Andrei V Savilov

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172 1,121 20 25 g-index

237 1,524 1.7 4.67 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
172	Moderately relativistic high-harmonic gyrotrons for millimeter/submillimeter wavelength band. <i>IEEE Transactions on Plasma Science</i> , 1999 , 27, 456-461	1.3	70
171	Terahertz Gyrotrons at IAP RAS: Status and New Designs. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011 , 32, 371-379	2.2	44
170	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
169	High-harmonic gyrotron with sectioned cavity. <i>Physics of Plasmas</i> , 2010 , 17, 073101	2.1	35
168	Negative-mass mitigation of Coulomb repulsion for terahertz undulator radiation of electron bunches. <i>Applied Physics Letters</i> , 2015 , 107, 163505	3.4	31
167	Experimental Realization of the High-Harmonic Gyrotron Oscillator With a Klystron-Like Sectioned Cavity. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 2356-2359	2.9	28
166	Compression of complicated rf pulses produced from the super-radiant backward-wave oscillator. <i>Applied Physics Letters</i> , 2010 , 97, 093501	3.4	25
165	Experimental study of a fourth-harmonic gyromultiplier. <i>Physics of Plasmas</i> , 2009 , 16, 070701	2.1	25
164	Cyclotron resonance maser with a tapered magnetic field in the regime of "nonresonant" trapping of the electron beam. <i>Physical Review E</i> , 2001 , 64, 066501	2.4	25
163	Simulations of Sectioned Cavity for High-Harmonic Gyrotron. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 300-305	2.9	24
162	On the theory of frequency-quadrupling gyroklystrons. <i>Physics of Plasmas</i> , 2007 , 14, 053113	2.1	23
161	Effective coupling of cyclotron autoresonance maser and "gyrotron" modes on a phase-synchronized electron beam. <i>Physical Review E</i> , 2000 , 62, 4207-15	2.4	23
160	Phase mixing bf bunches and decrease of negative-mass instability increments in cyclotron resonance masers. <i>Physics of Plasmas</i> , 1995 , 2, 557-564	2.1	23
159	High-harmonic gyrotron with sectioned cavity. <i>Applied Physics Letters</i> , 2009 , 95, 073503	3.4	22
158	Klystron-like cavity with mode transformation for high-harmonic terahertz gyrotrons. <i>Physics of Plasmas</i> , 2013 , 20, 014503	2.1	21
157	Dynamics of excitation of backward waves in long inhomogeneous systems. <i>Physics of Plasmas</i> , 2007 , 14, 113104	2.1	21
156	High-power electrostatic free-electron maser as a future source for fusion plasma heating: experiments in the short-pulse regime. <i>Physical Review E</i> , 1999 , 59, 6058-63	2.4	21

155	Possibilities for Continuous Frequency Tuning in Terahertz Gyrotrons with Nontunable Electrodynamic Systems. <i>Radiophysics and Quantum Electronics</i> , 2016 , 58, 660-672	0.7	21	
154	Flying radio frequency undulator. <i>Applied Physics Letters</i> , 2014 , 105, 033504	3.4	20	
153	Competition of longitudinal modes and the scenario of single-mode regime build-up for the FOM-Fusion-FEM project. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995 , 358, 182-185	1.2	20	
152	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	
151	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	
150	Generation of ultra-short quasi-unipolar electromagnetic pulses from quasi-planar electron bunches. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001 , 475, 436-440	1.2	19	
149	Super-radiative self-compression of photo-injector electron bunches. <i>Applied Physics Letters</i> , 2017 , 110, 263508	3.4	18	
148	Sources of Coherent Terahertz Radiation. AIP Conference Proceedings, 2006,	Ο	17	
147	Regime of non-resonant trapping in an FEM-amplifier. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> 2003 , 507, 158-16	51 ^{1.2}	17	
146	Simulations of the build-up of transverse and longitudinal structures of the microwave field in the Fusion FEM. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998 , 407, 40-44	1.2	16	
145	Negative-mass instability in magnetron-injection guns. <i>Physics of Plasmas</i> , 1997 , 4, 2276-2284	2.1	15	
144	To the problem of energy recuperation in gyrotrons. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1995 , 16, 459-471		15	
143	Compression of a photoinjector electron bunch in the negative-mass undulator. <i>Physical Review Accelerators and Beams</i> , 2017 , 20,	1.8	15	
142	A method for suppression of spurious fundamental-harmonic waves in gyrotrons operating at the second cyclotron harmonic. <i>Physics of Plasmas</i> , 2016 , 23, 053116	2.1	14	
141	Q-switching in the electron backward-wave oscillator. <i>Physics of Plasmas</i> , 2011 , 18, 103102	2.1	13	
140	Stability of frequency-multiplying harmonic gyroklystrons. <i>Physics of Plasmas</i> , 2008 , 15, 013112	2.1	13	
139	Peculiarities of the coherent spontaneous synchrotron radiation of dense electron bunches. <i>Physics of Plasmas</i> , 2014 , 21, 023103	2.1	12	
138	Cyclotron-undulator cooling of a free-electron-laser beam. <i>Applied Physics Letters</i> , 2014 , 105, 073503	3.4	12	

