

M V Morozkin

List of Publications by Year in descending order

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52
papers

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759233

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52
all docs

52
docs citations

52
times ranked

250
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	High-power sub-terahertz source with a record frequency stability at up to 1â€‰‰Hz. Scientific Reports, 2018, 8, 4317.	3.3	65
3	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
4	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
5	Terahertz gyrotrons: State of the art and prospects. Journal of Communications Technology and Electronics, 2014, 59, 792-797.	0.5	35
6	Gyrotron collector systems: Types and capabilities. Infrared Physics and Technology, 2018, 91, 46-54.	2.9	21
7	A High-Efficiency Second-Harmonic Gyrotron with a Depressed Collector. Journal of Infrared, Millimeter and Terahertz Waves, 2008, 29, 1004-1010.	0.6	19
8	A 250-Watts, 0.5-THz Continuous-Wave Second-Harmonic Gyrotron. IEEE Electron Device Letters, 2021, 42, 1666-1669.	3.9	19
9	The Discharge Maintained by High-Power Terahertz Radiation in a Nonuniform Gas Flow. Radiophysics and Quantum Electronics, 2014, 56, 561-565.	0.5	18
10	The Ka-band 10-kW continuous wave gyrotron with wide-band fast frequency sweep. Review of Scientific Instruments, 2012, 83, 074706.	1.3	16
11	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
12	A pulse magnetic-field generator for terahertz gyrodevices. Instruments and Experimental Techniques, 2011, 54, 77-80.	0.5	14
13	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
14	Smooth wideband tuning of the operating frequency of a gyrotron. Radiophysics and Quantum Electronics, 2008, 51, 57-63.	0.5	13
15	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
16	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
17	Breakdown of the heavy noble gases in a focused beam of powerful sub-THz gyrotron. Physics of Plasmas, 2019, 26, .	1.9	8
18	High precision frequency stabilization of a 100W/263 GHz continuous wave gyrotron. , 2017, , .		7

#	ARTICLE	IF	CITATIONS
19	Two-stage Energy Recovery System for DEMO Gyrotron. , 2018, , .		6
20	A Magneto-Armored Warm-Solenoid Based System for K-Band Gyrodevices. Instruments and Experimental Techniques, 2020, 63, 97-100.	0.5	6
21	Pulsed magnetic field generation system for laser-plasma research. Review of Scientific Instruments, 2021, 92, 123506.	1.3	6
22	Design and Test of 253/527 GHz Gyrotron for Spectroscopy Applications. , 2019, , .		5
23	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
24	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
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	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
27	Efficiency enhancement of gyrotron based setups for materials processing. , 2009, , .		3
28	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
29	Multiparametric gyrotron power control during microwave processing of materials. Technical Physics Letters, 2013, 39, 140-142.	0.7	3
30	Development and preliminary tests of a second harmonic double-beam continuous wave gyrotron with operating frequency of 0.79 THz. , 2016, , .		3
31	45 GHz/20 kW gyrotron-based system for ECR ION source. , 2016, , .		3
32	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
33	Experimental investigation of powerful 0.67 THz gyrotron with a pulsed solenoid for remote detection of concealed radioactive materials. , 2012, , .		2
34	A magnetron injection gun with a reduced filament temperature and elongated cathode lifetime. Technical Physics Letters, 2013, 39, 1068-1070.	0.7	2
35	Experimental investigation of powerful THz gyrotrons for initiation of localized gas discharge. , 2015, , .		2
36	Dynamics of a Sub-terahertz Discharge in the Heavy Noble Gases Produced by a High-density Radiation Field. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
37	Development and experimental tests of 250W/526 GHz/CW second harmonic gyrotron. , 2021, , .		2
38	Optimization of Collector Systems of Technological Gyrotrons with Shielded Magnetic Systems. Radiophysics and Quantum Electronics, 2020, 63, 413-421.	0.5	2
39	High Efficient Gyrotron-Based Systems for Materials Processing. , 2007, , .		1
40	Experimental investigations of 263 GHz/1 kW gyrotron based system for diagnostic of various media. , 2015, , .		1
41	Pulsed magnets with high field intensity for laser-plasma experiments and TDS spectroscopy. EPJ Web of Conferences, 2018, 195, 06006.	0.3	1
42	Recent Progress in K-band Technological Gyrotrons Development. , 2019, , .		1
43	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
44	Magnetic Separator of Electrons for Gyrodevices with Multistage Depressed Collector. , 2006, , .		0
45	Development of High Efficient Technological Gyrotron with Depressed Collector. , 2007, , .		0
46	Improved Energy Performance of Gyrotron Material Processing Plants. , 2007, , .		0
47	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
48	Gyrotron-based systems for microwave technologies. , 2010, , .		0
49	Investigation of subterahertz gyrotron for DNP NMR spectroscopy at IAP RAS. , 2014, , .		0
50	Development of THz range CW gyrotrons at IAP RAS. , 2015, , .		0
51	Gyrotron-Based Microwave Systems for Technological Applications: Recent Experiments and New Designs. , 2018, , .		0
52	Frequency control in subterahertz gyrotrons. EPJ Web of Conferences, 2018, 195, 01005.	0.3	0