

Viacheslav Popov

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155
papers

2,379
citations

29
h-index

45
g-index

199
ext. papers

2,994
ext. citations

1.9
avg, IF

4.92
L-index

#	Paper	IF	Citations
155	Terahertz emission by plasma waves in 60 nm gate high electron mobility transistors. <i>Applied Physics Letters</i> , 2004 , 84, 2331-2333	3.4	233
154	Plasmonic terahertz detection by a double-grating-gate field-effect transistor structure with an asymmetric unit cell. <i>Applied Physics Letters</i> , 2011 , 99, 243504	3.4	101
153	Absorption of terahertz radiation by plasmon modes in a grid-gated double-quantum-well field-effect transistor. <i>Journal of Applied Physics</i> , 2003 , 94, 3556-3562	2.5	97
152	Temperature dependence of plasmonic terahertz absorption in grating-gate gallium-nitride transistor structures. <i>Applied Physics Letters</i> , 2010 , 96, 042105	3.4	93
151	Ultrahigh sensitive sub-terahertz detection by InP-based asymmetric dual-grating-gate high-electron-mobility transistors and their broadband characteristics. <i>Applied Physics Letters</i> , 2014 , 104, 251114	3.4	84
150	Plasmonic terahertz lasing in an array of graphene nanocavities. <i>Physical Review B</i> , 2012 , 86,	3.3	73
149	Void plasmons and total absorption of light in nanoporous metallic films. <i>Physical Review B</i> , 2005 , 71,	3.3	71
148	. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013 , 3, 63-71	3.4	69
147	Radiative decay of plasmons in a metallic nanoshell. <i>Physical Review B</i> , 2004 , 69,	3.3	68
146	Resonant excitation of plasma oscillations in a partially gated two-dimensional electron layer. <i>Journal of Applied Physics</i> , 2005 , 98, 033510	2.5	63
145	Oblique terahertz plasmons in graphene nanoribbon arrays. <i>Physical Review B</i> , 2010 , 81,	3.3	58
144	Terahertz ratchet effects in graphene with a lateral superlattice. <i>Physical Review B</i> , 2016 , 93,	3.3	50
143	Tailoring terahertz near-field enhancement via two-dimensional plasmons. <i>Physical Review Letters</i> , 2012 , 108, 127401	7.4	49
142	Plasmon Excitation and Plasmonic Detection of Terahertz Radiation in the Grating-Gate Field-Effect-Transistor Structures. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011 , 32, 1178-1191	3.3	49
141	InP- and GaAs-Based Plasmonic High-Electron-Mobility Transistors for Room-Temperature Ultrahigh-Sensitive Terahertz Sensing and Imaging. <i>IEEE Sensors Journal</i> , 2013 , 13, 89-99	4	46
140	Ultrahigh sensitive plasmonic terahertz detector based on an asymmetric dual-grating gate HEMT structure. <i>Solid-State Electronics</i> , 2012 , 78, 109-114	1.7	45
139	Room temperature terahertz emission from grating coupled two-dimensional plasmons. <i>Applied Physics Letters</i> , 2008 , 92, 201108	3.4	44