137	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
136	Recovery of electron energy in cyclotron autoresonance masers. <i>Physics of Plasmas</i> , 1997 , 4, 2285-2291	2.1	11
135	Effective Co-generation of opposite and forward waves in cyclotron-resonance masers. <i>Physical Review Letters</i> , 2000 , 85, 3424-7	7.4	11
134	Regime of hulti-stage Trapping in electron masers. <i>Physics of Plasmas</i> , 2018 , 25, 113114	2.1	11
133	Super-radiant backward-wave oscillators with enhanced power conversion. <i>Physics of Plasmas</i> , 2013 , 20, 024501	2.1	10
132	First mm-wave generation in the FOM free electron maser. <i>IEEE Transactions on Plasma Science</i> , 1999 , 27, 1084-1091	1.3	10
131	Spontaneous super-radiative cascade undulator emission from short dense electron bunches. <i>Physics of Plasmas</i> , 2019 , 26, 113105	2.1	9
130	Stability of Excitation of Traveling Waves in Gyrotrons With Low-Relativistic Electron Beams. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 4693-4699	2.9	8
129	Frequency multiplication in gyrotron autooscillators. <i>Technical Physics Letters</i> , 2006 , 32, 84-87	0.7	8
128	Space charge effects as a source of electron energy spread and efficiency degradation in gyrotrons. <i>IEEE Transactions on Plasma Science</i> , 2000 , 28, 633-637	1.3	8
127	Account of the feedback frequency dispersion in spatio-temporal equations of a free-electron laser. <i>Optics Communications</i> , 1996 , 123, 133-138	2	8
126	Traditional vs. advanced Bragg reflectors for oversized circular waveguide. <i>Fusion Engineering and Design</i> , 2017 , 123, 477-480	1.7	7
125	Super-radiant effects in electron oscillators with near-cutoff operating waves. <i>Physics of Plasmas</i> , 2015 , 22, 063113	2.1	7
124	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
123	Super-radiant Cherenkov backward-wave oscillator with cyclotron absorption. <i>Applied Physics Letters</i> , 2011 , 99, 193506	3.4	6
122	Nonresonant excitation and nonlinear suppression of parasitic transverse modes in free-electron masers. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1993 , 14, 2119-2130		6
121	Use of Quasiregular Resonator Cavities with Short Phase Correctors in Gyrotrons Operated at Higher Cyclotron Harmonics. <i>Radiophysics and Quantum Electronics</i> , 2017 , 59, 655-666	0.7	5
120	Electron rf Oscillator Based on Self-Excitation of a Talbot-Type Supermode in an Oversized Cavity. <i>Physical Review Applied</i> , 2019 , 12,	4.3	5

