

Irina V Zotova

List of Publications by Year in descending order

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163
docs citations

163
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#	ARTICLE	IF	CITATIONS
1	Generation of Cherenkov superradiance pulses with a peak power exceeding the power of the driving short electron beam. <i>Physical Review E</i> , 2006, 74, 016501.	0.8	107
2	Experimental Observation of Cyclotron Superradiance under Group Synchronism Conditions. <i>Physical Review Letters</i> , 1997, 78, 2365-2368.	2.9	96
3	Generation of powerful subnanosecond microwave pulses by intense electron bunches moving in a periodic backward wave structure in the superradiative regime. <i>Physical Review E</i> , 1999, 60, 3297-3304.	0.8	96
4	Generation of Electromagnetic Fields of Extremely High Intensity by Coherent Summation of Cherenkov Superradiance Pulses. <i>Physical Review Letters</i> , 2015, 115, 114802.	2.9	71
5	A novel THz-band double-beam gyrotron for high-field DNP-NMR spectroscopy. <i>Review of Scientific Instruments</i> , 2017, 88, 094708.	0.6	57
6	Generation of Rogue Waves in Gyrotrons Operating in the Regime of Developed Turbulence. <i>Physical Review Letters</i> , 2017, 119, 034801.	2.9	48
7	Generation of powerful subnanosecond microwave pulses in the range of 38-150 GHz. <i>IEEE Transactions on Plasma Science</i> , 2000, 28, 1615-1619.	0.6	46
8	High-Power Terahertz-Range Planar Gyrotrons with Transverse Energy Extraction. <i>Physical Review Letters</i> , 2012, 108, 105101.	2.9	46
9	Time-domain self-consistent theory of frequency-locking regimes in gyrotrons with low-Q resonators. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	45
10	Generation of Subterahertz Superradiance Pulses Based on Excitation of a Surface Wave by Relativistic Electron Bunches Moving in Oversized Corrugated Waveguides. <i>Physical Review Letters</i> , 2016, 117, 204801.	2.9	45
11	Experimental observation of superradiance in millimeter-wave band. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997, 393, 352-355.	0.7	41
12	Frequency Tunable sub-THz Gyrotron for Direct Measurements of Positronium Hyperfine Structure. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2018, 39, 975-983.	1.2	33
13	Generation of "gigantic" ultra-short microwave pulses based on passive mode-locking effect in electron oscillators with saturable absorber in the feedback loop. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	27
14	Generation, Amplification, and Nonlinear Self-Compression of Powerful Superradiance Pulses. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 646-660.	0.6	25
15	Electron-optical systems for planar gyrotrons. <i>Physics of Plasmas</i> , 2014, 21, 023106.	0.7	24
16	Frequency Locking and Stabilization Regimes in High-Power Gyrotrons with Low-Q Resonators. <i>Radiophysics and Quantum Electronics</i> , 2016, 58, 684-693.	0.1	24
17	Phase-Imposing Initiation of Cherenkov Superradiance Emission by an Ultrashort-Seed Microwave Pulse. <i>Physical Review Letters</i> , 2017, 118, 264801.	2.9	23
18	Generation of intense spatially coherent superradiant pulses in strongly oversized 2D periodical surface-wave structure. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	23