138	Emission of terahertz radiation from dual grating gate plasmon-resonant emitters fabricated with InGaP/InGaAs/GaAs material systems. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 384206	1.8	42
137	Strong coupling of light to flat metals via a buried nanovoid lattice: the interplay of localized and free plasmons. <i>Optics Express</i> , 2006 , 14, 1965-72	3.3	42
136	Terahertz rectification by periodic two-dimensional electron plasma. <i>Applied Physics Letters</i> , 2013 , 102, 253504	3.4	38
135	High-responsivity terahertz detection by on-chip InGaAs/GaAs field-effect-transistor array. <i>Applied Physics Letters</i> , 2011 , 98, 153504	3.4	38
134	Room temperature detection of sub-terahertz radiation in double-grating-gate transistors. <i>Optics Express</i> , 2010 , 18, 6024-32	3.3	38
133	HIGHER-ORDER PLASMON RESONANCES IN GAN-BASED FIELD-EFFECT TRANSISTOR ARRAYS. <i>International Journal of High Speed Electronics and Systems</i> , 2007 , 17, 557-566	0.5	38
132	Plasmon enhanced electron drag and terahertz photoconductance in a grating-gated field-effect transistor with two-dimensional electron channel. <i>Applied Physics Letters</i> , 2006 , 89, 143512	3.4	38
131	Transformation of the plasmon spectrum in a grating-gate transistor structure with spatially modulated two-dimensional electron channel. <i>Semiconductors</i> , 2010 , 44, 1406-1413	0.7	37
130	Amplification and lasing of terahertz radiation by plasmons in graphene with a planar distributed Bragg resonator. <i>Journal of Optics (United Kingdom)</i> , 2013 , 15, 114009	1.7	36
129	Tuning of ungated plasmons by a gate in the field-effect transistor with two-dimensional electron channel. <i>Journal of Applied Physics</i> , 2008 , 104, 024508	2.5	34
128	Terahertz plasmon photoresponse in a density modulated two-dimensional electron channel of a GaAs/AlGaAs field-effect transistor. <i>Applied Physics Letters</i> , 2007 , 91, 163507	3.4	34
127	Enhanced electromagnetic coupling between terahertz radiation and plasmons in a grating-gate transistor structure on membrane substrate. <i>Optics Express</i> , 2010 , 18, 16771-6	3.3	30
126	Current-driven detection of terahertz radiation using a dual-grating-gate plasmonic detector. <i>Applied Physics Letters</i> , 2014 , 104, 262104	3.4	28
125	Graphene surface emitting terahertz laser: Diffusion pumping concept. <i>Applied Physics Letters</i> , 2013 , 103, 251102	3.4	28
124	Giant plasmon instability in a dual-grating-gate graphene field-effect transistor. <i>Physical Review B</i> , 2016 , 93,	3.3	26
123	Noncentrosymmetric plasmon modes and giant terahertz photocurrent in a two-dimensional plasmonic crystal. <i>Physical Review B</i> , 2015 , 91,	3.3	26
122	Broadening of the plasmon resonance due to plasmon-plasmon intermode scattering in terahertz high-electron-mobility transistors. <i>Applied Physics Letters</i> , 2008 , 93, 263503	3.4	25
121	Terahertz plasmonic rectification in a spatially periodic graphene. <i>Applied Physics Letters</i> , 2017 , 110, 061106	3.4	24

120	Plasma wave instability and amplification of terahertz radiation in field-effect-transistor arrays. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 384208	1.8	24
119	Electromagnetic emission from two-dimensional plasmons in a semiconductor-dielectric structure with metal grating: Rigorous theory. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1993 , 14, 1455-1470		24
118	Strong terahertz absorption bands in a scaled plasmonic crystal. <i>Applied Physics Letters</i> , 2007 , 90, 251910.4	0.4	20
117	Plasmonic amplification of terahertz radiation in a periodic graphene structure with the carrier injection. <i>Applied Physics Letters</i> , 2017 , 111, 081110	3.4	19
116	Downconversion of terahertz radiation due to intrinsic hydrodynamic nonlinearity of a two-dimensional electron plasma. <i>Physical Review B</i> , 2015 , 91,	3.3	17
115	Total light absorption in plasmonic nanostructures. <i>Journal of Optics</i> , 2007 , 9, S458-S462		17
114	Mie plasmon enhanced diffraction of light from nanoporous metal surfaces. <i>Optics Express</i> , 2006 , 14, 11964-71	3.3	17
113	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	1	15
112	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	3.4	15
111	Active guiding of Dirac plasmons in graphene. <i>Applied Physics Letters</i> , 2015 , 106, 061105	3.4	14
110	Room-Temperature Amplification of Terahertz Radiation by Grating-Gate Graphene Structures. <i>Physical Review X</i> , 2020 , 10,	9.1	13
109	Giant cross-polarization conversion of terahertz radiation by plasmons in an active graphene metasurface. <i>Applied Physics Letters</i> , 2016 , 109, 131101	3.4	13
108	Localized and collective magnetoplasmon excitations in AlGa _N /Ga _N -based grating-gate terahertz modulators. <i>Applied Physics Letters</i> , 2011 , 99, 213501	3.4	12
107	Spectrum of polariton excitations of a two-dimensional electron plasma in a magnetic field. <i>JETP Letters</i> , 1998 , 68, 210-215	1.2	12
106	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	2.5	11
105	Total resonant absorption of light by plasmons on the nanoporous surface of a metal. <i>Physics of the Solid State</i> , 2005 , 47, 178	0.8	11
104	Terahertz detection in a slit-grating-gate field-effect-transistor structure. <i>Solid-State Electronics</i> , 2013 , 86, 64-67	1.7	10
103	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	0.8	9

