

# Viacheslav Popov

## List of Publications by Year in descending order

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197  
papers

3,278  
citations

126708

33  
h-index

161609

54  
g-index

199  
all docs

199  
docs citations

199  
times ranked

1616  
citing authors

#	ARTICLE	IF	CITATIONS
1	Terahertz emission by plasma waves in 60 nm gate high electron mobility transistors. Applied Physics Letters, 2004, 84, 2331-2333.	1.5	300
2	Ultrahigh sensitive sub-terahertz detection by InP-based asymmetric dual-grating-gate high-electron-mobility transistors and their broadband characteristics. Applied Physics Letters, 2014, 104, .	1.5	158
3	Plasmonic terahertz detection by a double-grating-gate field-effect transistor structure with an asymmetric unit cell. Applied Physics Letters, 2011, 99, .	1.5	143
4	Temperature dependence of plasmonic terahertz absorption in grating-gate gallium-nitride transistor structures. Applied Physics Letters, 2010, 96, 042105.	1.5	131
5	Absorption of terahertz radiation by plasmon modes in a grid-gated double-quantum-well field-effect transistor. Journal of Applied Physics, 2003, 94, 3556-3562.	1.1	114
6	Plasmonic terahertz lasing in an array of graphene nanocavities. Physical Review B, 2012, 86, .	1.1	101
7	Emission and Detection of Terahertz Radiation Using Two-Dimensional Electrons in III-V Semiconductors and Graphene. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 63-71.	2.0	98
8	Resonant excitation of plasma oscillations in a partially gated two-dimensional electron layer. Journal of Applied Physics, 2005, 98, 033510.	1.1	86
9	Radiative decay of plasmons in a metallic nanoshell. Physical Review B, 2004, 69, .	1.1	83
10	Void plasmons and total absorption of light in nanoporous metallic films. Physical Review B, 2005, 71, .	1.1	82
11	Terahertz ratchet effects in graphene with a lateral superlattice. Physical Review B, 2016, 93, .	1.1	77
12	Oblique terahertz plasmons in graphene nanoribbon arrays. Physical Review B, 2010, 81, .	1.1	74
13	Ultrahigh sensitive plasmonic terahertz detector based on an asymmetric dual-grating gate HEMT structure. Solid-State Electronics, 2012, 78, 109-114.	0.8	71
14	Plasmon Excitation and Plasmonic Detection of Terahertz Radiation in the Grating-Gate Field-Effect-Transistor Structures. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 1178-1191.	1.2	70
15	InP- and GaAs-Based Plasmonic High-Electron-Mobility Transistors for Room-Temperature Ultrahigh-Sensitive Terahertz Sensing and Imaging. IEEE Sensors Journal, 2013, 13, 89-99.	2.4	69
16	Tailoring Terahertz Near-Field Enhancement via Two-Dimensional Plasmons. Physical Review Letters, 2012, 108, 127401.	2.9	58
17	Room temperature terahertz emission from grating coupled two-dimensional plasmons. Applied Physics Letters, 2008, 92, .	1.5	55
18	Emission of terahertz radiation from dual grating gate plasmon-resonant emitters fabricated with InGaP/InGaAs/GaAs material systems. Journal of Physics Condensed Matter, 2008, 20, 384206.	0.7	53

