Andrei V Savilov

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172 papers	1,121 citations	20 h-index	25 g-index
237 ext. papers	1,524 ext. citations	1.7 avg, IF	4.67 L-index

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

155	Possibilities for Continuous Frequency Tuning in Terahertz Gyrotrons with Nontunable Electrodynamic Systems. *Radiophysics and Quantum Electronics*, **2016**, 58, 660-672	0.7	21
154	Flying radio frequency undulator. *Applied Physics Letters*, **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. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1995**, 358, 182-185	1.2	20
152	Gyrotron with a sectioned cavity based on excitation of a far-from-cutoff operating mode. *Physics of Plasmas*, **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. *IEEE Transactions on Electron Devices*, **2017**, 64, 3893-3897	2.9	19
150	Generation of ultra-short quasi-unipolar electromagnetic pulses from quasi-planar electron bunches. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2001**, 475, 436-440	1.2	19
149	Super-radiative self-compression of photo-injector electron bunches. *Applied Physics Letters*, **2017**, 110, 263508	3.4	18
148	Sources of Coherent Terahertz Radiation. *AIP Conference Proceedings*, **2006**,	0	17
147	Regime of non-resonant trapping in an FEM-amplifier. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2003**, 507, 158-161	1.2	17
146	Simulations of the build-up of transverse and longitudinal structures of the microwave field in the Fusion FEM. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1998**, 407, 40-44	1.2	16
145	Negative-mass instability in magnetron-injection guns. *Physics of Plasmas*, **1997**, 4, 2276-2284	2.1	15
144	To the problem of energy recuperation in gyrotrons. *Journal of Infrared, Millimeter and Terahertz Waves*, **1995**, 16, 459-471		15
143	Compression of a photoinjector electron bunch in the negative-mass undulator. *Physical Review Accelerators and Beams*, **2017**, 20,	1.8	15
142	A method for suppression of spurious fundamental-harmonic waves in gyrotrons operating at the second cyclotron harmonic. *Physics of Plasmas*, **2016**, 23, 053116	2.1	14
141	Q-switching in the electron backward-wave oscillator. *Physics of Plasmas*, **2011**, 18, 103102	2.1	13
140	Stability of frequency-multiplying harmonic gyroklystrons. *Physics of Plasmas*, **2008**, 15, 013112	2.1	13
139	Peculiarities of the coherent spontaneous synchrotron radiation of dense electron bunches. *Physics of Plasmas*, **2014**, 21, 023103	2.1	12
138	Cyclotron-undulator cooling of a free-electron-laser beam. *Applied Physics Letters*, **2014**, 105, 073503	3.4	12

