

Naum Ginzburg

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Relativistic Sub-THz Surface-Wave Sheet-Beam Amplifier With Transverse Energy Input and Output. IEEE Transactions on Electron Devices, 2022, 69, 759-762.	1.6	3
2	Phase-Locking of Second-Harmonic Gyrotrons for Providing MW-Level Output Power. IEEE Transactions on Electron Devices, 2022, 69, 754-758.	1.6	4
3	Development of Powerful Spatially Extended <i>W</i> -Band Cherenkov Maser of Planar Geometry With Two-Dimensional Distributed Feedback. IEEE Transactions on Electron Devices, 2022, 69, 2662-2667.	1.6	0
4	Quasi-Optical Theory of Relativistic Cherenkov Oscillators and Amplifiers with Oversized Electrodynamic Structures. Electronics (Switzerland), 2022, 11, 1197.	1.8	5
5	Entrainment, stopping, and transmission of microwave solitons of self-induced transparency in counter-propagating magnetized electron beam. Chaos, 2022, 32, 053123.	1.0	1
6	Recent Results on Development of Sub-GW Long-pulse THz-band FEL. , 2022, , .		0
7	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
8	Generation of a Periodic Sequence of Ultrashort Electromagnetic Pulses in a Scheme with Two Parallel Radiating and Absorbing Electron Beams. Technical Physics Letters, 2021, 47, 184-188.	0.2	3
9	Self-Induced Transparency Solitons and Dissipative Solitons in Microwave Electronic Systems. Radiophysics and Quantum Electronics, 2021, 63, 716-741.	0.1	0
10	Frequency Multiplication in Planar Gyrotrons as a Method for Production of High-Power Multi-THz Radiation. IEEE Transactions on Electron Devices, 2021, 68, 1267-1270.	1.6	3
11	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
12	Generation Spectrum of Long-Pulse Free-Electron Terahertz Lasers: Quasilinear Theory. JETP Letters, 2021, 113, 626-630.	0.4	1
13	Relativistic Sub-THz Surface-Wave Oscillators With Transverse Gaussian-Like Radiation Output. IEEE Electron Device Letters, 2021, 42, 751-754.	2.2	9
14	Quasi-optical theory of relativistic Cherenkov surface-wave oscillators with oversized cylindrical waveguides. Physics of Plasmas, 2021, 28, .	0.7	9
15	Conditions of rogue-wave generation in gyrotrons. Physics of Plasmas, 2021, 28, .	0.7	2
16	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
17	High-Power Tunable Source of Chaotic Radiation Based on a Ka-Band Helical Gyro-BWO. IEEE Electron Device Letters, 2021, 42, 1394-1397.	2.2	5
18	Generation of Short Microwave Pulses by Compression of Chirped Signals Obtained by Raman Backscattering on Electron Beam With Variable Energy. IEEE Electron Device Letters, 2021, 42, 1548-1550.	2.2	0

#	ARTICLE	IF	CITATIONS
19	Selective Strongly Oversized Resonators for Powerful Free-Electron Lasers Operating from Sub-THz to THz Band. , 2021, , .		1
20	Generation of 150 MW/0.7 ns W-Band Superradiant Pulses in a Strongly Oversized 2D Periodical Surface-Wave Structure. , 2021, , .		0
21	High-Power Free-Electron Masers Based on Linear Induction Accelerators. Radiophysics and Quantum Electronics, 2021, 63, 931.	0.1	1
22	K_a-Band 100-kW Subnanosecond Pulse Generator Mode-Locked by a Nonlinear Cyclotron Resonance Absorber. Physical Review Applied, 2021, 16, .	1.5	8
23	Increasing the Power and Radiation Coherence of Wide-Aperture Heterolasers by Optimizing the Width of the Bragg Grating. Semiconductors, 2021, 55, 672.	0.2	1
24	Progress in Development of Powerful Bragg FEL Operating from Sub-THz to THz Band. , 2021, , .		4
25	Pumping Systems for Compton FEL-Scattrons: RF-Undulators and Powering Relativistic Masers. , 2021, , .		0
26	Powerful W-band Planar Cherenkov Maser: Design, Simulations and State of Experiments. , 2021, , .		0
27	Powerful Cherenkov Masers with 2D Slow-wave Structures of Planar and Cylindrical Geometry. , 2021, , .		1
28	Quasi-optical Theory of Surface Wave Formation at Corrugated Metallic Surfaces and Its Interaction with Relativistic Electron Beams. , 2021, , .		0
29	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
30	Unified quasi-optical theory of short-wavelength radiation amplification by relativistic electron beams moving near the impedance surfaces. Physics of Plasmas, 2020, 27, 113106.	0.7	1
31	Generation of intense spatially coherent superradiant pulses in strongly oversized 2D periodical surface-wave structure. Applied Physics Letters, 2020, 117, .	1.5	23
32	Extended Feedback System for Coupled Sub-THz Gyro-Devices to Provide New Regimes of Operation. IEEE Transactions on Electron Devices, 2020, 67, 5729-5735.	1.6	1
33	Powerful oversized W-band free-electron maser with advanced Bragg resonator based on coupling of propagating and cutoff waves. Applied Physics Letters, 2020, 116, .	1.5	19
34	Self-similar amplification and self-compression of short microwave pulses during Cherenkov-type interaction with relativistic electron beams. Physics of Plasmas, 2020, 27, 053108.	0.7	1
35	Development of Wide-Band Chaotic Oscillators Based on a Family of Pulsed W-Band TWTs. Bulletin of the Russian Academy of Sciences: Physics, 2020, 84, 184-188.	0.1	1
36	Nonlinear Cyclotron Resonance Absorber for a Microwave Subnanosecond Pulse Generator Powered by a Helical-Waveguide Gyrotron Traveling-Wave Tube. Physical Review Applied, 2020, 13, .	1.5	12