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19	Room temperature detection of sub-terahertz radiation in double-grating-gate transistors. Optics Express, 2010, 18, 6024.	1.7	51
20	Terahertz rectification by periodic two-dimensional electron plasma. Applied Physics Letters, 2013, 102, .	1.5	50
21	High-responsivity terahertz detection by on-chip InGaAs/GaAs field-effect-transistor array. Applied Physics Letters, 2011, 98, .	1.5	49
22	HIGHER-ORDER PLASMON RESONANCES IN GAN-BASED FIELD-EFFECT TRANSISTOR ARRAYS. International Journal of High Speed Electronics and Systems, 2007, 17, 557-566.	0.3	48
23	Transformation of the plasmon spectrum in a grating-gate transistor structure with spatially modulated two-dimensional electron channel. Semiconductors, 2010, 44, 1406-1413.	0.2	47
24	Strong coupling of light to flat metals via a buried nanovoid lattice: the interplay of localized and free plasmons. Optics Express, 2006, 14, 1965.	1.7	45
25	Plasmon enhanced electron drag and terahertz photoconductance in a grating-gated field-effect transistor with two-dimensional electron channel. Applied Physics Letters, 2006, 89, 143512.	1.5	45
26	Amplification and lasing of terahertz radiation by plasmons in graphene with a planar distributed Bragg resonator. Journal of Optics (United Kingdom), 2013, 15, 114009.	1.0	44
27	Current-driven detection of terahertz radiation using a dual-grating-gate plasmonic detector. Applied Physics Letters, 2014, 104, .	1.5	43
28	Room-Temperature Amplification of Terahertz Radiation by Grating-Gate Graphene Structures. Physical Review X, 2020, 10, .	2.8	43
29	Tuning of ungated plasmons by a gate in the field-effect transistor with two-dimensional electron channel. Journal of Applied Physics, 2008, 104, 024508.	1.1	42
30	Giant plasmon instability in a dual-grating-gate graphene field-effect transistor. Physical Review B, 2016, 93, .	1.1	42
31	Terahertz plasmon photoresponse in a density modulated two-dimensional electron channel of a GaAs <sup>+</sup> AlGaAs field-effect transistor. Applied Physics Letters, 2007, 91, .	1.5	40
32	Graphene surface emitting terahertz laser: Diffusion pumping concept. Applied Physics Letters, 2013, 103, 251102.	1.5	40
33	Terahertz plasmonic rectification in a spatially periodic graphene. Applied Physics Letters, 2017, 110, .	1.5	36
34	Enhanced electromagnetic coupling between terahertz radiation and plasmons in a grating-gate transistor structure on membrane substrate. Optics Express, 2010, 18, 16771.	1.7	33
35	Noncentrosymmetric plasmon modes and giant terahertz photocurrent in a two-dimensional plasmonic crystal. Physical Review B, 2015, 91, .	1.1	30
36	Electromagnetic emission from two-dimensional plasmons in a semiconductor-dielectric structure with metal grating: Rigorous theory. Journal of Infrared, Millimeter and Terahertz Waves, 1993, 14, 1455-1470.	0.6	28

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37	Broadening of the plasmon resonance due to plasmon-plasmon intermode scattering in terahertz high-electron-mobility transistors. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	27
38	Plasmonic amplification of terahertz radiation in a periodic graphene structure with the carrier injection. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	27
39	Plasma wave instability and amplification of terahertz radiation in field-effect-transistor arrays. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 384208.	0.7	26
40	Mie plasmon enhanced diffraction of light from nanoporous metal surfaces. <i>Optics Express</i> , 2006, 14, 11964.	1.7	22
41	Strong terahertz absorption bands in a scaled plasmonic crystal. <i>Applied Physics Letters</i> , 2007, 90, 251910.	1.5	22
42	Active guiding of Dirac plasmons in graphene. <i>Applied Physics Letters</i> , 2015, 106, 061105.	1.5	22
43	Downconversion of terahertz radiation due to intrinsic hydrodynamic nonlinearity of a two-dimensional electron plasma. <i>Physical Review B</i> , 2015, 91, .	1.1	21
44	Cooperative absorption of terahertz radiation by plasmon modes in an array of field-effect transistors with two-dimensional electron channel. <i>Applied Physics Letters</i> , 2006, 89, 123504.	1.5	19
45	Spectrum of plasma oscillations in structures with a periodically inhomogeneous two-dimensional electron plasma. <i>Journal of Experimental and Theoretical Physics</i> , 1998, 86, 538-544.	0.2	18
46	Total light absorption in plasmonic nanostructures. <i>Journal of Optics</i> , 2007, 9, S458-S462.	1.5	17
47	Enhanced terahertz detection of multigate graphene nanostructures. <i>Nanophotonics</i> , 2022, 11, 519-529.	2.9	17
48	Giant cross-polarization conversion of terahertz radiation by plasmons in an active graphene metasurface. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	15
49	Magnetic quantum ratchet effect in (Cd,Mn)Te- and CdTe-based quantum well structures with a lateral asymmetric superlattice. <i>Physical Review B</i> , 2017, 95, .	1.1	15
50	Graphene-based plasmonic metamaterial for terahertz laser transistors. <i>Nanophotonics</i> , 2022, 11, 1677-1696.	2.9	15
51	Plasmon-induced terahertz absorption and photoconductivity in a grid-gated double-quantum-well structure. <i>Physics of the Solid State</i> , 2004, 46, 153-156.	0.2	14
52	Total Resonant Absorption of Light by Plasmons on the Nanoporous Surface of a Metal. <i>Physics of the Solid State</i> , 2005, 47, 178.	0.2	14
53	Localized and collective magnetoplasmon excitations in AlGaIn/GaN-based grating-gate terahertz modulators. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	14
54	Spectrum of polariton excitations of a two-dimensional electron plasma in a magnetic field. <i>JETP Letters</i> , 1998, 68, 210-215.	0.4	13