137	Demonstration of a Selective Oversized Cavity in a Terahertz Second-Harmonic Gyrotron. *IEEE Electron Device Letters*, **2020**, 41, 1412-1415	4.4	12
136	Recovery of electron energy in cyclotron autoresonance masers. *Physics of Plasmas*, **1997**, 4, 2285-2291	2.1	11
135	Effective Co-generation of opposite and forward waves in cyclotron-resonance masers. *Physical Review Letters*, **2000**, 85, 3424-7	7.4	11
134	Regime of multi-stage trapping in electron masers. *Physics of Plasmas*, **2018**, 25, 113114	2.1	11
133	Super-radiant backward-wave oscillators with enhanced power conversion. *Physics of Plasmas*, **2013** , 20, 024501	2.1	10
132	First mm-wave generation in the FOM free electron maser. *IEEE Transactions on Plasma Science*, **1999**, 27, 1084-1091	1.3	10
131	Spontaneous super-radiative cascade undulator emission from short dense electron bunches. *Physics of Plasmas*, **2019**, 26, 113105	2.1	9
130	Stability of Excitation of Traveling Waves in Gyrotrons With Low-Relativistic Electron Beams. *IEEE Transactions on Electron Devices*, **2017**, 64, 4693-4699	2.9	8
129	Frequency multiplication in gyrotron autooscillators. *Technical Physics Letters*, **2006**, 32, 84-87	0.7	8
128	Space charge effects as a source of electron energy spread and efficiency degradation in gyrotrons. *IEEE Transactions on Plasma Science*, **2000**, 28, 633-637	1.3	8
127	Account of the feedback frequency dispersion in spatio-temporal equations of a free-electron laser. *Optics Communications*, **1996**, 123, 133-138	2	8
126	Traditional vs. advanced Bragg reflectors for oversized circular waveguide. *Fusion Engineering and Design*, **2017**, 123, 477-480	1.7	7
125	Super-radiant effects in electron oscillators with near-cutoff operating waves. *Physics of Plasmas*, **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. *Radiophysics and Quantum Electronics*, **2016**, 58, 607-614	0.7	7
123	Super-radiant Cherenkov backward-wave oscillator with cyclotron absorption. *Applied Physics Letters*, **2011**, 99, 193506	3.4	6
122	Nonresonant excitation and nonlinear suppression of parasitic transverse modes in free-electron masers. *Journal of Infrared, Millimeter and Terahertz Waves*, **1993**, 14, 2119-2130		6
121	Use of Quasiregular Resonator Cavities with Short Phase Correctors in Gyrotrons Operated at Higher Cyclotron Harmonics. *Radiophysics and Quantum Electronics*, **2017**, 59, 655-666	0.7	5
120	Electron rf Oscillator Based on Self-Excitation of a Talbot-Type Supermode in an Oversized Cavity. *Physical Review Applied*, **2019**, 12,	4.3	5

119	Cyclotron frequency multiplication in Cherenkov backward-wave oscillators. *Physics of Plasmas*, **2009**, 16, 063103	2.1	5
118	Submillimeter moderately relativistic free-electron maser. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2003**, 507, 162-165	1.2	5
117	Optimal parameters of gyrotrons with weak electron-wave interaction. *Physics of Plasmas*, **2016**, 23, 093108	2.1	5
116	Experimental demonstration of free electron maser operation in the regime of non-resonant trapping. *Applied Physics Letters*, **2019**, 115, 163501	3.4	5
115	Double-Beam Gyrotron With Frequency Multiplication. *IEEE Transactions on Electron Devices*, **2019**, 66, 2396-2400	2.9	4
114	Spontaneous coherent cyclotron THz super-radiation from a short dense photo-injector electron bunch. *EPJ Web of Conferences*, **2017**, 149, 05019	0.3	4
113	Multi-pulse operation of a super-radiant backward-wave oscillator. *Physics of Plasmas*, **2014**, 21, 084501	2.1	4
112	Numerical simulations of a co-harmonic gyrotron. *Journal Physics D: Applied Physics*, **2012**, 45, 065105	3	4
111	Electron energy recuperation in gyrodevices. *Physics of Plasmas*, **2008**, 15, 073104	2.1	4
110	A high power, tunable free electron maser for fusion. *Fusion Engineering and Design*, **2001**, 53, 423-430	1.7	4
109	FEM with guiding magnetic field based on simultaneous fundamental and high-harmonic oscillations. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2000**, 445, 284-289	1.2	4
108	A gyrodevice based on simultaneous excitation of opposite and forward waves (Gyrotron BWO-TWT). *IEEE Transactions on Plasma Science*, **2000**, 28, 1742-1746	1.3	4
107	First lasing of the Dutch Fusion-FEM: 730 kW, 200 GHz. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **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. *Applied Physics Letters*, **2017**, 111, 073504	3.4	3
105	Regime of nonresonant trapping in a CARM oscillator. *IEEE Transactions on Plasma Science*, **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. *IEEE Transactions on Plasma Science*, **2004**, 32, 1147-1151	1.3	3
103	Mode dynamics in a free electron maser with broadband frequency-dispersive feedback. *Physics of Plasmas*, **2001**, 8, 638-642	2.1	3
102	CARM-amplifier in the regime of "nonresonant" trapping of the electron beam. *IEEE Transactions on Plasma Science*, **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. *Technical Physics*, **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. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1999**, 429, 65-69	1.2	3
99	Improvement of Mode Selectivity of High-Harmonic Gyrotrons by Using Operating Cavities with Short Output Reflectors. *Journal of Infrared, Millimeter, and Terahertz Waves*, **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. *Physics of Plasmas*, **2020**, 27, 063103	2.1	2
97	The reflex gyrotron. *Physics of Plasmas*, **2012**, 19, 024505	2.1	2
96	The multi-mode gyrotron. *Physics of Plasmas*, **2011**, 18, 104502	2.1	2
95	Regime of trapping and adiabatic deceleration of electrons in a sectioned electron RF generator. *IEEE Transactions on Plasma Science*, **1998**, 26, 36-40	1.3	2
94	LF-mode excitation in FEL caused by stimulated scattering of operating HF-mode. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **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. *Technical Physics Letters*, **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. *Physical Review Special Topics: Accelerators and Beams*, **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. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2004**, 528, 562-565	1.2	2
88	A free-electron amplifier in the regime of non-resonant trapping. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2002**, 483, 200-204	1.2	2
87	First lasing of the Dutch fusion-FEM in the long-pulse configuration. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2002**, 483, 259-262	1.2	2
86	Cooperation of traveling and quasi-cutoff waves in a cyclotron-resonance maser. *Technical Physics*, **2001**, 46, 1001-1008	0.5	2
85	Experimental study of CRM with simultaneous excitation of traveling and near-cutoff waves (CARM-gyrotron). *IEEE Transactions on Plasma Science*, **2001**, 29, 609-612	1.3	2
84	Stimulated wave scattering in the Smith-Purcell FEL. *IEEE Transactions on Plasma Science*, **2001**, 29, 820-823	1.3	2