102	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	1	9
101	Amplification of terahertz radiation in a plasmon nπ-graphene structure with charge-carrier injection. <i>Semiconductors</i> , 2017 , 51, 1460-1465	0.7	8
100	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	0.7	8
99	The resonant terahertz response of a slot diode with a two-dimensional electron channel. <i>Semiconductors</i> , 2005 , 39, 142	0.7	8
98	Plasmon resonances in a gated two-dimensional electron system with lateral contacts. <i>Technical Physics Letters</i> , 2010 , 36, 272-275	0.7	7
97	Tunable terahertz detection based on a grating-gated double-quantum-well FET. <i>Semiconductor Science and Technology</i> , 2004 , 19, S71-S73	1.8	7
96	Giant light absorption by plasmons in a nanoporous metal film. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005 , 202, 362-366	1.6	7
95	Optical pumping through a black-As absorbing-cooling layer in graphene-based heterostructure: thermo-diffusion model. <i>Optical Materials Express</i> , 2019 , 9, 4061	2.6	7
94	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,	3.3	6
93	Detection of terahertz radiation by tightly concatenated InGaAs field-effect transistors integrated on a single chip. <i>Applied Physics Letters</i> , 2014 , 104, 163508	3.4	6
92	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	3.4	5
91	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	1.7	5
90	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	1.6	5
89	Optical pumping in graphene-based terahertz/far-infrared superluminescent and laser heterostructures with graded-gap black-PxAs _{1-x} absorbing-cooling layers. <i>Optical Engineering</i> , 2019 , 59, 1	1.1	5
88	Amplified propagating plasmon in asymmetrical graphene periodic structure. <i>Journal of Physics Communications</i> , 2020 , 4, 071001	1.2	5
87	Electromagnetic renormalization of the plasmon spectrum in a laterally screened two-dimensional electron system. <i>JETP Letters</i> , 2012 , 95, 85-90	1.2	4
86	Detection of Terahertz Radiation by Dense Arrays of InGaAs Transistors. <i>International Journal of High Speed Electronics and Systems</i> , 2015 , 24, 1550002	0.5	4
85	Tunable 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		4