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55	Anticrossing of plasmon resonances and giant enhancement of interlayer terahertz electric field in an asymmetric bilayer of two-dimensional electron strips. <i>Journal of Applied Physics</i> , 2006, 99, 124303.	1.1	13
56	The plasma oscillations spectrum of a periodically inhomogeneous 2D electron system near the perforation threshold. <i>Journal of Experimental and Theoretical Physics</i> , 2002, 95, 505-510.	0.2	12
57	Terahertz detection in a slit-grating-gate field-effect-transistor structure. <i>Solid-State Electronics</i> , 2013, 86, 64-67.	0.8	12
58	Giant amplification of terahertz plasmons in a double-layer graphene. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 08LT02.	0.7	12
59	Smaller antenna-gate gap for higher sensitivity of GaN/AlGaN HEMT terahertz detectors. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	12
60	The Resonant Terahertz Response of a Slot Diode with a Two-Dimensional Electron Channel. <i>Semiconductors</i> , 2005, 39, 142.	0.2	11
61	Wide-aperture detector of terahertz radiation based on GaAs/InGaAs transistor structure with large-area slit grating gate. <i>Technical Physics Letters</i> , 2010, 36, 365-368.	0.2	11
62	Amplification of terahertz radiation in a plasmon "i" graphene structure with charge-carrier injection. <i>Semiconductors</i> , 2017, 51, 1460-1465.	0.2	11
63	Observation of terahertz plasmon and plasmon-polariton splitting in a grating-coupled AlGaN/GaN heterostructure. <i>Optics Express</i> , 2018, 26, 31794.	1.7	11
64	Detection of terahertz radiation by tightly concatenated InGaAs field-effect transistors integrated on a single chip. <i>Applied Physics Letters</i> , 2014, 104, 163508.	1.5	10
65	Paving the Way for Tunable Graphene Plasmonic THz Amplifiers. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	10
66	Terahertz Lasing with Weak Plasmon Modes in Periodic Graphene Structures. <i>Physical Review Applied</i> , 2021, 15, .	1.5	9
67	Optical pumping through a black-As absorbing-cooling layer in graphene-based heterostructure: thermo-diffusion model. <i>Optical Materials Express</i> , 2019, 9, 4061.	1.6	9
68	Tunable terahertz detection based on a grating-gated double-quantum-well FET. <i>Semiconductor Science and Technology</i> , 2004, 19, S71-S73.	1.0	8
69	Giant light absorption by plasmons in a nanoporous metal film. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005, 202, 362-366.	0.8	8
70	Plasmon resonances in a gated two-dimensional electron system with lateral contacts. <i>Technical Physics Letters</i> , 2010, 36, 272-275.	0.2	8
71	Amplification of plasma waves in shielded active graphene. <i>Technical Physics Letters</i> , 2016, 42, 40-42.	0.2	8
72	Terahertz plasmon amplification in a double-layer graphene structure with direct electric current in hydrodynamic regime. <i>Physical Review B</i> , 2021, 103, .	1.1	8