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37	Powerful Long-Pulse Bragg FEL of Sub-THz to THz-band: Simulations and Tests of Electrodynamic System. , 2020, , .		1
38	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
39	Diffraction-Mode Selection in Heterolasers with Planar Bragg Structures. Semiconductors, 2020, 54, 1161-1165.	0.2	4
40	Project of powerful long-pulse Bragg FEL of sub-THz to THz band: design, simulations and components testing. , 2020, , .		3
41	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
42	Oversized Modified Bragg Cavities for High-Power Long-Pulse Subterahertz Free-Electron Lasers. Radiophysics and Quantum Electronics, 2020, 63, 440-448.	0.1	3
43	Development of High-Power Millimeter-Wave Surface-Wave Generators Based on Relativistic Ribbon Electron Beams. Radiophysics and Quantum Electronics, 2020, 63, 458-468.	0.1	9
44	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
45	Generation of a Periodic Train of Ultrashort Microwave Pulses Based on Passive Mode Locking in a Scheme With Two Parallel Electron Beams. , 2020, , .		0
46	Bragg Deflectors of Wave Fluxes for High-Power Relativistic Masers. Technical Physics, 2019, 64, 711-719.	0.2	0
47	2D Bragg Resonators Based on Planar Dielectric Waveguides (from Theory to Model-Based Testing). Semiconductors, 2019, 53, 1282-1286.	0.2	2
48	Semiconductor Heterolasers with Double-Mirror Two-Dimensional Bragg Resonators. Semiconductors, 2019, 53, 1148-1153.	0.2	0
49	Planar THz FELs Based on Intense Parallel Sheet Electron Beams and Intracavity Wave Scattering. Bulletin of the Russian Academy of Sciences: Physics, 2019, 83, 140-145.	0.1	1
50	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
51	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
52	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
53	Development of 100 MW W-Band Gyrotron with Relativistic Sheet Electron Beam. , 2019, , .		0
54	Generation of Trains of Ultrashot Microwave Pulses by Two Coupled W-Band TWTs. , 2019, , .		0