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19	Mechanisms of amplification of ultrashort electromagnetic pulses in gyrotron traveling wave tube with helically corrugated waveguide. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	22
20	Effect of the nonlinear compression of ultrashort microwave pulses in the process of the amplification by quasistationary electron beams. <i>JETP Letters</i> , 2010, 91, 553-557.	0.4	21
21	Terahertz free-electron lasers with bragg structures based on the coupling between traveling and quasicritical waves. <i>JETP Letters</i> , 2010, 91, 266-270.	0.4	20
22	Generation of a periodic sequence of powerful ultrashort pulses in a traveling wave tube with bleachable absorber in the feedback loop. <i>Technical Physics Letters</i> , 2015, 41, 836-839.	0.2	20
23	Generation of trains of ultrashort microwave pulses by two coupled helical gyro-TWTs operating in regimes of amplification and nonlinear absorption. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	20
24	Coherent Summation of Emission From Relativistic Cherenkov Sources as a Way of Production of Extremely High-Intensity Microwave Pulses. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 377-385.	0.6	19
25	Frequency Stabilization in a Sub-Terahertz Gyrotron With Delayed Reflections of Output Radiation. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 2465-2469.	0.6	19
26	Self-Induced Transparency and Electromagnetic Pulse Compression in a Plasma or an Electron Beam under Cyclotron Resonance Conditions. <i>Physical Review Letters</i> , 2010, 105, 265001.	2.9	17
27	Experimental observation of cyclotron superradiance. <i>JETP Letters</i> , 1996, 63, 331-335.	0.4	15
28	3D Quasioptical Theory of Terahertz Superradiance of an Extended Electron Bunch Moving Over a Corrugated Surface. <i>Physical Review Letters</i> , 2013, 110, 184801.	2.9	15
29	Time-domain theory of gyrotron traveling wave amplifiers operating at grazing incidence. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	15
30	Chaotic millimeter wave generation in a helical-waveguide gyro-TWT with delayed feedback. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	15
31	Improvement of Stability of High Cyclotron Harmonic Operation in the Double-Beam THz Gyrotrons. <i>IEEE Transactions on Plasma Science</i> , 2016, , 1-7.	0.6	15
32	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.	1.6	15
33	Experimental observation of Cherenkov superradiance from an intense electron bunch. <i>Optics Communications</i> , 2000, 175, 139-146.	1.0	14
34	Self-induced transparency, compression, and stopping of electromagnetic pulses interacting with beams of unexcited classical oscillators. <i>Journal of Experimental and Theoretical Physics</i> , 2011, 113, 772-780.	0.2	14
35	Three-dimensional particle-in-cell modeling of terahertz gyrotrons with cylindrical and planar configurations of the interaction space. <i>Physics of Plasmas</i> , 2013, 20, 043103.	0.7	14
36	Mutual synchronization of weakly coupled gyrotrons. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	14

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37	An Experimental Investigation of a 0.8 THz Double-Beam Gyrotron. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2019, 40, 1114-1128.	1.2	14
38	Investigation of the Frequency Double-Multiplication Effect in a Sub-THz Gyrotron. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020, 41, 1245-1251.	1.2	14
39	Powerful terahertz free electron lasers with hybrid Bragg reflectors. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2011, 14, .	1.8	13
40	Experimental observation of superradiance in the stimulated scattering of an intense microwave pump wave by a counterpropagating subnanosecond high-current relativistic electron bunch. <i>JETP Letters</i> , 2005, 82, 263-266.	0.4	12
41	Conversion of an Electromagnetic Wave into a Periodic Train of Solitons under Cyclotron Resonance Interaction with a Backward Beam of Unexcited Electron-Oscillators. <i>Physical Review Letters</i> , 2014, 113, 143901.	2.9	12
42	Nonlinear Cyclotron Resonance Absorber for a Microwave Subnanosecond Pulse Generator Powered by a Helical-Waveguide Gyrotron Traveling-Wave Tube. <i>Physical Review Applied</i> , 2020, 13, .	1.5	12
43	Characteristic features of the amplification of short electromagnetic pulses during propagation along steady-state electron beams. <i>Technical Physics Letters</i> , 1999, 25, 930-932.	0.2	10
44	Theory of cyclotron super-radiance from a moving electron bunch under group synchronism condition. <i>Physics of Plasmas</i> , 2003, 10, 4494-4503.	0.7	10
45	Undulator superradiance effect and its applicability for the generation of multimewatt terahertz pulses. <i>Journal of Experimental and Theoretical Physics</i> , 2014, 119, 632-640.	0.2	10
46	Time-domain theory of low-Q gyrotrons with frequency-dependent reflections of output radiation. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	10
47	Generation of high-power ultrashort electromagnetic pulses on the basis of effects of superradiance of electron bunches. <i>Radiophysics and Quantum Electronics</i> , 2007, 50, 762-779.	0.1	9
48	Amplification of ultrashort electromagnetic pulses propagating along quasi-continuous electron beams. <i>Technical Physics</i> , 2009, 54, 103-109.	0.2	9
49	Free-electron maser with high-selectivity Bragg resonator using coupled propagating and trapped modes. <i>Technical Physics Letters</i> , 2010, 36, 952-956.	0.2	8
50	Gyrotron generation of broadband chaotic radiation under overlapping of high- and low-frequency resonances. <i>Technical Physics</i> , 2017, 62, 1562-1568.	0.2	8
51	Phase-imposed regime of relativistic backward-wave oscillators. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	8
52	K _a -Band 100-kW Subnanosecond Pulse Generator Mode-Locked by a Nonlinear Cyclotron Resonance Absorber. <i>Physical Review Applied</i> , 2021, 16, .	1.5	8
53	Generation of periodic high-power ultrashort pulse sequences in a chain of coupled traveling-wave tubes operating in the regimes of amplification and nonlinear Kompfner suppression. <i>Technical Physics Letters</i> , 2017, 43, 842-845.	0.2	7
54	Generation of ultrashort microwave pulses in the sub-THz and THz range based on the cyclotron superradiance effect. <i>Technical Physics Letters</i> , 2017, 43, 831-834.	0.2	7