119	Cyclotron frequency multiplication in Cherenkov backward-wave oscillators. <i>Physics of Plasmas</i> , 2009 , 16, 063103	2.1	5
118	Submillimeter moderately relativistic free-electron maser. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003 , 507, 162-165	1.2	5
117	Optimal parameters of gyrotrons with weak electron-wave interaction. <i>Physics of Plasmas</i> , 2016 , 23, 093	3108	5
116	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
115	Double-Beam Gyrotron With Frequency Multiplication. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 2396-2400	2.9	4
114	Spontaneous coherent cyclotron THz super-radiation from a short dense photo-injector electron bunch. <i>EPJ Web of Conferences</i> , 2017 , 149, 05019	0.3	4
113	Multi-pulse operation of a super-radiant backward-wave oscillator. <i>Physics of Plasmas</i> , 2014 , 21, 084501	2.1	4
112	Numerical simulations of a co-harmonic gyrotron. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 065105	3	4
111	Electron energy recuperation in gyrodevices. <i>Physics of Plasmas</i> , 2008 , 15, 073104	2.1	4
110	A high power, tunable free electron maser for fusion. <i>Fusion Engineering and Design</i> , 2001 , 53, 423-430	1.7	4
109	FEM with guiding magnetic field based on simultaneous fundamental and high-harmonic oscillations. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000 , 445, 284-289	1.2	4
108	A gyrodevice based on simultaneous excitation of opposite and forward waves (Gyrotron BWO-TWT). <i>IEEE Transactions on Plasma Science</i> , 2000 , 28, 1742-1746	1.3	4
107	First lasing of the Dutch Fusion-FEM: 730 kW, 200 GHz. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999 , 429, 12-16	1.2	4
106	On the feasibility of a pulsed gyrotron with a peak rf power exceeding the power of the operating electron beam. <i>Applied Physics Letters</i> , 2017 , 111, 073504	3.4	3
105	Regime of nonresonant trapping in a CARM oscillator. <i>IEEE Transactions on Plasma Science</i> , 2004 , 32, 929-933	1.3	3
104	Electron bunching at the doubled frequency of the input wave and the use of this effect in klystron-type frequency multiplicators. <i>IEEE Transactions on Plasma Science</i> , 2004 , 32, 1147-1151	1.3	3
103	Mode dynamics in a free electron maser with broadband frequency-dispersive feedback. <i>Physics of Plasmas</i> , 2001 , 8, 638-642	2.1	3
102	CARM-amplifier in the regime of "nonresonant" trapping of the electron beam. <i>IEEE Transactions on Plasma Science</i> , 2002 , 30, 927-930	1.3	3

101	The spread of the initial energy of electrons in a gyrotron due to the negative-mass instability developing in a magnetron-injector gun. <i>Technical Physics</i> , 2000 , 45, 470-475	0.5	3
100	Stabilization of spatio-temporal dynamics of free-electron laser operation under effect of spread in electron velocity. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999 , 429, 65-69	1.2	3
99	Improvement of Mode Selectivity of High-Harmonic Gyrotrons by Using Operating Cavities with Short Output Reflectors. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2018 , 39, 595-613	2.2	3
98	The regime of multi-stage trapping in free-electron lasers operating in the super-radiant and SASE regimes. <i>Physics of Plasmas</i> , 2020 , 27, 063103	2.1	2
97	The reflex gyrotron. <i>Physics of Plasmas</i> , 2012 , 19, 024505	2.1	2
96	The multi-mode gyrotron. <i>Physics of Plasmas</i> , 2011 , 18, 104502	2.1	2
95	Regime of trapping and adiabatic deceleration of electrons in a sectioned electron RF generator. <i>IEEE Transactions on Plasma Science</i> , 1998 , 26, 36-40	1.3	2
94	LF-mode excitation in FEL caused by stimulated scattering of operating HF-mode. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998 , 407, 102-106	1.2	2
93	Terahertz high-harmonic gyrotrons and gyro-multipliers 2008,		2
92	Suppressing electron bunching at low harmonics in gyromultipliers of the klystron type. <i>Technical Physics Letters</i> , 2007 , 33, 795-798	0.7	2
91	High-harmonic electron bunching in the field of a signal wave and the use of this effect in cyclotron masers with frequency multiplication. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2005 , 8,		2
90	New Schemes of High-harmonic Gyro-devices with Frequency Multiplication 2006,		2
89	Spontaneous coherent cyclotron emission from a short laser-kicked electron buncn. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 528, 562-565	1.2	2
88	A free-electron amplifier in the regime of non-resonant trapping. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> 2002 , 483, 200-204	1.2	2
87	First lasing of the Dutch fusion-FEM in the long-pulse configuration. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002 , 483, 259-262	1.2	2
86	Cooperation of traveling and quasi-cutoff waves in a cyclotron-resonance maser. <i>Technical Physics</i> , 2001 , 46, 1001-1008	0.5	2
85	Experimental study of CRM with simultaneous excitation of traveling and near-cutoff waves (CARM-gyrotron). <i>IEEE Transactions on Plasma Science</i> , 2001 , 29, 609-612	1.3	2
84	Stimulated wave scattering in the Smith-Purcell FEL. <i>IEEE Transactions on Plasma Science</i> , 2001 , 29, 820)-823	2

