

I V Bandurkin

List of Publications by Year in Descending Order

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

39
papers

359
citations

12
h-index

17
g-index

69
ext. papers

556
ext. citations

2
avg, IF

3.63
L-index

#	Paper	IF	Citations
39	Single-Cavity Gyromultipliers With Asymmetric Electron Beams. <i>IEEE Transactions on Electron Devices</i> , 2022 , 69, 353-357	2.9	
38	Frequency-Tunable Second Harmonic Gyrotron With Selective Cavity: Design and Simulations. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-7	2.9	0
37	Terahertz-frequency-range large-orbit-gyrotrons for physical applications 2021 ,		1
36	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	
35	Mode Selective Azimuthally Asymmetric Cavity for Terahertz Gyrotrons. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 347-352	2.9	2
34	High-Power Pulsed Terahertz-Wave Large-Orbit Gyrotron for a Promising Source of Extreme Ultraviolet Radiation. <i>Radiophysics and Quantum Electronics</i> , 2020 , 63, 354-362	0.7	3
33	. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 673-676	2.9	5
32	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
31	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
30	Double-Beam Gyrotron With Frequency Multiplication. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 2396-2400	2.9	4
29	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
28	High-Harmonic Gyrotrons with Axis-Encircling Electron Beams at IAP RAS. <i>Radiophysics and Quantum Electronics</i> , 2019 , 62, 513-519	0.7	2
27	Experimental demonstration of free electron maser operation in the regime of non-resonant trapping. <i>Applied Physics Letters</i> , 2019 , 115, 163501	3.4	5
26	CW subterahertz gyrotron operating at high cyclotron harmonics. <i>ITM Web of Conferences</i> , 2019 , 30, 09001	0.1	
25	Spontaneous super-radiative cascade undulator emission from short dense electron bunches. <i>Physics of Plasmas</i> , 2019 , 26, 113105	2.1	9
24	Terahertz Large-Orbit High-Harmonic Gyrotrons at IAP RAS: Recent Experiments and New Designs. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 2287-2293	2.9	40
23	Terahertz Undulator Radiation of Stabilized Dense Electron Beams. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2018 , 82, 1587-1591	0.4	0

22	Terahertz Gyrotrons at High Cyclotron Harmonics with Irregular Electrodynamic Systems. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2018 , 82, 1582-1586	0.4	
21	Self-compression of dense photo-injector electron bunches. <i>Journal of Physics: Conference Series</i> , 2018 , 1135, 012018	0.3	2
20	High-power broadband 30-GHz FEM amplifier operated in the grazing incident regime. <i>Applied Physics Letters</i> , 2017 , 110, 013501	3.4	8
19	Simulations of Sectioned Cavity for High-Harmonic Gyrotron. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 300-305	2.9	24
18	Super-radiative self-compression of photo-injector electron bunches. <i>Applied Physics Letters</i> , 2017 , 110, 263508	3.4	18
17	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
16	Terahertz large-orbit high-harmonic gyrotrons at IAP RAS: Recent experiments and new designs 2017 ,		1
15	Compression of a photoinjector electron bunch in the negative-mass undulator. <i>Physical Review Accelerators and Beams</i> , 2017 , 20,	1.8	15
14	Gyrotron with a sectioned cavity based on excitation of a far-from-cutoff operating mode. <i>Physics of Plasmas</i> , 2016 , 23, 013113	2.1	19
13	Modeling of a High-Power Wideband Free-Electron Maser Amplifier with an Operating Frequency of 30 GHz to be Used in Particle Acceleration Experiments. <i>Radiophysics and Quantum Electronics</i> , 2016 , 58, 607-614	0.7	7
12	Negative-mass mitigation of Coulomb repulsion for terahertz undulator radiation of electron bunches. <i>Applied Physics Letters</i> , 2015 , 107, 163505	3.4	31
11	Klystron-like cavity with mode transformation for high-harmonic terahertz gyrotrons. <i>Physics of Plasmas</i> , 2013 , 20, 014503	2.1	21
10	High-power free-electron maser with frequency multiplication operating in a shortwave part of the millimeter wave range. <i>Technical Physics Letters</i> , 2012 , 38, 759-763	0.7	1
9	Numerical simulations of a co-harmonic gyrotron. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 065105	3	4
8	High-harmonic gyrotron with sectioned cavity. <i>Physics of Plasmas</i> , 2010 , 17, 073101	2.1	35
7	Progress in studying a self-excited gyromultiplier 2009 ,		1
6	Experimental study of a fourth-harmonic gyromultiplier. <i>Physics of Plasmas</i> , 2009 , 16, 070701	2.1	25
5	Terahertz high-harmonic gyrotrons and gyro-multipliers 2008 ,		2

4	Suppressing electron bunching at low harmonics in gyromultipliers of the klystron type. <i>Technical Physics Letters</i> , 2007 , 33, 795-798	0.7	2
3	Sources of Coherent Terahertz Radiation. <i>AIP Conference Proceedings</i> , 2006 ,	0	17
2	Frequency multiplication in gyrotron autooscillators. <i>Technical Physics Letters</i> , 2006 , 32, 84-87	0.7	8
1	Cyclotron resonance maser operating in a nonresonant electron bunching regime. <i>Technical Physics Letters</i> , 2006 , 32, 6-9	0.7	1