

# Alexander A Bogdashov

## List of Publications by Year in descending order

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53  
docs citations

53  
times ranked

271  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ka-Band Gyrotron Traveling-Wave Tubes With the Highest Continuous-Wave and Average Power. IEEE Transactions on Electron Devices, 2014, 61, 4264-4267.	3.0	109
2	Mirror synthesis for gyrotron quasi-optical mode converters. Journal of Infrared, Millimeter and Terahertz Waves, 1995, 16, 735-744.	0.6	70
3	Frequency-Tunable CW Gyro-BWO With a Helically Rippled Operating Waveguide. IEEE Transactions on Plasma Science, 2004, 32, 884-889.	1.3	46
4	CW Operation of a W-Band High-Gain Helical-Waveguide Gyrotron Traveling-Wave Tube. IEEE Electron Device Letters, 2020, 41, 773-776.	3.9	46
5	Gyrotron Development for High Power THz Technologies at IAP RAS. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 715-723.	2.2	41
6	Cascade of Two W-Band Helical-Waveguide Gyro-TWTs With High Gain and Output Power: Concept and Modeling. IEEE Transactions on Electron Devices, 2017, 64, 1305-1309.	3.0	41
7	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
8	Microwave System for Feeding and Extracting Power To and From a Gyrotron Traveling-Wave Tube Through One Window. IEEE Electron Device Letters, 2014, 35, 789-791.	3.9	26
9	Plans for a new ECRH system at ASDEX upgrade. Fusion Engineering and Design, 2003, 66-68, 537-542.	1.9	23
10	Proof-of-Principle Experiment on High-Power Gyrotron Traveling-Wave Tube With a Microwave System for Driving and Extracting Power Through One Window. IEEE Microwave and Wireless Components Letters, 2016, 26, 288-290.	3.2	19
11	Frequency Stabilization in a Sub-Terahertz Gyrotron With Delayed Reflections of Output Radiation. IEEE Transactions on Plasma Science, 2018, 46, 2465-2469.	1.3	19
12	High-Efficient Mode Converter for ITER Gyrotron. Journal of Infrared, Millimeter and Terahertz Waves, 2005, 26, 771-785.	0.6	18
13	Cyclotron Resonance Maser With Zigzag Quasi-Optical Transmission Line: Concept and Modeling. IEEE Transactions on Electron Devices, 2021, 68, 5846-5850.	3.0	17
14	Mode Converter Synthesis by the Particle Swarm Optimization. Journal of Infrared, Millimeter and Terahertz Waves, 2007, 28, 627-638.	0.6	16
15	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
16	Millimeter Wave Multi-mode Transmission Line Components. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 343-357.	2.2	13
17	New Radiation Input/Output Systems for Millimeter-Wave Gyrotron Traveling-Wave Tubes. Radiophysics and Quantum Electronics, 2016, 58, 769-776.	0.5	12
18	Ka-band resonant ring for testing components for a high-gradient linear accelerator. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 3152-3155.	4.6	11