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55	Ultrawideband Millimeter-Wave Oscillators Based on Two Coupled Gyro-TWTs With Helical Waveguide. IEEE Transactions on Electron Devices, 2018, 65, 2334-2339.	1.6	7
56	Generation of Electromagnetic Rogue-Waves in Submillimeter-Band Gyrotrons. Journal of Infrared, Millimeter, and Terahertz Waves, 2019, 40, 150-157.	1.2	7
57	Theoretical and Experimental Investigations of Terahertz-Range Gyrotrons with Frequency and Spectrum Control. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 1131-1143.	1.2	7
58	The generation of superradiance pulses by high-current subnanosecond electron bunches moving in a periodic slow-wave system: Theory and experiment. Technical Physics, 2002, 47, 80-87.	0.2	6
59	Generation of a Periodic Series of High-Power Ultra-Short Pulses in a Gyro-TWT with a Bleachable Cyclotron Absorber in the Feedback Circuit. Radiophysics and Quantum Electronics, 2016, 58, 598-606.	0.1	6
60	Experimental Observation of Chaotic Generation at 1.5% Spectral Width in a Gyrotron under Large Supercriticality Conditions. Technical Physics Letters, 2019, 45, 511-514.	0.2	6
61	Experimental Demonstration of the Possibility to Expand the Band of Smooth Tuning of Frequency Generation in Short-Cavity Gyrotrons. Radiophysics and Quantum Electronics, 2019, 61, 797-800.	0.1	6
62	Widening of the Frequency Tuning Bandwidth in a Subterahertz Gyrotron with an External Bragg Reflector. Radiophysics and Quantum Electronics, 2020, 63, 363-370.	0.1	6
63	Self-similar modes of amplification and compression of electromagnetic pulses in their interaction with electron flows. Technical Physics Letters, 2013, 39, 446-449.	0.2	5
64	Quasi-optical theory of radiation amplification by electron flow above resistive metal surface. Technical Physics Letters, 2013, 39, 123-126.	0.2	5
65	Development of the 75-GHz planar gyrotron with transverse energy extraction. Journal of Communications Technology and Electronics, 2014, 59, 777-781.	0.2	5
66	Chaotic Generation in a W-Band Gyroklystron With Delayed Feedback. IEEE Transactions on Plasma Science, 2018, 46, 2470-2474.	0.6	5
67	Generation of a Periodic Sequence of High-Power Ultrashort Pulses in a Chain of Coupled Backward-Wave and Traveling-Wave Tubes Operating in the Regimes of Amplification and Nonlinear Kompfner Suppression. Technical Physics, 2018, 63, 1205-1211.	0.2	5
68	Nonlinear excitation of parasitic modes in harmonic gyrotrons. Physics of Plasmas, 2020, 27, .	0.7	5
69	Generation of ultrashort microwave pulses based on cyclotron superradiance. IEEE Transactions on Plasma Science, 1999, 27, 462-469.	0.6	4
70	Submillimeter planar gyrotrons with transverse diffraction output of radiation. Technical Physics Letters, 2011, 37, 79-82.	0.2	4
71	Optimization of terahertz range gyrotron self-excitation conditions by increasing the lifetime of cyclotron oscillators in low-voltage interaction space. Technical Physics Letters, 2017, 43, 110-113.	0.2	4
72	Experimental study of a THz band double-beam gyrotron. , 2017, , .		4