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55	Generation of Electromagnetic Rogue-Waves in Submillimeter-Band Gyrotrons. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2019, 40, 150-157.	1.2	7
56	Time-domain theory of low-Q gyrotrons with frequency-dependent reflections of output radiation. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	10
57	Transformation of High-Power Gyrotron Output Radiation Frequency under Conditions of Raman Scattering on Additional Electron Beam. <i>EPJ Web of Conferences</i> , 2018, 195, 01021.	0.1	1
58	Using Multichannel Laser Complexes for Incoherent Pumping of X-ray Compton Free-Electron Lasers. <i>Technical Physics Letters</i> , 2018, 44, 605-608.	0.2	1
59	Phase-imposed regime of relativistic backward-wave oscillators. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	8
60	Dissipative solitons in electron oscillators with a saturable absorber. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	7
61	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
62	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. <i>Technical Physics</i> , 2018, 63, 1205-1211.	0.2	5
63	Startup scenarios for an ultrashort pulse generator based on two coupled helical gyro-TWTS operating in the amplification and nonlinear absorption modes. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2018, 82, 53-58.	0.1	1
64	Optimization of terahertz range gyrotron self-excitation conditions by increasing the lifetime of cyclotron oscillators in low-voltage interaction space. <i>Technical Physics Letters</i> , 2017, 43, 110-113.	0.2	4
65	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
66	Passive mode locking and formation of dissipative solitons in electron oscillators with a bleaching absorber in the feedback loop. <i>Journal of Experimental and Theoretical Physics</i> , 2017, 124, 41-48.	0.2	3
67	Generation of Rogue Waves in Gyrotrons Operating in the Regime of Developed Turbulence. <i>Physical Review Letters</i> , 2017, 119, 034801.	2.9	48
68	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
69	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
70	Phase-Imposing Initiation of Cherenkov Superradiance Emission by an Ultrashort-Seed Microwave Pulse. <i>Physical Review Letters</i> , 2017, 118, 264801.	2.9	23
71	Generation of high-power broadband terahertz radiation during stimulated backscattering of the pump wave by an intense relativistic electron beam. <i>Physics of Plasmas</i> , 2017, 24, 123112.	0.7	0
72	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

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73	Generation of ultrashort microwave pulses in the sub-THz and THz range based on the cyclotron superradiance effect. Technical Physics Letters, 2017, 43, 831-834.	0.2	7
74	Powerful multichannel planar FEMs based on intense parallel sheet beams. , 2017, , .		1
75	Amplification of short-wave radiation based on the resistive instability of a relativistic electron beam (Quasi-optical theory). Technical Physics, 2017, 62, 1242-1249.	0.2	1
76	Oversized Ka-band surface-wave oscillator based on 2D periodical corrugated structure. , 2017, , .		1
77	Generation of high-power Cherenkov superradiance pulses using 2D periodic slow-wave structures based on oversized cylindrical waveguides. Technical Physics Letters, 2017, 43, 756-759.	0.2	3
78	Generation of "gigantic" ultra-short microwave pulses based on passive mode-locking effect in electron oscillators with saturable absorber in the feedback loop. Physics of Plasmas, 2016, 23, .	0.7	27
79	Quasi-optical theory of amplification of surface waves propagating above corrugated structures by a relativistic electron beam (impedance approximation). Technical Physics, 2016, 61, 1609-1618.	0.2	4
80	Frequency Locking and Stabilization Regimes in High-Power Gyrotrons with Low-Q Resonators. Radiophysics and Quantum Electronics, 2016, 58, 684-693.	0.1	24
81	Using Two-Dimensional Distributed Feedback for Synchronization of Radiation from Two Parallel-Sheet Electron Beams in a Free-Electron Maser. Physical Review Letters, 2016, 117, 114801.	2.9	52
82	Improvement of Stability of High Cyclotron Harmonic Operation in the Double-Beam THz Gyrotrons. IEEE Transactions on Plasma Science, 2016, , 1-7.	0.6	15
83	Generation of Subterahertz Superradiance Pulses Based on Excitation of a Surface Wave by Relativistic Electron Bunches Moving in Oversized Corrugated Waveguides. Physical Review Letters, 2016, 117, 204801.	2.9	45
84	Short-wave radiation generation by strip electron beams in the surface-wave excitation mode. Journal of Communications Technology and Electronics, 2016, 61, 501-509.	0.2	0
85	Coherent Summation of Emission From Relativistic Cherenkov Sources as a Way of Production of Extremely High-Intensity Microwave Pulses. IEEE Transactions on Plasma Science, 2016, 44, 377-385.	0.6	19
86	Generation of a periodic sequence of powerful ultrashort pulses in a traveling wave tube with bleachable absorber in the feedback loop. Technical Physics Letters, 2015, 41, 836-839.	0.2	20
87	Dynamics of semiconductor lasers with two-dimensional distributed feedback. Physical Review A, 2015, 91, .	1.0	10
88	Generation of Electromagnetic Fields of Extremely High Intensity by Coherent Summation of Cherenkov Superradiance Pulses. Physical Review Letters, 2015, 115, 114802.	2.9	71
89	Mechanisms of amplification of ultrashort electromagnetic pulses in gyrotron traveling wave tube with helically corrugated waveguide. Physics of Plasmas, 2015, 22, .	0.7	22
90	Two Ways for High-Power Generation of Subterahertz Radiation by Usage of Strong Relativistic Electron Beams. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 478-485.	2.0	14