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73	Optical pumping in graphene-based terahertz/far-infrared superluminescent and laser heterostructures with graded-gap black-PxAs <sub>1-x</sub> absorbing-cooling layers. <i>Optical Engineering</i> , 2019, 59, 1.	0.5	8
74	Hydrodynamic Terahertz Plasmons and Electron Sound in Graphene with Spatial Dispersion. <i>Semiconductors</i> , 2020, 54, 941-945.	0.2	7
75	Room Temperature Terahertz Plasmonic Detection by Antenna Arrays of Field-Effect Transistors. <i>Nanoscience and Nanotechnology Letters</i> , 2012, 4, 1015-1022.	0.4	7
76	Tuneable coupling of surface plasmon-polaritons and Mie plasmons on a planar surface of nanoporous metal. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 3912-3915.	0.8	6
77	Suppression of the intermode plasmon scattering due to total internal reflection of oblique plasmons in a multichannel high-electron-mobility transistor. <i>Applied Physics Letters</i> , 2008, 93, 083501.	1.5	6
78	Electromagnetic renormalization of the plasmon spectrum in a laterally screened two-dimensional electron system. <i>JETP Letters</i> , 2012, 95, 85-90.	0.4	6
79	Detection of Terahertz Radiation by Dense Arrays of InGaAs Transistors. <i>International Journal of High Speed Electronics and Systems</i> , 2015, 24, 1550002.	0.3	6
80	Two-terminal terahertz detectors based on AlGaIn/GaN high-electron-mobility transistors. <i>Applied Physics Letters</i> , 2019, 115, 111101.	1.5	6
81	Amplified propagating plasmon in asymmetrical graphene periodic structure. <i>Journal of Physics Communications</i> , 2020, 4, 071001.	0.5	6
82	Total conversion of the polarization of electromagnetic waves during excitation of cyclotron polaritons in a two-dimensional electron system. <i>JETP Letters</i> , 1999, 70, 254-259.	0.4	5
83	Tunable anticrossing of gated and ungated plasma resonances and enhancement of interlayer terahertz electric field in an asymmetric bilayer of density-modulated two-dimensional electron gases. <i>Solid State Communications</i> , 2006, 140, 529-532.	0.9	5
84	Excitation of radiative polaritons in a two-dimensional excitonic layer by a light pulse. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 2428.	0.9	5
85	Ultrahigh sensitive plasmonic terahertz detector based on an asymmetric dual-grating gate HEMT structure. , 2011, , .		5
86	Polarization-dependent plasmonic photocurrents in two-dimensional electron systems. <i>Applied Physics Letters</i> , 2016, 108, 261104.	1.5	5
87	Negative terahertz conductivity of graphene when pumping by optical plasmons. <i>Technical Physics Letters</i> , 2017, 43, 523-526.	0.2	5
88	Giant effect of terahertz-radiation rectification in periodic graphene plasmonic structures. <i>Semiconductors</i> , 2017, 51, 1500-1504.	0.2	5
89	Electrical Tunability of Terahertz Amplification in a Periodic Plasmon Graphene Structure with Charge-Carrier Injection. <i>Semiconductors</i> , 2018, 52, 1534-1539.	0.2	5
90	Recent advances in the research toward graphene-based terahertz lasers. , 2015, , .		4