(2015-1999)

83	Temporal dynamics of fusion-FEM oscillations: comparison of experiment and simulations. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999 , 429, 46-51	1.2	2
82	Problems of autobunching and phase stability for the TBA-driver: calculations and design for a modeling experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> 1995 , 358, 528-531	1.2	2
81	Belf-trappinglbf the pre-bunched electron beam in a discrete system of isolated cells of the TBA-driver. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996 , 372, 539-542	1.2	2
80	Negative-mass instability at nonsymmetrical perturbations. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1994 , 15, 1819-1828		2
79	Generation of Super-Radiance rf Pulses in a Sectioned Backward-Wave Oscillator. <i>The Open Plasma Physics Journal</i> , 2009 , 2, 165-170		2
78	Competition of Oscillations at Different Cyclotron Harmonics in the Subterahertz Large-Orbit Gyrotron. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 3795-3801	2.9	2
77	Powerful broadband FEM-amplifier operating over Ka frequency range 2016,		2
76	Microwave Undulators and Electron Generators for New-Generation Free-Electron Lasers. <i>Radiophysics and Quantum Electronics</i> , 2016 , 58, 755-768	0.7	2
75	High-Harmonic Gyrotrons with Axis-Encircling Electron Beams at IAP RAS. <i>Radiophysics and Quantum Electronics</i> , 2019 , 62, 513-519	0.7	2
74	Pumping Systems for Compton Free-Electron Lasers: Microwave Undulators and Powering Sources. <i>Radiophysics and Quantum Electronics</i> , 2019 , 62, 520-527	0.7	2
73	Powerful Relativistic Oscillators of THz-band based on Excitation of Talbot-type Supermode in an Oversized Cavity 2019 ,		2
7 2	A Compact THz Source for Enhancing the Sensitivity of Nuclear Magnetic Resonance Spectroscopy with Dynamic Nuclear Polarization. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2018 , 82, 1592-1	15945	2
71	Terahertz Large-Orbit High-Harmonic Gyrotrons at IAP RAS Features 2018,		2
70	High-Power Ultra-Wideband Operation of the JINR-IAP FEM-Amplifier 2018,		2
69	Self-compression of dense photo-injector electron bunches. <i>Journal of Physics: Conference Series</i> , 2018 , 1135, 012018	0.3	2
68	Mode Selective Azimuthally Asymmetric Cavity for Terahertz Gyrotrons. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 347-352	2.9	2
67	1.2 THz Second Harmonic Gyrotron with Selective Groove 2019 ,		1
66	Two-wave regime of operation of the high-harmonic gyrotron. <i>Physics of Plasmas</i> , 2015 , 22, 043104	2.1	1