84	Room Temperature Terahertz Plasmonic Detection by Antenna Arrays of Field-Effect Transistors. <i>Nanoscience and Nanotechnology Letters</i> , 2012 , 4, 1015-1022	0.8	4
83	Paving the Way for Tunable Graphene Plasmonic THz Amplifiers. <i>Frontiers in Physics</i> , 2021 , 9,	3.9	4
82	Terahertz Lasing with Weak Plasmon Modes in Periodic Graphene Structures. <i>Physical Review Applied</i> , 2021 , 15,	4.3	4
81	Two-terminal terahertz detectors based on AlGaIn/GaN high-electron-mobility transistors. <i>Applied Physics Letters</i> , 2019 , 115, 111101	3.4	3
80	Smaller antenna-gate gap for higher sensitivity of GaN/AlGaIn HEMT terahertz detectors. <i>Applied Physics Letters</i> , 2020 , 116, 161109	3.4	3
79	Giant amplification of terahertz plasmons in a double-layer graphene. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 08LT02	1.8	3
78	Nanometer near-field localization and enhancement in a split two-dimensional plasmonic system at terahertz frequencies. <i>Optics Communications</i> , 2014 , 315, 352-355	2	3
77	Ultra-broadband near-field antenna for terahertz plasmonic applications. <i>Semiconductors</i> , 2015 , 49, 104-108	0.8	3
76	Ultrahigh sensitive plasmonic terahertz detector based on an asymmetric dual-grating gate HEMT structure 2011 ,		3
75	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	0.4	3
74	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	0.4	3
73	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	0.7	3
72	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	1.2	3
71	Graphene-based plasmonic metamaterial for terahertz laser transistors. <i>Nanophotonics</i> , 2022 ,	6.3	3
70	Observation of terahertz plasmon and plasmon-polariton splitting in a grating-coupled AlGaIn/GaN heterostructure. <i>Optics Express</i> , 2018 , 26, 31794-31807	3.3	3
69	Nanofocusing and deceleration of terahertz plasma waves in tapered metal-insulator-graphene heterostructure. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 34LT02	1.8	2
68	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	1.2	2
67	Negative terahertz conductivity of graphene when pumping by optical plasmons. <i>Technical Physics Letters</i> , 2017 , 43, 523-526	0.7	2

66	Giant effect of terahertz-radiation rectification in periodic graphene plasmonic structures. <i>Semiconductors</i> , 2017 , 51, 1500-1504	0.7	2
65	Superradiant amplification of terahertz radiation by plasmons in inverted graphene with a planar distributed Bragg resonator. <i>Semiconductors</i> , 2015 , 49, 1468-1472	0.7	2
64	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	0.7	2
63	Plasmonic Terahertz Monochromatic Coherent Emission from an Asymmetric Chirped Dual-Grating-Gate InP-HEMT with a Photonic Vertical Cavity 2013 ,		2
62	Guided plasmon-polaritons in a planar Bragg microresonator with a two-dimensional electron system. <i>Nanotechnology</i> , 2001 , 12, 480-484	3.4	2
61	Amplification of THz radiation in graphene with direct electric current 2020 ,		2
60	Polarization-dependent plasmonic photocurrents in two-dimensional electron systems. <i>Applied Physics Letters</i> , 2016 , 108, 261104	3.4	2
59	Amplification of plasma waves in shielded active graphene. <i>Technical Physics Letters</i> , 2016 , 42, 40-42	0.7	2
58	Cooperative promotion of plasma instabilities for emission of terahertz radiation in an asymmetric dual-grating-gate graphene-channel FET 2016 ,		2
57	Electrical Tunability of Terahertz Amplification in a Periodic Plasmon Graphene Structure with Charge-Carrier Injection. <i>Semiconductors</i> , 2018 , 52, 1534-1539	0.7	2
56	Recent advances in the research toward graphene-based terahertz lasers 2015 ,		1
55	Switching of terahertz plasmon propagating direction in a dual layer graphene with periodic grating gate 2020 ,		1
54	Wide-aperture total absorption of a terahertz wave in a nanoperiodic graphene-based plasmon structure. <i>Semiconductors</i> , 2016 , 50, 1543-1547	0.7	1
53	Plasmonic absorption of THz radiation in graphene structure with a metal grating. <i>Journal of Physics: Conference Series</i> , 2017 , 917, 062036	0.3	1
52	Graphene plasmonic terahertz detector with high responsivity. <i>Journal of Physics: Conference Series</i> , 2017 , 917, 062045	0.3	1
51	Detection of terahertz and mid-infrared radiations by InP-based asymmetric dual-grating-gate HEMTs 2014 ,		1
50	Graphene Active Plasmonics for New Types of Terahertz Lasers. <i>International Journal of High Speed Electronics and Systems</i> , 2014 , 23, 1450016	0.5	1
49	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	0.4	1