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91	Nanofocusing and deceleration of terahertz plasma waves in tapered metal-insulator-graphene heterostructure. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 34LT02.	0.7	4
92	The role of radiative damping in shaping of the cyclotron resonance line in a two-dimensional electron system. <i>Technical Physics Letters</i> , 2001, 27, 193-194.	0.2	3
93	Terahertz excitation of the higher-order plasmon modes in field-effect transistor arrays with common and separate two-dimensional electron channels. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2007, 71, 89-92.	0.1	3
94	Plasmon-plasmon scattering and giant broadening of the gated plasmon resonance line in a nanometric heterotransistor with a 2D electron channel. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2009, 73, 84-87.	0.1	3
95	Plasmonic Terahertz Monochromatic Coherent Emission from an Asymmetric Chirped Dual-Grating-Gate InP-HEMT with a Photonic Vertical Cavity. , 2013, , .		3
96	Nanometer near-field localization and enhancement in a split two-dimensional plasmonic system at terahertz frequencies. <i>Optics Communications</i> , 2014, 315, 352-355.	1.0	3
97	Ultra-broadband near-field antenna for terahertz plasmonic applications. <i>Semiconductors</i> , 2015, 49, 104-108.	0.2	3
98	Amplification of THz radiation in graphene with direct electric current. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	3
99	Electrically controllable active plasmonic directional coupler of terahertz signal based on a periodical dual grating gate graphene structure. <i>Scientific Reports</i> , 2021, 11, 11431.	1.6	3
100	Conversion of the polarization of an electromagnetic wave under cyclotron resonance in a two-dimensional electron system. <i>Technical Physics Letters</i> , 1999, 25, 855-857.	0.2	2
101	Guided plasmon-polaritons in a planar Bragg microresonator with a two-dimensional electron system. <i>Nanotechnology</i> , 2001, 12, 480-484.	1.3	2
102	Plasma oscillations in field-effect transistor arrays. , 2008, , .		2
103	Terahertz detection in a double-grating-gate heterotransistor. <i>Journal of Physics: Conference Series</i> , 2009, 193, 012074.	0.3	2
104	Plasmonic terahertz monochromatic coherent emission from an asymmetric chirped dual-grating-gate InP-HEMT with a photonic vertical cavity. , 2013, , .		2
105	Superradiant amplification of terahertz radiation by plasmons in inverted graphene with a planar distributed Bragg resonator. <i>Semiconductors</i> , 2015, 49, 1468-1472.	0.2	2
106	Excitation of plasmonic terahertz photovoltaic effects in a periodic two-dimensional electron system by the attenuated total reflection method. <i>Semiconductors</i> , 2015, 49, 23-27.	0.2	2
107	Cooperative promotion of plasma instabilities for emission of terahertz radiation in an asymmetric dual-grating-gate graphene-channel FET. , 2016, , .		2
108	The origin of distorted intensity pattern sensed by a lens and antenna coupled AlGaIn/GaN-HEMT terahertz detector*. <i>Chinese Physics B</i> , 2019, 28, 118502.	0.7	2

