | 0.7 | 28 |
| 12 | The influence of reflections on the stability of gyrotron autooscillations. <i>Radiophysics and Quantum Electronics</i> , 1998 , 41, 916-922 | 0.7 | 4 |
| 11 | Nonstationary processes in a gyrotron with reflections from output-section inhomogeneities. <i>Radiophysics and Quantum Electronics</i> , 1998 , 41, 1096-1100 | 0.7 | 3 |
| 10 | Experimental study of a 110-GHz/1-MW gyrotron with a single-stage depressed collector. <i>Radiophysics and Quantum Electronics</i> , 1998 , 41, 449-456 | 0.7 | 5 |
| 9 | Mode competition in nonstationary regimes of high-power gyrotrons. <i>Radiophysics and Quantum Electronics</i> , 1998 , 41, 542-548 | 0.7 | 8 |

| | | | |
|---|---|-----|----|
| 8 | Experimental investigation of a 110 GHz/1 MW gyrotron with the one-step depressed collector. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1997 , 18, 2129-2136 | | 28 |
| 7 | Experimental investigation of emission inhomogeneity of gyrotron cathodes basing on their current-voltage characteristics. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1997 , 18, 2137-2146 | | 5 |
| 6 | Experimental study of the emission spread at gyrotron cathodes by current-voltage characteristics. <i>Radiophysics and Quantum Electronics</i> , 1997 , 40, 336-342 | 0.7 | 1 |
| 5 | Numerical simulation of transient processes in a 170 GHz/1 MW gyrotron for ITER. <i>Radiophysics and Quantum Electronics</i> , 1996 , 39, 788-792 | 0.7 | 3 |
| 4 | Sintering of high-quality ceramics using a compact gyrotron system | | 1 |
| 3 | Ceramics sintering using a 24 GHz gyrotron system | | 1 |
| 2 | Recent test results on broad-band gyro-TWT and gyro-BWO with hellically grooved operating waveguides | | 3 |
| 1 | Some opportunities to control and stabilize frequency of gyrotron | | 5 |