48	Extremely-high sensitive terahertz detector based on dual-grating gate InP-HEMTs 2013 ,		1
47	Plasmonic terahertz monochromatic coherent emission from an asymmetric chirped dual-grating-gate InP-HEMT with a photonic vertical cavity 2013 ,		1
46	Amplification of terahertz radiation by stimulated emission of plasmons in graphene 2013 ,		1
45	Effect of pump wave reflections on the excitation of a dual-wavelength vertical-cavity surface-emitting laser. <i>Semiconductors</i> , 2009 , 43, 382-386	0.7	1
44	Terahertz detection in a double-grating-gate heterotransistor. <i>Journal of Physics: Conference Series</i> , 2009 , 193, 012074	0.3	1
43	Features of dual-wavelength generation in a vertical-external-cavity surface-emitting laser. <i>Technical Physics Letters</i> , 2010 , 36, 344-347	0.7	1
42	TUNABLE GRID GATED DOUBLE-QUANTUM-WELL FET TERAHERTZ DETECTOR. <i>International Journal of High Speed Electronics and Systems</i> , 2008 , 18, 147-157	0.5	1
41	Plasma oscillations in field-effect transistor arrays 2008 ,		1
40	Tracing the interwell plasmon in a grid-gated double-quantum-well field-effect transistor 2005 , 5772, 63		1
39	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
38	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	0.7	1
37	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	0.7	1
36	Graphene-based 2D-heterostructures for terahertz lasers and amplifiers 2019 ,		1
35	Terahertz plasmon amplification in a double-layer graphene structure with direct electric current in hydrodynamic regime. <i>Physical Review B</i> , 2021 , 103,	3.3	1
34	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	4.9	1
33	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	0.7	0
32	Detection of Terahertz Radiation by Dense Arrays of InGaAs Transistors. <i>Selected Topics in Electronics and Systems</i> , 2015 , 31-53	0	0
31	Hydrodynamic Terahertz Plasmons and Electron Sound in Graphene with Spatial Dispersion. <i>Semiconductors</i> , 2020 , 54, 941-945	0.7	0