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73	Development of the Concept of High-Power Microwave Oscillators with Phase Locking by an External Signal. Radiophysics and Quantum Electronics, 2019, 62, 447-454.	0.1	4
74	Terahertz-Range High-Order Cyclotron Harmonic Planar Gyrotrons with Transverse Energy Extraction. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 152-163.	1.2	4
75	Magnetron-Injection Gun with Increased Current for Frequency Tunable Medium Power Sub-THz Gyrotron. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 1488-1497.	1.2	4
76	Production of Multi-Gigawatt Sub-Nanosecond Microwave Pulses by the Method of Chirped-Pulse-Amplification. IEEE Electron Device Letters, 2021, 42, 426-429.	2.2	4
77	Formation of microwave frequency-chirped solitons of self-induced transparency under conditions of cyclotron resonance absorption. Physical Review E, 2021, 104, 034218.	0.8	4
78	Universal Electron Gun Design for a CW Third Harmonic Gyrotron with an Operating Frequency over 1 THz. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 1121-1130.	1.2	4
79	Phase-Locking of Second-Harmonic Gyrotrons for Providing MW-Level Output Power. IEEE Transactions on Electron Devices, 2022, 69, 754-758.	1.6	4
80	Čerenkov superradiance from a subnanosecond electron bunch in a sectional decelerating system. Technical Physics Letters, 1997, 23, 948-950.	0.2	3
81	Generation of subnanosecond superradiance pulses in the short-wavelength part of the millimeter range. Technical Physics Letters, 1999, 25, 927-929.	0.2	3
82	Pulsed EHF superradiance due to the stimulated scattering of a high-power pump wave by a counterpropagating electron bunch. Technical Physics Letters, 2000, 26, 694-697.	0.2	3
83	Diffraction selection of modes in planar backward-wave oscillators. Radiophysics and Quantum Electronics, 2009, 52, 568-575.	0.1	3
84	Short-wave sectioned free-electron masers with Bragg resonators based on the traveling and quasi-critical wave coupling. Radiophysics and Quantum Electronics, 2009, 52, 557-563.	0.1	3
85	Terahertz superradiance of an extended electron bunch propagating over a corrugated surface. Technical Physics Letters, 2012, 38, 951-954.	0.2	3
86	The amplification, compression, and self-induced transparency effects for the ultrashort electromagnetic pulses propagating along quasi-stationary electron beams. Radiophysics and Quantum Electronics, 2012, 54, 532-547.	0.1	3
87	Quasioptical Theory of Relativistic Čerenkov Generators and Amplifiers. Radiophysics and Quantum Electronics, 2014, 56, 508-531.	0.1	3
88	Development and preliminary tests of a second harmonic double-beam continuous wave gyrotron with operating frequency of 0.79 THz. , 2016, , .		3
89	Time-domain model of gyroklystrons with diffraction power input and output. Physics of Plasmas, 2016, 23, .	0.7	3
90	Generation of Powerful Subterahertz Superradiance Pulses for High-Gradient Acceleration of Charged Particles. EPJ Web of Conferences, 2018, 195, 01023.	0.1	3

