A N Kuleshov

List of Publications by Year
in descending order

101 papers	486 citations	759233 12 h-index	713466 21 g-index
101 all docs	101 docs citations	101 times ranked	217 citing authors

#	Article	IF	Citations
1	Hybrid Bulk-Surface Modes Excited by a Sheet Electron Beam in THz Cherenkov Oscillator. IEEE Transactions on Electron Devices, 2022, 69, 3407-3412.	3.0	2
2	Efficient Excitation of Hybrid Modes in a THz Clinotron. Journal of Infrared, Millimeter, and Terahertz Waves, 2021, 42, 671-683.	2.2	11
3	Increase of Gyrotron Output Power at High-Order Axial Mode Through an After-Cavity Excitation of the Next Transverse Mode. Journal of Infrared, Millimeter, and Terahertz Waves, 2021, 42, 684-700.	2.2	1
4	Traveling-Wave Amplification in a Circuit With Nonuniform Grating. IEEE Transactions on Electron Devices, 2021, 68, 5232-5237.	3.0	5
5	Mode Interaction in Clinotron with Periodically Modified Grating. , 2021, , .		1
6	Effect of Grating Thermal Expansion on the THz Clinotron Operation. , 2021, , .		3
7	Development and Test of 175 GHz Clinotron Tube. , 2021, , .		4
8	Simulation and Design of 300 GHz CW Clinotron Oscillator on Hybrid Surface-Volume Modes. , 2021, , .		0
9	Influence of the Aftercavity Interaction on the Output Power of a Gyrotron Operating at a High-Order Axial Mode. , 2021, , .		0
10	Low-voltage Gyrotron as Simple Mm-Wave Source. , 2021, , .		0
11	Supply voltage control for guaranteed performance of compact terahertz vacuum electron devices. Review of Scientific Instruments, 2021, 92, 124704.	1.3	2
12	Low-Voltage Operation of the Double-Beam Gyrotron at 400 GHz. IEEE Transactions on Electron Devices, 2020, 67, 673-676.	3.0	10
13	Low-Voltage Adiabatic Magnetron Injection Gun for 400 GHz Gyrotron. , 2020, , .		0
14	Spectral Characteristics of THz CW Clinotrons. IEEE Transactions on Electron Devices, 2020, 67, 5766-5770.	3.0	6
15	THz Imaging System Based on Frequency-Tunable 140 GHz Clinotron and Quasi-Optical Antenna. , 2020, , .		0
16	THz Clinotron Operating in New Regime of Hybrid Surface-Volume Mode with Wide Frequency Tuning Range. , 2020, , .		1
17	Efficient Regime of Hybrid Surface-Radiating Waves in a THz Clinotron. , 2020, , .		1
18	An Experimental Investigation of a 0.8ÂTHz Double-Beam Gyrotron. Journal of Infrared, Millimeter, and Terahertz Waves, 2019, 40, 1114-1128.	2.2	14

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19	Application of Clinotron Scheme for THz Traveling-Wave-Tubes. , 2019, , .		0
20	Compact THz Continuous-Wave Clinotron Oscillators. , 2019, , .		1
21	Effect of Electron Beam Velocity Spread in a Clinotron. IEEE Transactions on Electron Devices, 2019, 66, 1540-1544.	3.0	2
22	Compact radiation module for THz spectroscopy using 300 GHz continuous-wave clinotron. Review of Scientific Instruments, 2019, 90, 034703.	1.3	14
23	An Experimental Investigation of a 0.8 THz Gyrotron with an Improved Mode Selection. , 2019, , .		0
24	THz Cherenkov Oscillator with Surface-Radiating Modes. , 2019, , .		1
25	Development of compact generator complexes based on terahertz clinotrons at O. Ya. Usikov IRE NAS of Ukraine. Radiofizika I Elektronika, 2019, 24, 33-48.	0.2	0
26	Numerical Simulation and Experimental Study of Sub-THz and THz CW Clinotron Oscillators. IEEE Transactions on Electron Devices, 2018, 65, 2177-2182.	3.0	20
27	Excitation of Hybrid Space-Surface Waves in Clinotrons with Non-uniform Grating. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 236-249.	2.2	18
28	Demonstration of a Mode Transformation Effect in 300-GHz CW Clinotron. , 2018, , .		1
29	Tracking Analysis of a Sheet Electron Beam for Clinotron Tube. , 2018, , .		3
30	Torch Discharge Active Resistance Determination Considering Its Equivalent Inductance. , 2018, , .		0
31	Effect of Mode Transformation in THz Clinotron. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 1055-1064.	2.2	13
32	Electron Beam Velocity Spread Effect on a Clinotron Operation. , 2018, , .		0
33	Simultaneous Stabilization of Gyrotron Frequency and Power by PID Double Feedback Control on the Acceleration and Anode Voltages. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 813-823.	2.2	8
34	A novel THz-band double-beam gyrotron for high-field DNP-NMR spectroscopy. Review of Scientific Instruments, 2017, 88, 094708.	1.3	57
35	Experimental study of a THz band double-beam gyrotron. , 2017, , .		4
36	HIGH FREQUENCY OHMIC LOSSES IN TERAHERTZ FREQUENCY RANGE CW KLYNOTRONS. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2017, 76, 929-940.	0.4	9