30	Lateral Energy Transfer by Plasmons Excited by a Terahertz Wave in a Periodic Spatially Asymmetric Graphene Structure. <i>Semiconductors</i> , 2019 , 53, 1164-1169	0.7
29	Terahertz Wave Generation Using Graphene and Compound Semiconductor Nano-Heterostructures. <i>Nanostructure Science and Technology</i> , 2015 , 237-261	0.9
28	Propagating plasmon in periodical graphene structure. <i>Journal of Physics: Conference Series</i> , 2020 , 1461, 012093	0.3
27	Terahertz detector with series connection of asymmetric gated transistors. <i>Journal of Physics: Conference Series</i> , 2014 , 486, 012016	0.3
26	Transverse plasmon mode in a screened two-dimensional electron system. <i>Semiconductors</i> , 2015 , 49, 166-169	0.7
25	Investigation of wide-aperture plasmonic detectors by a tightly focused terahertz beam. <i>Journal of Physics: Conference Series</i> , 2014 , 486, 012013	0.3
24	Terahertz rectification in a periodic two-dimensional electron plasma. <i>Journal of Physics: Conference Series</i> , 2014 , 486, 012005	0.3
23	Theory of plasmonic terahertz detection by a dual-grating-gate field-effect transistor. <i>Journal of Physics: Conference Series</i> , 2014 , 486, 012022	0.3
22	Efficiency enhancement of emission of terahertz radiation by optical excitation from dual grating gate HEMT. <i>Journal of Nanophotonics</i> , 2009 , 3, 031980	1.1
21	Enhancement of terahertz radiation by CW infrared laser excitation in a doubly interdigitated grating gates transistors. <i>Journal of Physics: Conference Series</i> , 2009 , 193, 012071	0.3
20	Trapped oblique plasmons and suppression of the intermode plasmon-plasmon scattering in multichannel nanoheterotransistor. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2010 , 74, 78-81	0.4
19	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	0.7
18	Photonic absorption bands in the spectra of nanoporous metallic films. <i>Physics of the Solid State</i> , 2007 , 49, 1264-1267	0.8
17	Temporal dynamics of radiative polariton modes in a two-dimensional excitonic layer. <i>Technical Physics Letters</i> , 2007 , 33, 176-179	0.7
16	Nonequilibrium Green's function theory of resonant steady state photoconduction in a double quantum well FET subject to THz radiation at plasmon frequency. <i>Journal of Physics: Conference Series</i> , 2006 , 35, 275-290	0.3
15	Dyadic Green's function analysis of the non-stationary nonelectrodynamic polaritonic response of a two-dimensional excitonic layer. <i>Journal of Physics: Conference Series</i> , 2006 , 35, 297-306	0.3
14	Light absorption by polaritons in an interface layer with strong excitonic response: effects of retardation and total reflection. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 896-899	
13	Resonant magneto-optical phenomena associated with eigen-oscillations of a two-dimensional electron plasma. <i>Nanotechnology</i> , 2001 , 12, 619-624	3.4

- 12 The effect of interference in the substrate on the electromagnetic wave polarization transformation under cyclotron resonance conditions in a two-dimensional electron system. *Technical Physics Letters*, **2000**, 26, 814-816 0.7
- 11 Magneto-optical interference effects in a structure featuring a 2D electron gas. *Technical Physics Letters*, **2000**, 26, 1067-1069 0.7
- 10 Conversion of the polarization of an electromagnetic wave under cyclotron resonance in a two-dimensional electron system. *Technical Physics Letters*, **1999**, 25, 855-857 0.7
- 9 Weak plasmon modes in periodic structures for terahertz detection and amplification. *Journal of Physics: Conference Series*, **2021**, 2015, 012039 0.3
- 8 Grating Assisted Electromagnetic Emission from Magneto-Plasmon and Cyclotron Modes in Two-Dimensional Plasma Layer on GaAs **1995**, 237-238
- 7 Terahertz Response of Tightly Concatenated Two Dimensional InGaAs Field-Effect Transistors Integrated on a Single Chip. *International Journal of High Speed Electronics and Systems*, **2016**, 25, 1640012^{0.5}
- 6 Amplification of the propagating plasmon in a periodical structure with an active graphene. *Journal of Physics: Conference Series*, **2019**, 1400, 044003 0.3
- 5 Excitation of unidirectionally propagating plasmon in the periodic graphene structure. *Journal of Physics: Conference Series*, **2019**, 1410, 012133 0.3
- 4 The effect of the strong spatial inhomogeneity of the electric field on plasmon rectification of terahertz radiation in graphene. *Journal of Physics: Conference Series*, **2018**, 1092, 012032 0.3
- 3 Features of the Damping and Amplification of Terahertz Plasmon Eigenmodes in Graphene Taking the Spatial Dispersion into Account. *Semiconductors*, **2021**, 55, 875-878 0.7
- 2 Amplification of Terahertz Electromagnetic Waves in a Structure with Two Graphene Layers under a Direct Electric Current Flow: a Hydrodynamic Approximation. *Semiconductors*, **2021**, 55, S30-S34 0.7
- 1 Electrical activating of the nonradiative terahertz plasmon modes in a periodic grating-gate graphene structure with asymmetrical gating. *Photonics and Nanostructures - Fundamentals and Applications*, **2022**, 50, 101027 2.6