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91	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
92	Time-domain theory of gyrotron traveling wave amplifiers operating at grazing incidence. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	15
93	Wave propagation in oversized planar waveguides with weakly corrugated surface. <i>Journal of Communications Technology and Electronics</i> , 2014, 59, 1426-1433.	0.2	0
94	A traveling-wave ring resonator with Bragg deflectors in a two-stage terahertz free-electron laser. <i>Technical Physics Letters</i> , 2014, 40, 730-734.	0.2	9
95	Spectral dynamics of mm-wave radiation from two-channel planar FEM with two dimensional distributed feedback. , 2014, , .		0
96	Spectral dynamics of MM-radiation from two-channel planar FEM with two dimensional distributed feedback. , 2014, , .		0
97	Undulator superradiance effect and its applicability for the generation of multimegawatt terahertz pulses. <i>Journal of Experimental and Theoretical Physics</i> , 2014, 119, 632-640.	0.2	10
98	Quasioptical Theory of Relativistic ÅEerenkov Generators and Amplifiers. <i>Radiophysics and Quantum Electronics</i> , 2014, 56, 508-531.	0.1	3
99	Generation of a spatially coherent field structure in free-electron masers with 2D distributed feedback. <i>Technical Physics</i> , 2014, 59, 250-257.	0.2	4
100	Frequency-angle characteristics of superradiance pulses generated by ultrarelativistic electron bunches propagating in an undulator field. <i>Technical Physics Letters</i> , 2014, 40, 72-76.	0.2	0
101	Electron-optical systems for planar gyrotrons. <i>Physics of Plasmas</i> , 2014, 21, 023106.	0.7	24
102	Structures with twoâ€dimensional distributed feedback for a laser realization on Si:Er basis. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014, 11, 195-199.	0.8	1
103	Modulation of high-intensity microwave radiation during its resonant interaction with counterflow of nonexcited cyclotron oscillators. <i>Technical Physics Letters</i> , 2014, 40, 495-498.	0.2	1
104	Mechanisms of amplification of short electromagnetic pulses in gyroresonance traveling-wave tubes. <i>Journal of Communications Technology and Electronics</i> , 2014, 59, 798-804.	0.2	0
105	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
106	Evanescent waves propagation along a periodically corrugated surface and their amplification by relativistic electron beam (quasi-optical theory). <i>Physics of Plasmas</i> , 2013, 20, .	0.7	9
107	Quasi-optical theory of coaxial and cylindrical relativistic surface-wave oscillators. <i>Technical Physics</i> , 2013, 58, 267-276.	0.2	9
108	A spatially developed coaxial 30-GHz backward wave oscillator with radiation synchronization by a two-dimensional Bragg structure. <i>Technical Physics Letters</i> , 2013, 39, 509-513.	0.2	0

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109	Relativistic electron beam induced amplification of surface wave propagating over a corrugated metal surface. Technical Physics Letters, 2013, 39, 294-298.	0.2	1
110	Quasi-optical theory of radiation amplification by electron flow above resistive metal surface. Technical Physics Letters, 2013, 39, 123-126.	0.2	5
111	The quasi-optical theory of surface wave formation over structures with one- and two-dimensional periodic corrugations of a small depth. Journal of Communications Technology and Electronics, 2013, 58, 487-497.	0.2	2
112	Self-similar regimes of short electromagnetic pulses amplification and compression by quasi-stationary electron beams. , 2013, , .		1
113	3D Quasioptical Theory of Terahertz Superradiance of an Extended Electron Bunch Moving Over a Corrugated Surface. Physical Review Letters, 2013, 110, 184801.	2.9	15
114	Stimulated Cherenkov radiation of a relativistic electron beam moving over a periodically corrugated surface (quasi-optical theory). Journal of Experimental and Theoretical Physics, 2013, 117, 975-987.	0.2	4
115	Generation of powerful narrow-band 75-GHz radiation in a free-electron maser with two-dimensional distributed feedback. Technical Physics Letters, 2013, 39, 801-804.	0.2	16
116	Class D lasers vs. class B lasers: Dynamical spectra analysis. , 2013, , .		0
117	Oversized co-axial and cylindrical surface-wave oscillators with two-dimensional periodical grating (quasi-optical model). Journal of Applied Physics, 2013, 113, .	1.1	29
118	Generation, Amplification, and Nonlinear Self-Compression of Powerful Superradiance Pulses. IEEE Transactions on Plasma Science, 2013, 41, 646-660.	0.6	25
119	Three-dimensional particle-in-cell modeling of terahertz gyrotrons with cylindrical and planar configurations of the interaction space. Physics of Plasmas, 2013, 20, 043103.	0.7	14
120	Quasi-optical theory of relativistic surface-wave oscillators with one-dimensional and two-dimensional periodic planar structures. Physics of Plasmas, 2013, 20, .	0.7	15
121	Nonlinear theory of a free electron laser with a helical wiggler and an axial guide magnetic field. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	26
122	Frequency Selectivity of a Normal and a Hybrid Bragg Resonators. Plasma and Fusion Research, 2013, 8, 2406154-2406154.	0.3	1
123	Short-wavelength tunable Bragg reflectors based on coupling of propagating and cutoff waves: Modeling and experimental studies. Applied Physics Letters, 2012, 101, 083507.	1.5	8
124	Powerful surface-wave oscillators with two-dimensional periodic structures. Applied Physics Letters, 2012, 100, .	1.5	42
125	Experimental testing of short-wave variable-frequency Bragg reflectors based on coupling of propagating and quasi-critical waves. Technical Physics Letters, 2012, 38, 600-603.	0.2	0
126	Terahertz superradiance of an extended electron bunch propagating over a corrugated surface. Technical Physics Letters, 2012, 38, 951-954.	0.2	3