83	Temporal dynamics of fusion-FEM oscillations: comparison of experiment and simulations. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **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. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1995**, 358, 528-531	1.2	2
81	Self-trapping of the pre-bunched electron beam in a discrete system of isolated cells of the TBA-driver. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1996**, 372, 539-542	1.2	2
80	Negative-mass instability at nonsymmetrical perturbations. *Journal of Infrared, Millimeter and Terahertz Waves*, **1994**, 15, 1819-1828		2
79	Generation of Super-Radiance rf Pulses in a Sectioned Backward-Wave Oscillator. *The Open Plasma Physics Journal*, **2009**, 2, 165-170		2
78	Competition of Oscillations at Different Cyclotron Harmonics in the Subterahertz Large-Orbit Gyrotron. *IEEE Transactions on Electron Devices*, **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. *Radiophysics and Quantum Electronics*, **2016**, 58, 755-768	0.7	2
75	High-Harmonic Gyrotrons with Axis-Encircling Electron Beams at IAP RAS. *Radiophysics and Quantum Electronics*, **2019**, 62, 513-519	0.7	2
74	Pumping Systems for Compton Free-Electron Lasers: Microwave Undulators and Powering Sources. *Radiophysics and Quantum Electronics*, **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
72	A Compact THz Source for Enhancing the Sensitivity of Nuclear Magnetic Resonance Spectroscopy with Dynamic Nuclear Polarization. *Bulletin of the Russian Academy of Sciences: Physics*, **2018**, 82, 1592-1595	0.4	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. *Journal of Physics: Conference Series*, **2018**, 1135, 012018	0.3	2
68	Mode Selective Azimuthally Asymmetric Cavity for Terahertz Gyrotrons. *IEEE Transactions on Electron Devices*, **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. *Physics of Plasmas*, **2015**, 22, 043104	2.1	1