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37	High frequency ohmic losses in terahertz frequency range CW clinotrons. Radiofizika I Elektronika, 2017, 22, 68-76.	0.2	0
38	Development of compact CW clinotrons for DNP-NMR spectroscopy. , 2016, , .		4
39	Gyrotron output frequency and power stabilization by PID feedback control on the acceleration and anode voltages. , 2016, , .		0
40	Numerical simulation and experimental study of 130 GHz CW clinotron oscillator. , 2016, , .		1
41	Stabilizations of Gyrotron frequency and power by PID double feedback control on the acceleration and anode voltages. , 2016, , .		0
42	High power THz technologies opened by high frequency gyrations covering Sub-THz to THz region. , 2016, , .		0
43	Waveguide output for 130 GHz CW Clinotron. , 2016, , .		0
44	SIMULATION AND EXPERIMENTAL RESEARCH ON CW KLYNOTRON IN FREQUENCY RANGE 125-135 GHZ. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2016, 75, 1285-1297.	0.4	2
45	Simulation and experimental research on CW clinotron in frquency range 125â€¦135 GHz. Radiofizika I Elektronika, 2016, 21, 45-52.	0.2	0
46	Sub-THz CW clinotrons with multi-stage gratings. , 2015, , .		1
47	High-voltage power supply with optimal chatacteristics for sub-THz clinotrons. , 2015, , .		0
48	High speed frequency modulation of a 460 GHz gyrotron for application to the 700 MHz DNP enhanced NMR spectroscopy. , 2015, , .		1
49	Frequency-tunable gyrotron with two mirror cavity. , 2015, , .		0
50	High-Speed Frequency Modulation of a 460-GHz Gyrotron for Enhancement of 700-MHz DNP-NMR Spectroscopy. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 819-829.	2.2	28
51	The Development of 460 GHz gyrotrons for 700 MHz DNP-NMR spectroscopy. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 613-627.	2.2	47
52	Stabilization of Gyrotron Frequency by PID Feedback Control on the Acceleration Voltage. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 1157-1163.	2.2	25
53	TORCH DISCHARGE RESISTANCE AND FREQUENCY DEPENDENCE OF THE HF-SOURCE VOLTAGE REQUIRED TO SUSTAIN DISCHARGE. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz) Tj ETQq1 1 0.784314 rgBT /Ov	0.4	2
54	Sub-THz gyrotrons with special functions of frequency control for applications to DNP-NMR spectroscopy. , 2014, , .		3

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55	Gyrotron Output Power Stabilization by PID Feedback Control of Heater Current and Anode Voltage. Journal of Infrared, Millimeter, and Terahertz Waves, 2014, 35, 1018-1029.	2.2	26
56	The extension of the operation frequency range of the resonant BWOs by use of the multistage gratings. , 2014, , .		3
57	Torch discharge resistance. , 2014, , .		1
58	Gyrotron output power stabilization by PID feedback control of heater current and anode voltage. , 2014, , .		0
59	Power-Stabilization of High Frequency Gyrotrons Using a Double PID Feedback Control for Applications to High Power THz Spectroscopy. Journal of Infrared, Millimeter, and Terahertz Waves, 2014, 35, 159-168.	2.2	18
60	Excitation of the low-voltage CRM oscillations at the second harmonic of cyclotron frequency. , 2014, , .		0
61	Development of the 75-GHz planar gyrotron with transverse energy extraction. Journal of Communications Technology and Electronics, 2014, 59, 777-781.	0.5	5
62	Sub-THz CW clinotron oscillators with increased output power. , 2014, , .		3
63	Planar magnetron-injection gun for low-voltage quasi-optical gyrotron. , 2014, , .		0
64	DEVELOPMENT OF 94 GHZ BWO-KLYNOTRON WITH 3-STAGE GRATING. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2014, 73, 271-281.	0.4	12
65	DEVELOPMENT OF COMPACT MEDIUM POWER SOURCES OF ELECTROMAGNETIC RADIATION OF MILLIMETER AND SUBMILLIMETER WAVE RANGES. Telecommunications and Radio Engineering (English Translation of) Tj ETQq1 0.784314 rgBT		
66	Low-Voltage Cyclotron Resonance Maser. IEEE Transactions on Plasma Science, 2013, 41, 2475-2479.	1.3	10
67	Millimeter wave bwo-oscillator with multistage grating. , 2013, , .		1
68	400-GHz Continuous-Wave Clinotron Oscillator. IEEE Transactions on Plasma Science, 2013, 41, 82-86.	1.3	60
69	Optimization of a magnetron-injection gun for a planar gyrotron. , 2013, , .		0
70	Low-voltage planar cyclotron resonance maser based on a confocal cavity. , 2013, , .		0
71	Hybrid mode of surface-volume waves in BWO with nonuniform grating. , 2013, , .		0
72	Development of the planar low-voltage cyclotron resonance maser with a sheet helical electron beam. , 2013, , .		0