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127	High-Power Terahertz-Range Planar Gyrotrons with Transverse Energy Extraction. Physical Review Letters, 2012, 108, 105101.	2.9	46
128	Nonlinear dynamics of planar gyrotrons with transverse diffraction coupling of radiation. Technical Physics, 2012, 57, 1135-1142.	0.2	0
129	Relativistic surface-wave oscillators with 1D and 2D periodic structures. Technical Physics, 2012, 57, 1692-1705.	0.2	5
130	Narrow-band terahertz Bragg reflectors based on coupling of propagating and quasi-critical waves. Technical Physics, 2012, 57, 415-421.	0.2	1
131	Application of two-dimensional dynamic gain grating for generation of coherent radiation from spatially extended active media. Technical Physics, 2012, 57, 807-813.	0.2	0
132	Relativistic surface-wave generators based on two-dimensional periodic structures. Technical Physics Letters, 2012, 38, 188-192.	0.2	5
133	Using the lorentz transformation to simulate terahertz-range superradiance of picosecond electron bunches moving in an undulator field. Technical Physics Letters, 2012, 38, 531-534.	0.2	2
134	High-power THz range planar gyrotrons with transverse energy extraction. , 2011, , .		0
135	Electromagnetic pulse stopping under cyclotron resonance interaction with backward rectilinear electron beam. , 2011, , .		0
136	Submillimeter planar gyrotrons with transverse diffraction output of radiation. Technical Physics Letters, 2011, 37, 79-82.	0.2	4
137	Quasi-optical model of relativistic surface-wave generators for millimeter and submillimeter range. Technical Physics Letters, 2011, 37, 605-609.	0.2	10
138	Mode competition in free-electron masers with oversized planar Bragg resonators. Journal of Communications Technology and Electronics, 2011, 56, 433-441.	0.2	3
139	Self-induced transparency, compression, and stopping of electromagnetic pulses interacting with beams of unexcited classical oscillators. Journal of Experimental and Theoretical Physics, 2011, 113, 772-780.	0.2	14
140	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
141	Formation of the transverse field structure in terahertz planar free-electron lasers. Technical Physics, 2011, 56, 400-405.	0.2	1
142	Powerful Cherenkov oscillators with 2D distributed feedback. Technical Physics, 2011, 56, 1791-1801.	0.2	3
143	Experiment on pulse heating and surface degradation of a copper cavity powered by powerful 30ÅGHz free electron maser. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .	1.8	26
144	Powerful terahertz free electron lasers with hybrid Bragg reflectors. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .	1.8	13