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91	Generation of a Periodic Sequence of Ultrashort Electromagnetic Pulses in a Scheme with Two Parallel Radiating and Absorbing Electron Beams. <i>Technical Physics Letters</i> , 2021, 47, 184-188.	0.2	3
92	Frequency Multiplication in Planar Gyrotrons as a Method for Production of High-Power Multi-THz Radiation. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 1267-1270.	1.6	3
93	The Concept of a Gyrotron with Megawatt Output at Both First and Second Cyclotron Harmonics for Plasma Heating in Spherical Tokamaks. <i>Radiophysics and Quantum Electronics</i> , 2020, 63, 345-353.	0.1	3
94	Generation of superradiance pulses by high-current subnanosecond electron bunches moving in a periodic slow-wave structure. <i>Technical Physics Letters</i> , 1998, 24, 709-711.	0.2	2
95	Theory of cyclotron superradiance from a moving electron bunch under group synchronism conditions. <i>Technical Physics</i> , 2000, 45, 813-820.	0.2	2
96	Increasing of Peak Power of Superradiation Pulses by Variation of Accelerating Voltage. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	2
97	Generation of giant pulses of scattered radiation on the moving front of a pump wave. <i>JETP Letters</i> , 2008, 87, 124-127.	0.4	2
98	Using the lorentz transformation to simulate terahertz-range superradiance of picosecond electron bunches moving in an undulator field. <i>Technical Physics Letters</i> , 2012, 38, 531-534.	0.2	2
99	Chaotic millimeter-wave generation on the basis of wideband gyro-amplifiers with a helical corrugated waveguide. <i>Technical Physics Letters</i> , 2017, 43, 162-165.	0.2	2
100	Stretching, Amplification, and Compression of Microwave Pulses Using Helically Corrugated Waveguides. <i>Radiophysics and Quantum Electronics</i> , 2019, 62, 472-480.	0.1	2
101	Simulations of Sub-THz Confocal-Cavity Gyrotrons with Different Configurations of Electron Beams. , 2019, , .		2
102	Conditions of rogue-wave generation in gyrotrons. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	2
103	Langmuir wave excitation by a sheet relativistic electron beam in a homogeneous magnetized plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994, 186, 235-238.	0.9	1
104	Cyclotron superradiance of a high-current electron bunch under group synchronism conditions. <i>Russian Physics Journal</i> , 1996, 39, 1233-1240.	0.2	1
105	Superradiance of short electron pulses in waveguides. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 375, 553-557.	0.7	1
106	On the theory of the acceleration of plasma electrons during stimulated scattering of an intense laser wave. <i>Technical Physics</i> , 1999, 44, 1-5.	0.2	1
107	Nonlinear theory of channeling of radiation by a ribbon-shaped stream of cyclotron oscillators. <i>Technical Physics</i> , 1999, 44, 6-11.	0.2	1
108	Generation of subnanosecond microwave pulses based on the Cherenkov superradiance effect. <i>Technical Physics</i> , 2002, 47, 335-342.	0.2	1

