I V Bandurkin

List of Publications by Citations

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	Terahertz Large-Orbit High-Harmonic Gyrotrons at IAP RAS: Recent Experiments and New Designs. *IEEE Transactions on Electron Devices*, **2018**, 65, 2287-2293	2.9	40
38	High-harmonic gyrotron with sectioned cavity. *Physics of Plasmas*, **2010**, 17, 073101	2.1	35
37	Negative-mass mitigation of Coulomb repulsion for terahertz undulator radiation of electron bunches. *Applied Physics Letters*, **2015**, 107, 163505	3.4	31
36	Experimental study of a fourth-harmonic gyromultiplier. *Physics of Plasmas*, **2009**, 16, 070701	2.1	25
35	Simulations of Sectioned Cavity for High-Harmonic Gyrotron. *IEEE Transactions on Electron Devices*, **2017**, 64, 300-305	2.9	24
34	Klystron-like cavity with mode transformation for high-harmonic terahertz gyrotrons. *Physics of Plasmas*, **2013**, 20, 014503	2.1	21
33	Gyrotron with a sectioned cavity based on excitation of a far-from-cutoff operating mode. *Physics of Plasmas*, **2016**, 23, 013113	2.1	19
32	Method of Providing the High Cyclotron Harmonic Operation Selectivity in a Gyrotron With a Spatially Developed Operating Mode. *IEEE Transactions on Electron Devices*, **2017**, 64, 3893-3897	2.9	19
31	Super-radiative self-compression of photo-injector electron bunches. *Applied Physics Letters*, **2017**, 110, 263508	3.4	18
30	Sources of Coherent Terahertz Radiation. *AIP Conference Proceedings*, **2006**,	0	17
29	Compression of a photoinjector electron bunch in the negative-mass undulator. *Physical Review Accelerators and Beams*, **2017**, 20,	1.8	15
28	Demonstration of a Selective Oversized Cavity in a Terahertz Second-Harmonic Gyrotron. *IEEE Electron Device Letters*, **2020**, 41, 1412-1415	4.4	12
27	Spontaneous super-radiative cascade undulator emission from short dense electron bunches. *Physics of Plasmas*, **2019**, 26, 113105	2.1	9
26	High-power broadband 30-GHz FEM amplifier operated in the grazing incident regime. *Applied Physics Letters*, **2017**, 110, 013501	3.4	8
25	Frequency multiplication in gyrotron autooscillators. *Technical Physics Letters*, **2006**, 32, 84-87	0.7	8
24	Development of Third-Harmonic 1.2-THz Gyrotron With Intentionally Increased Velocity Spread of Electrons. *IEEE Transactions on Electron Devices*, **2020**, 67, 4432-4436	2.9	8
23	Modeling of a High-Power Wideband Free-Electron Maser Amplifier with an Operating Frequency of 30 GHz to be Used in Particle Acceleration Experiments. *Radiophysics and Quantum Electronics*, **2016**, 58, 607-614	0.7	7

22	An Experimental Investigation of a 0.8 THz Double-Beam Gyrotron. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2019**, 40, 1114-1128	2.2	7
21	. *IEEE Transactions on Electron Devices*, **2020**, 67, 673-676	2.9	5
20	Experimental demonstration of free electron maser operation in the regime of non-resonant trapping. *Applied Physics Letters*, **2019**, 115, 163501	3.4	5
19	Double-Beam Gyrotron With Frequency Multiplication. *IEEE Transactions on Electron Devices*, **2019**, 66, 2396-2400	2.9	4
18	Numerical simulations of a co-harmonic gyrotron. *Journal Physics D: Applied Physics*, **2012**, 45, 065105	3	4
17	High-Power Pulsed Terahertz-Wave Large-Orbit Gyrotron for a Promising Source of Extreme Ultraviolet Radiation. *Radiophysics and Quantum Electronics*, **2020**, 63, 354-362	0.7	3
16	Terahertz high-harmonic gyrotrons and gyro-multipliers **2008**,		2
15	Suppressing electron bunching at low harmonics in gyromultipliers of the klystron type. *Technical Physics Letters*, **2007**, 33, 795-798	0.7	2
14	High-Harmonic Gyrotrons with Axis-Encircling Electron Beams at IAP RAS. *Radiophysics and Quantum Electronics*, **2019**, 62, 513-519	0.7	2
13	Self-compression of dense photo-injector electron bunches. *Journal of Physics: Conference Series*, **2018**, 1135, 012018	0.3	2
12	Mode Selective Azimuthally Asymmetric Cavity for Terahertz Gyrotrons. *IEEE Transactions on Electron Devices*, **2021**, 68, 347-352	2.9	2
11	Terahertz large-orbit high-harmonic gyrotrons at IAP RAS: Recent experiments and new designs **2017**,		1
10	High-power free-electron maser with frequency multiplication operating in a shortwave part of the millimeter wave range. *Technical Physics Letters*, **2012**, 38, 759-763	0.7	1
9	Progress in studying a self-excited gyromultiplier **2009**,		1
8	Cyclotron resonance maser operating in a nonresonant electron bunching regime. *Technical Physics Letters*, **2006**, 32, 6-9	0.7	1
7	Terahertz-frequency-range large-orbit-gyrotrons for physical applications **2021**,		1
6	Frequency-Tunable Second Harmonic Gyrotron With Selective Cavity: Design and Simulations. *IEEE Transactions on Electron Devices*, **2022**, 1-7	2.9	0
5	Terahertz Undulator Radiation of Stabilized Dense Electron Beams. *Bulletin of the Russian Academy of Sciences: Physics*, **2018**, 82, 1587-1591	0.4	0

4	Single-Cavity Gyromultipliers With Asymmetric Electron Beams. *IEEE Transactions on Electron Devices*, **2022**, 69, 353-357	2.9
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
2	CW subterahertz gyrotron operating at high cyclotron harmonics. *ITM Web of Conferences*, **2019**, 30, 09001	0.1
1	Terahertz Gyrotrons at High Cyclotron Harmonics with Irregular Electrodynamic Systems. *Bulletin of the Russian Academy of Sciences: Physics*, **2018**, 82, 1582-1586	0.4