#	ARTICLE	IF	CITATIONS
19	Gyro-TWTs with Helically Corrugated Waveguides: Overview of the Main Principles. , 2019, , .		11
20	Narrowing of the Emission Spectrum of a Gyrotron with External Reflections. Technical Physics Letters, 2018, 44, 221-224.	0.7	9
21	Transmission Line for 258 GHz Gyrotron DNP Spectrometry. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 823-837.	2.2	8
22	High-Power Ka-Band Transmission Line with a Frequency Bandwidth of 1 GHz. Radiophysics and Quantum Electronics, 2016, 58, 777-788.	0.5	8
23	Development of gyrotron traveling-wave tubes at IAP and GYCOM. EPJ Web of Conferences, 2017, 149, 04002.	0.3	7
24	CW Multifrequency <i>K</i> -Band Source Based on a Helical-Waveguide Gyro-TWT With Delayed Feedback. IEEE Transactions on Electron Devices, 2021, 68, 330-335.	3.0	7
25	Recent experiments and simulations on gyro-TWTs with helically corrugated waveguides. , 2016, , .		6
26	Quasi-Optical Orthomode Splitters for Input-Output of a Powerful $W$ -Band Gyro-TWT. IEEE Transactions on Electron Devices, 2018, 65, 4600-4606.	3.0	6
27	W-band helical-waveguide gyro-TWTs yielding high gain and high output power: Design and simulations. , 2017, , .		5
28	The project of W-band gyrotron at third cyclotron harmonic with an annular diaphragm. Results in Physics, 2018, 11, 158-161.	4.1	5
29	TE <sub>01</sub> -TEM <sub>00</sub> Quasi-Optical Mode Converter. Journal of Infrared, Millimeter and Terahertz Waves, 2000, 21, 187-192.	0.6	4
30	Study of Ka-band components for a future high-gradient linear accelerator. , 0, , .		4
31	Optimization of the frequency step tunable 105-170 GHz 1 MW gyrotron prototype. , 0, , .		4
32	Title is missing!. Journal of Infrared, Millimeter and Terahertz Waves, 2003, 24, 1677-1685.	0.6	4
33	Oversized $Ka$ -Band Traveling-Wave Window for a High-Power Transmission. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 4130-4135.	4.6	4
34	Influence of weak reflection from a nonresonant load on the operation frequency of the 28 GHz technological gyrotron. EPJ Web of Conferences, 2017, 149, 04037.	0.3	4
35	Design and test of new millimeter wave notch filter for plasma diagnostics. , 2008, , .		3
36	Experimental Demonstration of Gyrotron Frequency Stabilization by Resonant Reflection. IEEE Electron Device Letters, 2021, 42, 1077-1080.	3.9	3

#	ARTICLE	IF	CITATIONS
37	Waveguide Linear-to-Circular Polarization Converter With Cross Polarization Below $\hat{\sim}$ 40 dB Within 16% Band. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 2108-2114.	4.6	3
38	Resonant notch filters based on rectangular waveguide extensions. , 0, , .		2
39	Experimental investigation of powerful 0.67 THz gyrotron with a pulsed solenoid for remote detection of concealed radioactive materials. , 2012, , .		2
40	High-temperature microwave pyrolysis of peat as a method to obtaining liquid and gaseous fuels. EPJ Web of Conferences, 2017, 149, 02023.	0.3	2
41	Experiments on W-band High-Gain Helical-Waveguide Gyro-TWT. , 2019, , .		2
42	Metal reflectivity investigation at 110-200 GHz. , 0, , .		1
43	Efficient Broad Band HE11 Mode Exciter. Journal of Infrared, Millimeter and Terahertz Waves, 2002, 23, 1171-1178.	0.6	1
44	Transmission line for 258 GHz gyrotron DNP spectroscopy. , 2010, , .		1
45	Development of Ultrashort Pulse Generators based on Helical Gyro-TWT with Saturable Cyclotron Resonance Absorber in the Feedback Loop. , 2019, , .		1
46	Cold-Test of Transverse Input-Output Microwave Circuit Components for a High-Power W-Band Gyro-TWT. IEEE Electron Device Letters, 2021, 42, 98-101.	3.9	1
47	Microwave pyrolysis experimental study of peat. IzvestiĀ Vuzov: PrikladnaĀ HimiĀ I BiotehnologiĀ, 2019, 9, 750-758.	0.3	1
48	Properties of oversized corrugated waveguides at moderate diameter-wavelength ratio. , 0, , .		0
49	Development of the step tunable 140/110 GHz 1 MW gyrotron for fusion. , 0, , .		0
50	Experimental investigation of a system of input/output power flows separation for a broadband millimeter-wave gyro-TWT. , 2016, , .		0
51	Frequency control in subterahertz gyrotrons. EPJ Web of Conferences, 2018, 195, 01005.	0.3	0
52	Microwave pyrolysis of peat: simulations and experimental results. , 2018, , .		0
53	Wideband chaotic generation in K-band helical waveguide gyro-TWT with external reflections. , 2019, , .		0