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145	Quasi-optical theory of relativistic submillimeter surface-wave oscillators. Applied Physics Letters, 2011, 99, .	1.5	62
146	Nonlinear theory of coaxial free-electron masers with 2D distributed feedback (quasi-optical) Tj ETQq0 0 0 rgBT /Overlock 10 Jf 50 702 T	0.2	2
147	Collective spontaneous emission in a distributed feedback laser with an inhomogeneously broadened active medium. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 904-907.	0.1	2
148	Cherenkov masers with two-dimensional distributed feedback. Technical Physics Letters, 2010, 36, 83-87.	0.2	13
149	Free-electron maser with high-selectivity Bragg resonator using coupled propagating and trapped modes. Technical Physics Letters, 2010, 36, 952-956.	0.2	8
150	Terahertz free-electron lasers with bragg structures based on the coupling between traveling and quasicritical waves. JETP Letters, 2010, 91, 266-270.	0.4	20
151	Effect of the nonlinear compression of ultrashort microwave pulses in the process of the amplification by quasistationary electron beams. JETP Letters, 2010, 91, 553-557.	0.4	21
152	Cherenkov oscillators with two-dimensional distributed feedback. , 2010, , .		1
153	Self-Induced Transparency and Electromagnetic Pulse Compression in a Plasma or an Electron Beam under Cyclotron Resonance Conditions. Physical Review Letters, 2010, 105, 265001.	2.9	17
154	Nonlinear dynamics of a terahertz band FEL with advanced Bragg resonators. , 2010, , .		0
155	FEM with high-selective Bragg resonator based on coupling of propagating and cutoff waves. , 2010, , .		0
156	10.1007/s11448-008-3002-4. , 2010, 87, 124.		0
157	10.1007/s11455-008-2008-4. , 2010, 34, 113.		0
158	Theory of free electron laser with terahertz band Bragg reflector. , 2009, , .		0
159	Masers and lasers with two-dimensional distributed feedback. , 2009, , .		0
160	Using two-dimensional Bragg structures for the synchronization of radiation in planar backward wave oscillators. Technical Physics Letters, 2009, 35, 190-192.	0.2	4
161	Free-electron masers based on planar Bragg waveguides. Technical Physics Letters, 2009, 35, 540-544.	0.2	0
162	Amplification of ultrashort electromagnetic pulses propagating along quasi-continuous electron beams. Technical Physics, 2009, 54, 103-109.	0.2	9

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163	Frequency stabilization in free-electron masers with 2D and 1D distributed feedback. Technical Physics, 2009, 54, 1384-1388.	0.2	1
164	Tunable terahertz band planar Bragg reflectors. Applied Physics Letters, 2009, 95, .	1.5	41
165	Production of Powerful Spatially Coherent Radiation in Planar and Coaxial FEM Exploiting Two-Dimensional Distributed Feedback. IEEE Transactions on Plasma Science, 2009, 37, 1792-1800.	0.6	14
166	Using two-dimensional distributed feedback for the synchronization of emission from laser active media. Technical Physics Letters, 2008, 34, 113-117.	0.2	3
167	Nonstationary 2D models of the electron-wave interaction. Technical Physics, 2008, 53, 633-640.	0.2	0
168	Generation of giant pulses of scattered radiation on the moving front of a pump wave. JETP Letters, 2008, 87, 124-127.	0.4	2
169	Generation of spatially coherent radiation in free-electron masers with two-dimensional distributed feedback. JETP Letters, 2008, 87, 618-622.	0.4	37
170	Production of powerful spatially coherent radiation based on two-dimensional distributed feedback. , 2008, , .		0
171	Observation of the high-Q modes inside the resonance zone of two-dimensional Bragg structures. Applied Physics Letters, 2008, 92, .	1.5	14
172	Two-dimensional Bragg structures for powerful planar FEM (modeling and experimental testing). , 2008, , .		0
173	Frequency increasing and power enhancement of microwave sources based on superradiance from intense electron bunch. , 2008, , .		0
174	Novel schemes of production and amplification of superradiance pulses by short intense electron beams. , 2007, , .		0
175	Two dimensional Bragg structures (modeling and experimental testing selective properties). , 2007, , .		0
176	Development of FEM based on coupling of propagating and trapped waves in advanced Bragg resonators. , 2007, , .		0
177	Open planar Bragg waveguides for mode selection in quantum and classical amplifiers. Laser Physics, 2007, 17, 665-671.	0.6	1
178	Effect of dispersion on the operation of free-electron lasers driven by short electron bunches. Technical Physics, 2007, 52, 141-147.	0.2	0
179	Experimental observation of high-Q modes at the center of a resonance band of two-dimensional Bragg structures. Technical Physics Letters, 2007, 33, 117-121.	0.2	2
180	Mechanism of free electron maser self-excitation using coupled propagating and trapped modes. Technical Physics Letters, 2006, 32, 896-900.	0.2	9