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109	Optimization of electron bunch profile for increasing peak power of superradiance pulses. Optics Communications, 2004, 231, 303-308.	1.0	1
110	Formation of the transverse field structure in terahertz planar free-electron lasers. Technical Physics, 2011, 56, 400-405.	0.2	1
111	Self-similar regimes of short electromagnetic pulses amplification and compression by quasi-stationary electron beams. , 2013, , .		1
112	Modulation of high-intensity microwave radiation during its resonant interaction with counterflow of nonexcited cyclotron oscillators. Technical Physics Letters, 2014, 40, 495-498.	0.2	1
113	Mechanisms of Čerenkov Superradiance of Extended Electron Bunches in Oversized Corrugated Waveguides. Radiophysics and Quantum Electronics, 2016, 59, 461-470.	0.1	1
114	Generators of High-Power Ultrashort Microwave Pulses with a Saturable Absorber in a Feedback Circuit. Radiophysics and Quantum Electronics, 2017, 59, 613-628.	0.1	1
115	Startup scenarios for an ultrashort pulse generator based on two coupled helical gyro-TWTs operating in the amplification and nonlinear absorption modes. Bulletin of the Russian Academy of Sciences: Physics, 2018, 82, 53-58.	0.1	1
116	Frequency Conversion of High-Power Gyrotron Radiation under Conditions of Raman Backscattering on an Auxiliary Electron Beam. Technical Physics Letters, 2019, 45, 134-137.	0.2	1
117	Microwave-Band Chirped Pulse Amplification Technique Based on a System of Helically Corrugated Waveguides. , 2019, , .		1
118	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.	1.2	1
119	Amplification and Nonlinear Compression of Ultrashort Microwave Pulses by Quasi-Stationary Electron Beams: Theory and Experiment. Journal of the Korean Physical Society, 2011, 59, 3503-3507.	0.3	1
120	Entrainment, stopping, and transmission of microwave solitons of self-induced transparency in counter-propagating magnetized electron beam. Chaos, 2022, 32, 053123.	1.0	1
121	The Use of Microwave Superradiance Pulses for High-Gradient Acceleration of Electrons in a Cylindrical Waveguide with a Dielectric Insert. Technical Physics Letters, 2022, 48, 27-30.	0.2	1
122	Theory of the undulator superradiance of an electron beam pulse in the group synchronism regime. Technical Physics Letters, 1999, 25, 296-299.	0.2	0
123	Novel source of powerful subnanosecond microwave pulses based on superradiance. , 0, , .		0
124	Novel schemes of production and amplification of superradiance pulses by short intense electron beams. , 2007, , .		0
125	Submillimeter radiation production by intercavity stimulated scattering in planar FEM at the ELMI-device. , 2007, , .		0
126	Intercavity stimulated scattering in planar FEM as a base for two-stage generation of submillimeter radiation. , 2007, , .		0

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127	Absolute-instability growth rates and eigenmode structures in the electron-beam backward-wave system with large excesses over the generation threshold. Radiophysics and Quantum Electronics, 2007, 50, 281-286.	0.1	0
128	Frequency increasing and power enhancement of microwave sources based on superradiance from intense electron bunch. , 2008, , .		0
129	Theory of wiggler superradiance from an extended electron bunch under the group synchronism condition. Optics Communications, 2010, 283, 78-83.	1.0	0
130	Nonlinear dynamics of a terahertz band FEL with advanced Bragg resonators. , 2010, , .		0
131	Electromagnetic pulse self-compression under cyclotron resonance absorption by plasma or electron beam. , 2010, , .		0
132	FEM with high-selective Bragg resonator based on coupling of propagating and cutoff waves. , 2010, , .		0
133	High-power THz range planar gyrotrons with transverse energy extraction. , 2011, , .		0
134	Electromagnetic pulse stopping under cyclotron resonance interaction with backward rectilinear electron beam. , 2011, , .		0
135	Nonlinear dynamics of free electron terahertz lasers with bragg mirrors based on coupling of traveling and quasi-critical waves. Technical Physics, 2011, 56, 155-163.	0.2	0
136	Generation, amplification and nonlinear self-compression of powerful microwave Superradiance pulses. , 2012, , .		0
137	Generation of powerful terahertz pulses based on undulator and Cherenkov mechanisms of superradiance from multipicoseconds electron bunches. , 2012, , .		0
138	Nonlinear dynamics of planar gyrotrons with transverse diffraction coupling of radiation. Technical Physics, 2012, 57, 1135-1142.	0.2	0
139	Use of cyclotron resonance absorption for amplitude modulation of CW microwave radiation. , 2013, , .		0
140	Optimization and 3D analysis of high frequency gyrotrons. , 2013, , .		0
141	Frequency-angle characteristics of superradiance pulses generated by ultrarelativistic electron bunches propagating in an undulator field. Technical Physics Letters, 2014, 40, 72-76.	0.2	0
142	Mechanisms of amplification of short electromagnetic pulses in gyroresonance traveling-wave tubes. Journal of Communications Technology and Electronics, 2014, 59, 798-804.	0.2	0
143	Generation of cyclotron superradiance pulses in an electrostatic trap pumped with an electron beam. Technical Physics Letters, 2015, 41, 565-567.	0.2	0
144	Generation of ultrashort microwave pulses in gyro-TWT with saturable cyclotron absorber in the feedback loop. , 2015, , .		0