65	Frequency Tuning in the Gyrotron Oscillator With a Klystronlike Sectioned Cavity. *IEEE Transactions on Electron Devices*, **2015**, 62, 3393-3398	2.9	1
64	On applicability of absorbing rectilinear electron beams in high-frequency gyrotrons operating at cyclotron harmonics. *Physics of Plasmas*, **2020**, 27, 064501	2.1	1
63	Relativistic Second-Harmonic Gyrotron With a Selective Quasi-Regular Cavity. *IEEE Transactions on Electron Devices*, **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. *Radiophysics and Quantum Electronics*, **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. *Technical Physics Letters*, **2012**, 38, 759-763	0.7	1
56	Parametric phase locking in an electron rf oscillator. *Physical Review Letters*, **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. *Journal of Infrared, Millimeter and Terahertz Waves*, **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. *Technical Physics Letters*, **2006**, 32, 6-9	0.7	1
51	Gyrodevices with Axis-Encircling Electron Beams. *AIP Conference Proceedings*, **2003**,	0	1
50	Spatiotemporal dynamics of a free electron maser oscillator with broadband feedback and klystronlike interaction region. *Physical Review Special Topics: Accelerators and Beams*, **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. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2000**, 445, 230-235	1.2	1

47	Spurious excitation of near-cutoff modes in free-electron masers. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2000**, 445, 1-6	1.2	1
46	Parasitic excitation of fundamental-cyclotron-harmonic waves in high-harmonic gyrotrons. *Physics of Plasmas*, **2021**, 28, 113105	2.1	1
45	Spurious Fundamental-Harmonic Oscillations in the Horn Section of a High-Harmonic Gyrotron. *IEEE Transactions on Electron Devices*, **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. *Radiophysics and Quantum Electronics*, **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. *EPJ Web of Conferences*, **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. *IEEE Transactions on Electron Devices*, **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. *Physics of Plasmas*, **2021**, 28, 093303	2.1	1
37	Coherent super-radiative undulator emission of ultra-short THz wave pulses. *Physics of Plasmas*, **2021**, 28, 093302	2.1	1
36	Free-electron RF-pulse compressor. *Physical Review Letters*, **2002**, 88, 064801	7.4	0
35	Frequency-Tunable Second Harmonic Gyrotron With Selective Cavity: Design and Simulations. *IEEE Transactions on Electron Devices*, **2022**, 1-7	2.9	0
34	Simulations of the build-up of transverse and longitudinal structures of the microwave field in the Fusion FEM **1998**, 40-44		0
33	Supermodes of oversized Talbot-type cavities. *Journal of Applied Physics*, **2020**, 128, 114502	2.5	0
32	Formations of a giant "running" pulse in the process of a quasi-regular amplification of a long wave signal by a slipping electron bunch. *Physics of Plasmas*, **2020**, 27, 104502	2.1	0
31	On the voltage–current optimization in high-harmonic gyrotrons. *Physics of Plasmas*, **2021**, 28, 054504	2.1	0
30	Terahertz Undulator Radiation of Stabilized Dense Electron Beams. *Bulletin of the Russian Academy of Sciences: Physics*, **2018**, 82, 1587-1591	0.4	0

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

11	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. *Radiophysics and Quantum Electronics*, **2020**, 62, 740-748	0.7
8	Multi-resonance cyclotron-undulator electron acceleration. *Journal of Physics: Conference Series*, **2019**, 1400, 044004	0.3
7	A Free Electron Laser Based on a Sectional System of RF Undulators. *Bulletin of the Russian Academy of Sciences: Physics*, **2018**, 82, 1596-1599	0.4
6	THz radiation of stabilized dense electron bunches. *EPJ Web of Conferences*, **2018**, 195, 01016	0.3
5	Terahertz Gyrotrons at High Cyclotron Harmonics with Irregular Electrodynamic Systems. *Bulletin of the Russian Academy of Sciences: Physics*, **2018**, 82, 1582-1586	0.4
4	Spontaneous Cyclotron Radiation of a Dense Electron Bunch. *Bulletin of the Russian Academy of Sciences: Physics*, **2018**, 82, 1600-1603	0.4
3	Two-beam gyrotron with frequency multiplication. *EPJ Web of Conferences*, **2018**, 187, 01002	0.3
2	Cooling of an Electron Bunch in the Regime of Sectioned Trapping of Electrons by the Excited Wave Fields. *Radiophysics and Quantum Electronics*, **2021**, 64, 422-434	0.7
1	Generation of ultrashort pulses in the THz frequency range. *Journal of Physics: Conference Series*, **2021**, 2103, 012061	0.3