65	Frequency Tuning in the Gyrotron Oscillator With a Klystronlike Sectioned Cavity. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 3393-3398	2.9	1
64	On applicability of absorbing rectilinear electron beams in high-frequency gyrotrons operating at cyclotron harmonics. <i>Physics of Plasmas</i> , 2020 , 27, 064501	2.1	1
63	Relativistic Second-Harmonic Gyrotron With a Selective Quasi-Regular Cavity. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 4968-4974	2.9	1
62	Testing of RF source and microwave components of the millimeter-wavelength flying RF undulators 2016 ,		1
61	Development of a High-Power Wideband Amplifier on the Basis of a Free-Electron Maser Having an Operating Frequency Near 30 GHz: Modeling and Results of the Initial Experiments. <i>Radiophysics and Quantum Electronics</i> , 2017 , 59, 674-681	0.7	1
60	Terahertz large-orbit high-harmonic gyrotrons at IAP RAS: Recent experiments and new designs 2017 ,		1
59	High-harmonic large orbit gyrotrons in IAP RAS 2015 ,		1
58	Project of powerful broadband FEM-amplifier of 30 GHz frequency range 2015 ,		1
57	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
56	Parametric phase locking in an electron rf oscillator. <i>Physical Review Letters</i> , 2013 , 110, 174801	7.4	1
55	Progress in studying a self-excited gyromultiplier 2009 ,		1
54	RF Space-Charge Effects in CRM with Arbitrary Phase Velocity of the Operating Wave. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1998 , 19, 939-956		1
53	Progress in development of powerful sub-mm Bragg FEM based on moderately relativistic electron beam 2006 ,		1
52	Cyclotron resonance maser operating in a nonresonant electron bunching regime. <i>Technical Physics Letters</i> , 2006 , 32, 6-9	0.7	1
51	Gyrodevices with Axis-Encircling Electron Beams. AIP Conference Proceedings, 2003,	Ο	1
50	Spatiotemporal dynamics of a free electron maser oscillator with broadband feedback and klystronlike interaction region. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2005 , 8,		1
49	A follow-up of the FOM fusion FEM for 1 MW, 1 s. Fusion Engineering and Design, 2001, 53, 577-586	1.7	1
48	Theoretical explanation and experimental observation of effective cyclotron coupling of traveling and near-cutoff modes on a phase-synchronized electron beam. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> 2000 ,	1.2	1

(2018-2000)

47	Spurious excitation of near-cutoff modes in free-electron masers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> 2000 , 445, 1-6	1.2	1
46	Parasitic excitation of fundamental-cyclotron-harmonic waves in high-harmonic gyrotrons. <i>Physics of Plasmas</i> , 2021 , 28, 113105	2.1	1
45	Spurious Fundamental-Harmonic Oscillations in the Horn Section of a High-Harmonic Gyrotron. <i>IEEE Transactions on Electron Devices</i> , 2022 , 69, 325-332	2.9	1
44	Terahertz-frequency-range large-orbit-gyrotrons for physical applications 2021,		1
43	Prospects of realization of powerful sub-millimeter relativistic cyclotron masers 2016,		1
42	Experimental Study of a Gyrotron with a Sectioned Klystron-Type Cavity Operated at Higher Cyclotron Harmonics. <i>Radiophysics and Quantum Electronics</i> , 2016 , 58, 694-700	0.7	1
41	Powerful 1 THz Third-Harmonic Gyrotron for Plasma Applications 2019 ,		1
40	High-harmonic gyrotrons with irregular microwave systems. <i>EPJ Web of Conferences</i> , 2018 , 195, 01015	0.3	1
39	Stable Excitation of Higher Axial Modes in the Traveling-Wave-Tube Regime in Gyrotron Cavities With Additional Loss Elements. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 4717-4722	2.9	1
38	Amplification of a slipping quasi-monochromatic wave pulse by an electron flow with a wide velocity spread. <i>Physics of Plasmas</i> , 2021 , 28, 093303	2.1	1
37	Coherent super-radiative undulator emission of ultra-short THz wave pulses. <i>Physics of Plasmas</i> , 2021 , 28, 093302	2.1	1
36	Free-electron RF-pulse compressor. <i>Physical Review Letters</i> , 2002 , 88, 064801	7.4	О
35	Frequency-Tunable Second Harmonic Gyrotron With Selective Cavity: Design and Simulations. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-7	2.9	О
34	Simulations of the build-up of transverse and longitudinal structures of the microwave field in the Fusion FEM 1998 , 40-44		О
33	Supermodes of oversized Talbot-type cavities. <i>Journal of Applied Physics</i> , 2020 , 128, 114502	2.5	О
32	Formations of a giant funning pulse in the process of a quasi-regular amplification of a long wave signal by a slipping electron bunch. <i>Physics of Plasmas</i> , 2020 , 27, 104502	2.1	О
31	On the voltagedurrent optimization in high-harmonic gyrotrons. <i>Physics of Plasmas</i> , 2021 , 28, 054504	2.1	О
30	Terahertz Undulator Radiation of Stabilized Dense Electron Beams. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2018 , 82, 1587-1591	0.4	О