#	ARTICLE	IF	CITATIONS
181	Production of ultra-short high-power microwave pulses in Čerenkov backward-wave systems (Review). Laser Physics, 2006, 16, 79-88.	0.6	3
182	Controllable spectrum of an axial-mode gyrotron with external reflections. Technical Physics, 2006, 51, 78-81.	0.2	11
183	Feasibility of using a free-electron maser with a Bragg resonator for testing high-Q resonant structures. Technical Physics, 2006, 51, 887-893.	0.2	2
184	Theory of a planar free-electron maser with transverse electromagnetic flux circulation in a 2D Bragg mirror. Technical Physics, 2006, 51, 1618-1623.	0.2	3
185	Generation of Cherenkov superradiance pulses with a peak power exceeding the power of the driving short electron beam. Physical Review E, 2006, 74, 016501.	0.8	107
186	Experimental observation of superradiance in the stimulated scattering of an intense microwave pump wave by a counterpropagating subnanosecond high-current relativistic electron bunch. JETP Letters, 2005, 82, 263-266.	0.4	12
187	Improving selectivity of free electron maser with 1D Bragg resonator using coupling of propagating and trapped waves. Physical Review Special Topics: Accelerators and Beams, 2005, 8, .	1.8	28
188	First Observation of the Chaotic Oscillations in the K-Band Gyro-BWO. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
189	Excitation of Several Axial Eigenmodes in Gyrotrons with Mismatched Window - Simulations and Experimental Studies. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
190	On the synthesis of radiation spectrum in a sectioned relativistic backward wave tube. Technical Physics Letters, 2003, 29, 164-167.	0.2	21
191	Cherenkov superradiance with a peak power higher than electron flow power. JETP Letters, 2003, 77, 266-269.	0.4	43
192	Ponderomotive effects in intense pumping wave action on electron and plasma bunches. Journal of Experimental and Theoretical Physics, 2003, 96, 904-914.	0.2	6
193	Effect of diffraction on the electrodynamic characteristics of two-dimensional coaxial Bragg resonators. Technical Physics, 2003, 48, 1554-1564.	0.2	3
194	Production of short microwave pulses with a peak power exceeding the driving electron beam power. Laser and Particle Beams, 2003, 21, 187-196.	0.4	57
195	Observation of Chaotic Dynamics in a Powerful Backward-Wave Oscillator. Physical Review Letters, 2002, 89, 108304.	2.9	32
196	Increasing of Peak Power of Superradiation Pulses by Variation of Accelerating Voltage. AIP Conference Proceedings, 2002, , .	0.3	2
197	Project of Powerful 4-beam Planar FEM with Distributed Feedback for 75 GHz Band. AIP Conference Proceedings, 2002, , .	0.3	0
198	Recent Results in Generation of Powerful Pulses of 75GHz Radiation at ELM1-Device. AIP Conference Proceedings, 2002, , .	0.3	0

#	ARTICLE	IF	CITATIONS
199	Experimental studies of two-dimensional coaxial Bragg structures for a high-power free-electron maser. Applied Physics Letters, 2002, 80, 1517-1519.	1.5	47
200	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
201	Generation of subnanosecond microwave pulses based on the Cherenkov superradiance effect. Technical Physics, 2002, 47, 335-342.	0.2	1
202	Self-modulated generation observed in a delayed feedback relativistic microwave gyrotron. Technical Physics Letters, 2002, 28, 395-398.	0.2	5
203	A two-dimensional distributed feedback used for synchronization of a multibeam planar free-electron maser system. Technical Physics Letters, 2001, 27, 240-244.	0.2	4
204	Highly efficient relativistic SHF gyrotron with a microsecond pulse width. Technical Physics Letters, 2001, 27, 266-270.	0.2	2
205	Spatially coherent radiation from a coaxial free-electron laser with a resonator composed of one-dimensional and two-dimensional Bragg mirrors. Technical Physics, 2001, 46, 1009-1013.	0.2	2
206	Chaotic generation in a megawatt backward-wave tube. Technical Physics, 2001, 46, 1420-1427.	0.2	1
207	The simulation of a free-electron laser amplifier with a ribbon relativistic electron beam. Technical Physics, 2001, 46, 1545-1548.	0.2	3
208	Nonstationary processes in a diffraction-output orotron. Technical Physics, 2000, 45, 480-485.	0.2	9
209	Theory of cyclotron superradiance from a moving electron bunch under group synchronism conditions. Technical Physics, 2000, 45, 813-820.	0.2	2
210	Planar two-dimensional Bragg resonators with corrugated surfaces: Theory and experiment. Technical Physics Letters, 2000, 26, 348-351.	0.2	4
211	Longitudinal self-focusing of an electron bunch under coherent emission conditions. Technical Physics Letters, 2000, 26, 650-653.	0.2	2
212	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
213	Planar free-electron lasers with combined 1D/2D Bragg mirror resonators: A theoretical study. Technical Physics Letters, 2000, 26, 701-704.	0.2	7
214	Self-Amplification of Coherent Spontaneous Emission in a Cherenkov Free-Electron Maser. Physical Review Letters, 2000, 84, 2393-2396.	2.9	25
215	High-Efficiency Single-Mode Free-Electron Maser Oscillator Based on a Bragg Resonator with Step of Phase of Corrugation. Physical Review Letters, 2000, 84, 3574-3577.	2.9	75
216	Theory and design of a free-electron maser with two-dimensional feedback driven by a sheet electron beam. Physical Review E, 1999, 60, 935-945.	0.8	67