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109	On the Amplification of Terahertz Radiation by High-Q Resonant Plasmons in a Periodic Graphene Bilayer under Plasmon-Mode Anticrossing. <i>Semiconductors</i> , 2019, 53, 1211-1216.	0.2	2
110	Amplification of Terahertz Electromagnetic Waves in a Structure with Two Graphene Layers under a Direct Electric Current Flow: a Hydrodynamic Approximation. <i>Semiconductors</i> , 2021, 55, S30-S34.	0.2	2
111	Terahertz transverse electric modes in graphene with DC current in hydrodynamic regime. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 295301.	0.7	2
112	Influence of substrate thickness on plasma resonance in a semiconductor heterostructure with a two-dimensional electron gas. <i>Technical Physics Letters</i> , 1998, 24, 361-362.	0.2	1
113	Density distribution of a two-dimensional electron gas in a semiconducting heterostructure with a periodic gate electrode. <i>Technical Physics Letters</i> , 1999, 25, 15-16.	0.2	1
114	Influence of a thin conducting transverse layer on the properties of quasitransverse shear waves and Lamb waves in gallium arsenide plates. <i>Technical Physics Letters</i> , 1999, 25, 99-100.	0.2	1
115	The effect of interference in the substrate on the electromagnetic wave polarization transformation under cyclotron resonance conditions in a two-dimensional electron system. <i>Technical Physics Letters</i> , 2000, 26, 814-816.	0.2	1
116	Total polarization conversion in a two-dimensional electron system under cyclotron polariton resonance conditions. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2001, 3, S194-S197.	1.4	1
117	Tracing the interwell plasmon in a grid-gated double-quantum-well field-effect transistor. , 2005, 5772, 63.		1
118	TUNABLE GRID GATED DOUBLE-QUANTUM-WELL FET TERAHERTZ DETECTOR. <i>International Journal of High Speed Electronics and Systems</i> , 2008, 18, 147-157.	0.3	1
119	Effect of pump wave reflections on the excitation of a dual-wavelength vertical-cavity surface-emitting laser. <i>Semiconductors</i> , 2009, 43, 382-386.	0.2	1
120	Features of dual-wavelength generation in a vertical-external-cavity surface-emitting laser. <i>Technical Physics Letters</i> , 2010, 36, 344-347.	0.2	1
121	Resonant properties of the planar plasmonic crystal on a membrane substrate. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012, 76, 229-232.	0.1	1
122	Ultrahigh sensitive plasmonic terahertz detectors based on an asymmetric dual-grating gate HEMT structure. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
123	Extremely-high sensitive terahertz detector based on dual-grating gate InP-HEMTs. , 2013, , .		1
124	Amplification of terahertz radiation by stimulated emission of plasmons in graphene. , 2013, , .		1
125	Detection of terahertz and mid-infrared radiations by InP-based asymmetric dual-grating-gate HEMTs. , 2014, , .		1
126	Graphene Active Plasmonics for New Types of Terahertz Lasers. <i>International Journal of High Speed Electronics and Systems</i> , 2014, 23, 1450016.	0.3	1



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127	Detection of Terahertz Radiation by Dense Arrays of InGaAs Transistors. Selected Topics in Electronics and Systems, 2015, , 31-53.	0.2	1
128	Broadband characteristics of ultrahigh responsivity of asymmetric dual-grating-gate plasmonic terahertz detectors. , 2015, , .		1
129	Terahertz rectification by noncentrosymmetric plasmonic metasurface. , 2015, , .		1
130	Wide-aperture total absorption of a terahertz wave in a nanoperiodic graphene-based plasmon structure. Semiconductors, 2016, 50, 1543-1547.	0.2	1
131	Plasmonic absorption of THz radiation in graphene structure with a metal grating. Journal of Physics: Conference Series, 2017, 917, 062036.	0.3	1
132	Graphene plasmonic terahertz detector with high responsivity. Journal of Physics: Conference Series, 2017, 917, 062045.	0.3	1
133	Switching of terahertz plasmon propagating direction in a dual layer graphene with periodic grating gate. AIP Conference Proceedings, 2020, , .	0.3	1
134	Conversion of electromagnetic wave into propagating plasmon in a periodic graphene structure. AIP Conference Proceedings, 2021, , .	0.3	1
135	Graphene-based 2D-heterostructures for terahertz lasers and amplifiers. , 2019, , .		1
136	Magneto-optical interference effects in a structure featuring a 2D electron gas. Technical Physics Letters, 2000, 26, 1067-1069.	0.2	0
137	Resonant magneto-optical phenomena associated with eigen-oscillations of a two-dimensional electron plasma. Nanotechnology, 2001, 12, 619-624.	1.3	0
138	<title>Inhomogeneous luminescence of slow polaritons from near-surface two-dimensional excitonic system</title>. , 2002, , .		0
139	<title>Super-resonant conversion of far-infrared electromagnetic wave polarization in density-modulated two-dimensional electron plasma</title>. , 2002, , .		0
140	Angle dependence of chromatic polarization conversion of terahertz radiation by a density-modulated two-dimensional electron system. , 2003, , .		0
141	RESONANT MAGNETO-OPTICAL PHENOMENA IN STRUCTURES WITH TWO-DIMENSIONAL ELECTRON PLASMA. , 2004, , .		0
142	<title>Optical properties of polaritons in excitonic layers in symmetric and asymmetric dielectric environment</title>. , 2004, , .		0
143	Light absorption by polaritons in an interface layer with strong excitonic response: effects of retardation and total reflection. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 896-899.	0.8	0
144	Nonequilibrium Green's function theory of resonant steady state photoconduction in a double quantum well FET subject to THz radiation at plasmon frequency. Journal of Physics: Conference Series, 2006, 35, 275-290.	0.3	0