29	Development of powerful Ka-band FEM-amplifiers with broad frequency tuning. <i>EPJ Web of Conferences</i> , 2017 , 149, 04011	0.3
28	Terahertz gyrotrons with quasi-regular cavities. <i>EPJ Web of Conferences</i> , 2017 , 149, 05018	0.3
27	Coherent spontaneous THz undulator radiation from dense electron bunches formed in laser-driven photo-injectors. <i>EPJ Web of Conferences</i> , 2017 , 149, 05002	0.3
26	Electron cyclotron maser based on the combination two-wave resonance. <i>Journal of Applied Physics</i> , 2012 , 112, 094509	2.5
25	New opportunity of efficiency enhancement for FEL-oscillators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998 , 407, 480-484	1.2
24	Regime of non-resonant trapping in a Bragg-cavity FEM oscillator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 528, 67-70	1.2
23	Free-electron RF compressor. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> 2002 , 483, 466-469	1.2
22	Effect of the drift gap between the undulator sections on the operation of the Fusion-FEM. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000 , 445, 187-191	1.2
21	Velocity separation in electron beam by static electromagnetic field of helical symmetry. <i>IEEE Transactions on Plasma Science</i> , 1999 , 27, 470-473	1.3
20	Generation in the regime with three resonance frequencies. <i>Journal of Physics: Conference Series</i> , 2021 , 2103, 012060	0.3
19	Single-Cavity Gyromultipliers With Asymmetric Electron Beams. <i>IEEE Transactions on Electron Devices</i> , 2022 , 69, 353-357	2.9
18	Universal Subterahertz Large-Orbit Gyrotron: Operation at the Second and Third Cyclotron Harmonics. <i>Radiophysics and Quantum Electronics</i> , 2020 , 63, 321-331	0.7
17	Sources of Powerful Terahertz Radiation Based on Coherent Spontaneous Emission from Electron Bunches Formed by Photo Injectors. <i>Radiophysics and Quantum Electronics</i> , 2020 , 63, 422-429	0.7
16	Submillimeter moderately relativistic free-electron maser 2003 , 162-165	
15	Regime of non-resonant trapping in an FEM-amplifier 2003 , 158-161	
14	Regime of non-resonant trapping in a Bragg-cavity FEM oscillator 2004 , 67-70	
13	Masers with selective excitation of Talbot-type supermode. <i>Journal of Physics: Conference Series</i> , 2020 , 1697, 012059	0.3
12	Efficiency enhancement of THz radiation from an electron bunch in a waveguide due to low-frequency stabilization. <i>Journal of Physics: Conference Series</i> , 2020 , 1697, 012058	0.3

LIST OF PUBLICATIONS

New opportunity of efficiency enhancement for FEL-oscillators **1998**, 480-484

10	LF-mode excitation in FEL caused by stimulated scattering of operating HF-mode 1998, 102-106	
9	Frequency Tuning in Short-Wave Gyrotrons with Irregular Cavities. <i>Radiophysics and Quantum Electronics</i> , 2020 , 62, 740-748	0.7
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