#	ARTICLE	IF	CITATIONS
217	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
218	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
219	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
220	Theory of group synchronism in free-electron waveguide lasers fed a sequence of short electron pulses. <i>Technical Physics</i> , 1999, 44, 203-208.	0.2	1
221	Possibility of using a large orbit regime for operation at bounce-frequency harmonics in a free-electron maser with a guiding magnetic field. <i>Technical Physics Letters</i> , 1999, 25, 12-14.	0.2	5
222	Possible emission of supermodes in a free electron laser with a transversely developed interaction space. <i>Technical Physics Letters</i> , 1999, 25, 179-181.	0.2	0
223	Theory of the undulator superradiance of an electron beam pulse in the group synchronism regime. <i>Technical Physics Letters</i> , 1999, 25, 296-299.	0.2	0
224	High-efficiency narrow-band free-electron maser using a Bragg cavity with a phase discontinuity in the ripples. <i>Technical Physics Letters</i> , 1999, 25, 429-432.	0.2	7
225	Possible use of two-dimensional Bragg structures in an FEL amplifier powered by a sheet electron beam. <i>Technical Physics Letters</i> , 1999, 25, 796-799.	0.2	3
226	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
227	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
228	A proposal to use reflection with delay for achieving the self-modulation and stochastic regimes in millimeter-wave gyrotrons. <i>Technical Physics Letters</i> , 1998, 24, 436-438.	0.2	36
229	Observation of self-modulation regimes of generation in high-power backward-wave tubes. <i>Technical Physics Letters</i> , 1998, 24, 816-818.	0.2	2
230	Experimental Observation of Cyclotron Superradiance under Group Synchronism Conditions. <i>Physical Review Letters</i> , 1997, 78, 2365-2368.	2.9	96
231	Amplification of monochromatic short-wavelength radiation during the stochastic deceleration of a relativistic electron stream in an incoherent pump field. <i>Technical Physics</i> , 1997, 42, 788-792.	0.2	2
232	Cyclotron superradiance of a high-current electron bunch under group synchronism conditions. <i>Russian Physics Journal</i> , 1996, 39, 1233-1240.	0.2	1
233	Experimental observation of cyclotron superradiance. <i>JETP Letters</i> , 1996, 63, 331-335.	0.4	15
234	Stimulated Coherent Emission from Short Electron Bunches in Free Space. <i>Physical Review Letters</i> , 1996, 77, 1492-1495.	2.9	18

#	ARTICLE	IF	CITATIONS
235	Theory of non-stationary processes in gyrotrons with low Q resonators. International Journal of Electronics, 1986, 61, 881-894.	0.9	167
236	Self-oscillation in uhf generators with diffraction radiation output. Radiophysics and Quantum Electronics, 1986, 29, 89-97.	0.1	26
237	Stimulated scattering of waves in microwave generators with high-current relativistic electron beams: simulation of two-stage free-electron lasers. International Journal of Electronics, 1985, 59, 247-289.	0.9	48
238	Multifrequency generation in free-electron lasers with quasi-optical resonators. International Journal of Electronics, 1985, 59, 291-314.	0.9	47
239	Investigations of Powerful Gyrotrons. , 1982, , .		2
240	Relativistic gyrotrons and cyclotron autoresonance masers. International Journal of Electronics, 1981, 51, 541-567.	0.9	286
241	Nonlinear theory of electromagnetic wave generation and amplification based on the anomalous Doppler effect. Radiophysics and Quantum Electronics, 1979, 22, 323-330.	0.1	22
242	Theory of transients in relativistic backward-wave tubes. Radiophysics and Quantum Electronics, 1978, 21, 728-739.	0.1	105