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145	Non-autonomous regimes in gyrotrons with low-Q resonators. , 2015, , .		0
146	Summation of emission from superradiant sources as a way to obtain extreme power density microwaves. , 2015, , .		0
147	Terahertz superradiance of an extended electron bunch moving in an oversized corrugated cylindrical waveguide. , 2015, , .		0
148	Generation of cherenkov superradiant pulses with correlated phases defined by sharp edges of high-current electron bunches. , 2015, , .		0
149	Passive mode-locking, dissipative solitons and generation of ultrashort pulses in electron oscillators with saturable absorber in the feedback loop. , 2016, , .		0
150	Generation of Ultrashort Microwave Pulses in Passive Mode-Locked Electron Oscillators with Homogeneous and Inhomogeneous Line Broadening. EPJ Web of Conferences, 2018, 195, 01020.	0.1	0
151	Generation of High-Power Cherenkov Superradiance Pulses Using Oversized 2D Slow-Wave Structures. , 2018, , .		0
152	Frequency control in subterahertz gyrotrons. EPJ Web of Conferences, 2018, 195, 01005.	0.1	0
153	Frequency modulation, amplification and compression of microwave pulses in a system with helically corrugated waveguides as a dispersive elements. Journal of Physics: Conference Series, 2019, 1400, 044006.	0.3	0
154	Self-Induced Transparency Solitons and Dissipative Solitons in Microwave Electronic Systems. Radiophysics and Quantum Electronics, 2021, 63, 716-741.	0.1	0
155	Terahertz-Range Superradiant Generation in the Process of Laser Pulses Scattering with Frequency Down-Conversion. , 2021, , .		0
156	Generation of 150 MW/0.7 ns W-Band Superradiant Pulses in a Strongly Oversized 2D Periodical Surface-Wave Structure. , 2021, , .		0
157	10.1007/s11448-008-3002-4. , 2010, 87, 124.		0
158	Generation of Terahertz Superradiance Pulses under Stimulated Scattering of Laser Radiation by an Associated High-Current Relativistic Electron Beam. Technical Physics Letters, 2020, 46, 1162-1166.	0.2	0
159	Influence of Axial Misalignments on Operation Regimes of THz-Range Double-Beam Gyrotron. , 2020, , .		0
160	Formation of Microwave Soliton Trains due to Modulation Instability under Cyclotron Resonance Interaction of an Initially Rectilinear Electron Beam with a Backward Electromagnetic Wave. , 2021, , .		0
161	Megawatt Power Gyrotron with Generation Regimes at the 1 st and 2 nd Cyclotron Harmonics. , 2021, , .		0
162	Generation of a periodic train of ultrashort electromagnetic pulses based on the passive mode-locking effect in a scheme with two coaxial relativistic electron beams. , 2020, , .		0

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163	Generation of a Periodic Train of Ultrashort Microwave Pulses Based on Passive Mode Locking in a Scheme With Two Parallel Electron Beams. , 2020, , .		0