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145	Dyadic Green's function analysis of the non-stationary nanoelectrodynamic polaritonic response of a twodimensional excitonic layer. Journal of Physics: Conference Series, 2006, 35, 297-306.	0.3	0
146	Tunable Screening of Inter-Contact Plasmons by a Recessed Gate in Field-Effect Transistor with Two-Dimensional Electron Channel. , 2007, , .		0
147	Inhomogeneous 2D polariton radiation excited by a finite electromagnetic wave train. , 2007, , .		0
148	Plasmon Resonances in the Terahertz Photoresponse of Homogeneous 2D Electron System with Grating Gate. AIP Conference Proceedings, 2007, , .	0.3	0
149	Photonic absorption bands in the spectra of nanoporous metallic films. Physics of the Solid State, 2007, 49, 1264-1267.	0.2	0
150	Temporal dynamics of radiative polariton modes in a two-dimensional excitonic layer. Technical Physics Letters, 2007, 33, 176-179.	0.2	0
151	Plasmon-plasmon scattering in two-dimensional electron channel of a terahertz nanotransistor. , 2008, , .		0
152	Optical pumping of non-identical quantum wells in an active region of semiconductor vertical-external-cavity surface-emitting laser. , 2008, , .		0
153	Room temperature generation of terahertz radiation from dual grating gate HEMTâ€™s. , 2008, , .		0
154	Room temperature terahertz emission from two-dimensional plasmons in doubly interdigitated grating gate heterostructure transistors. , 2008, , .		0
155	Terahertz plasmons in grating-gate AlGaIn/GaN HEMTs. , 2009, , .		0
156	Efficiency enhancement of emission of terahertz radiation by optical excitation from dual grating gate HEMT. Journal of Nanophotonics, 2009, 3, 031980.	0.4	0
157	Enhancement of terahertz radiation by CW infrared laser excitation in a doubly interdigitated grating gates transistors. Journal of Physics: Conference Series, 2009, 193, 012071.	0.3	0
158	Trapped oblique plasmons and suppression of the intermode plasmon-plasmon scattering in multichannel nanoheterotransistor. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 78-81.	0.1	0
159	Resonance detection of terahertz radiation in nanometer field-effect transistors with two-dimensional electron gas. , 2010, , .		0
160	Plasmonic microdevices for terahertz frequencies. , 2010, , .		0
161	Dynamic regimes of a dual-wavelength vertical external cavity surface-emitting laser. , 2010, , .		0
162	Electromagnetic screening of plasmons in a two-dimensional electron system by lateral and topside gates. , 2011, , .		0

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163	Ultra-high Sensitive Plasmonic Terahertz Detection Using Asymmetric Dual-Grating Gate HEMT Structures. , 2012, , .		0
164	Amplification of terahertz radiation by plasmons in graphene with a planar Bragg grating. , 2013, , .		0
165	Graphene active plasmons toward the new types of terahertz lasers. , 2013, , .		0
166	Terahertz monochromatic coherent emission from an asymmetric chirped dual-grating-gate InP-HEMT with a photonic vertical cavity. , 2013, , .		0
167	Investigation of wide-aperture plasmonic detectors by a tightly focused terahertz beam. Journal of Physics: Conference Series, 2014, 486, 012013.	0.3	0
168	Amplification of terahertz radiation by plasmonic graphene metasurfaces. , 2014, , .		0
169	Terahertz rectification in a periodic two-dimensional electron plasma. Journal of Physics: Conference Series, 2014, 486, 012005.	0.3	0
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