

M V Morozkin

List of Publications by Year in descending order

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52
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citing authors

#	ARTICLE	IF	CITATIONS
1	A 250-Watts, 0.5-THz Continuous-Wave Second-Harmonic Gyrotron. IEEE Electron Device Letters, 2021, 42, 1666-1669.	3.9	19
2	An Experimental Study of the Influence of the Longitudinal Magnetic-Field Distribution Profile on the Output Characteristics of a Gyrotron. Instruments and Experimental Techniques, 2021, 64, 97-101.	0.5	1
3	Development and experimental tests of 250W/526 GHz/CW second harmonic gyrotron. , 2021, , .		2
4	Pulsed magnetic field generation system for laser-plasma research. Review of Scientific Instruments, 2021, 92, 123506.	1.3	6
5	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.	2.2	5
6	A Magneto-Armored Warm-Solenoid Based System for K-Band Gyrodevices. Instruments and Experimental Techniques, 2020, 63, 97-100.	0.5	6
7	Optimization of Collector Systems of Technological Gyrotrons with Shielded Magnetic Systems. Radiophysics and Quantum Electronics, 2020, 63, 413-421.	0.5	2
8	Breakdown of the heavy noble gases in a focused beam of powerful sub-THz gyrotron. Physics of Plasmas, 2019, 26, .	1.9	8
9	Design and Test of 253/527 GHz Gyrotron for Spectroscopy Applications. , 2019, , .		5
10	Recent Progress in K-band Technological Gyrotrons Development. , 2019, , .		1
11	Dynamics of a Sub-terahertz Discharge in the Heavy Noble Gases Produced by a High-density Radiation Field. , 2019, , .		2
12	Gyrotron collector systems: Types and capabilities. Infrared Physics and Technology, 2018, 91, 46-54.	2.9	21
13	High-power sub-terahertz source with a record frequency stability at up to 1â€‰‰Hz. Scientific Reports, 2018, 8, 4317.	3.3	65
14	Pulsed magnets with high field intensity for laser-plasma experiments and TDS spectroscopy. EPJ Web of Conferences, 2018, 195, 06006.	0.3	1
15	Gyrotron-Based Microwave Systems for Technological Applications: Recent Experiments and New Designs. , 2018, , .		0
16	Frequency control in subterahertz gyrotrons. EPJ Web of Conferences, 2018, 195, 01005.	0.3	0
17	Two-stage Energy Recovery System for DEMO Gyrotron. , 2018, , .		6
18	Status of a new 28â€‰‰GHz continuous wave gasdynamic electron cyclotron resonance ion source development at IAP RAS. AIP Conference Proceedings, 2018, , .	0.4	4

#	ARTICLE	IF	CITATIONS
19	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.	3.0	15
20	First experimental tests of powerful 250 GHz gyrotron for future fusion research and collective Thomson scattering diagnostics. Review of Scientific Instruments, 2018, 89, 084702.	1.3	56
21	High precision frequency stabilization of a 100W/263 GHz continuous wave gyrotron. , 2017, , .		7
22	Development and preliminary tests of a second harmonic double-beam continuous wave gyrotron with operating frequency of 0.79 THz. , 2016, , .		3
23	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. Radiophysics and Quantum Electronics, 2016, 58, 639-648.	0.5	12
24	45 GHz/20 kW gyrotron-based system for ECR ION source. , 2016, , .		3
25	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.	0.7	4
26	Development of THz range CW gyrotrons at IAP RAS. , 2015, , .		0
27	Experimental tests of a 263 GHz gyrotron for spectroscopic applications and diagnostics of various media. Review of Scientific Instruments, 2015, 86, 054705.	1.3	108
28	Experimental investigations of 263 GHz/1 kW gyrotron based system for diagnostic of various media. , 2015, , .		1
29	Experimental investigation of powerful THz gyrotrons for initiation of localized gas discharge. , 2015, , .		2
30	Investigation of subterahertz gyrotron for DNP NMR spectroscopy at IAP RAS. , 2014, , .		0
31	The Discharge Maintained by High-Power Terahertz Radiation in a Nonuniform Gas Flow. Radiophysics and Quantum Electronics, 2014, 56, 561-565.	0.5	18
32	Experimental Study of the Pulsed Terahertz Gyrotron with Record-Breaking Power and Efficiency Parameters. Radiophysics and Quantum Electronics, 2014, 56, 497-507.	0.5	36
33	Terahertz gyrotrons: State of the art and prospects. Journal of Communications Technology and Electronics, 2014, 59, 792-797.	0.5	35
34	Multiparametric gyrotron power control during microwave processing of materials. Technical Physics Letters, 2013, 39, 140-142.	0.7	3
35	A magnetron injection gun with a reduced filament temperature and elongated cathode lifetime. Technical Physics Letters, 2013, 39, 1068-1070.	0.7	2
36	Experimental investigation of powerful 0.67 THz gyrotron with a pulsed solenoid for remote detection of concealed radioactive materials. , 2012, , .		2

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37	The Ka-band 10-kW continuous wave gyrotron with wide-band fast frequency sweep. Review of Scientific Instruments, 2012, 83, 074706.	1.3	16
38	Development of a high-power pulsed subterahertz gyrotron for remote detection of sources of ionizing radiation. Radiophysics and Quantum Electronics, 2012, 54, 600-608.	0.5	14
39	Experimental studies of the electron-optical system of a low-voltage gyrotron with a nonadiabatic electron gun. Radiophysics and Quantum Electronics, 2012, 54, 622-626.	0.5	3
40	A pulse magnetic-field generator for terahertz gyrodevices. Instruments and Experimental Techniques, 2011, 54, 77-80.	0.5	14
41	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.	2.2	4
42	Gyrotron-based systems for microwave technologies. , 2010, , .		0
43	Efficiency enhancement of gyrotron based setups for materials processing. , 2009, , .		3
44	Smooth wideband tuning of the operating frequency of a gyrotron. Radiophysics and Quantum Electronics, 2008, 51, 57-63.	0.5	13
45	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. Radiophysics and Quantum Electronics, 2008, 51, 556-560.	0.5	0
46	Experimental study of a gyrotron operated at the second gyrofrequency harmonic with the single-stage energy recovery. Radiophysics and Quantum Electronics, 2008, 51, 768-771.	0.5	2
47	A High-Efficiency Second-Harmonic Gyrotron with a Depressed Collector. Journal of Infrared, Millimeter and Terahertz Waves, 2008, 29, 1004-1010.	0.6	19
48	High Efficient Gyrotron-Based Systems for Materials Processing. , 2007, , .		1
49	Development of High Efficient Technological Gyrotron with Depressed Collector. , 2007, , .		0
50	Improved Energy Performance of Gyrotron Material Processing Plants. , 2007, , .		0
51	Separation of energy fractions of an electron beam by a localized nonuniformity of magnetic field in the collector region of gyrodevices. Radiophysics and Quantum Electronics, 2006, 49, 811-815.	0.5	11
52	Magnetic Separator of Electrons for Gyrodevices with Multistage Depressed Collector. , 2006, , .		0