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73	On ohmic losses decrease in THz BWO-clinotron oscillators. , 2013, , .		1
74	Medium power compact sources of electromagnetic radiation in millimeter and sub-millimeter ranges. , 2013, , .		1
75	Development of CW clinotron oscillator at 400 GHz. , 2012, , .		0
76	Negative mass instability in low voltage Cyclotron Resonance Maser. , 2012, , .		0
77	INVESTIGATION OF A PLASMA FORMATION STRUCTURE BY THE DOPPLER RADAR METHOD. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2012, 71, 251-258.	0.4	0
78	TRANSITION RADIATION EXCITED BY ELECTRON BUNCHES ON A WIRE SCREEN IN THE MILLIMETER WAVE RANGE. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 537	0.4	0
79	Long-Living Plasma Excited by Electric Discharge in Water. IEEE Transactions on Plasma Science, 2011, 39, 2648-2649.	1.3	2
80	Research Results and Applications of Torch Discharge in the Goubau Line. IEEE Transactions on Plasma Science, 2011, 39, 2878-2879.	1.3	5
81	EXCITATION OF MW TORCH DISCHARGE AT THE EDGE OF SINGLEÐƒ]CONDUCTOR LINE. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2011, 70, 439-451.	0.4	1
82	Doppler radar method for gas-discharge plasma research. , 2010, , .		0
83	Doppler radar method for plasma structure investigation. , 2010, , .		0
84	Theoretical and experimental investigation of transition radiation excited by electron bunches in microwaves. , 2010, , .		0
85	Excitation and observation of ball-lightning type spherical formations. , 2008, , .		0
86	The properties of microwave discharge in the Goubau line. High Temperature, 2008, 46, 874-880.	1.0	3
87	Investigation of microwave energy propagation character along single-conductor line. , 2008, , .		0
88	Properties of microwave discharge in Goubau transmission line. , 2007, , .		0
89	Adiabatic Magnetron Injection Gun for Low-Voltage Gyrotron. , 2007, , .		2
90	The Design and Characteristics of Low-Voltage Adiabatic Magnetron-Ingection Gun. , 2007, , .		0

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91	Microvawe Discharge Properties in Goubau Line. , 2007, , .		0
92	Universal Laboratory Magnetic System for Microwave Devices. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2007, 66, 1381-1387.	0.4	0
93	Microwave Radiation from Electric Discharge in Water Medium with Impurities. , 2006, , .		1
94	On Conditions of Long-Living Electron Bunch Excitation in Undulator. , 2006, , .		0
95	Radiating Properties of Weak Electrolytes in Electric Discharge Field. , 2006, , .		0
96	Experimental Research on Discharge Processes in Water Solution with Impurities. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2006, 65, 341-349.	0.4	0
97	Radiating properties of weak electrolytes in electrical discharge field. , 2005, , .		0
98	Experimental Investigation into Spherical Plasma Formations. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2005, 64, 833-839.	0.4	5
99	On Possible Mechanism of Spontaneous Radiation from Non-Relativistic Free Electron Beam in the Motz Undulator. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and) Tj ETQq1 1 0.784314 rgBT /Ov	0.4	0
100	Electron Trajectories in Magnetic Field of MPFS with Varying Longitudinal Component. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2003, 59, 152-160.	0.4	0
101	Forming and Transportation of an Electron Bunch in the Undulator. , 0, , .		0