

# Viacheslav Popov

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Graphene-based plasmonic metamaterial for terahertz laser transistors. <i>Nanophotonics</i> , <b>2022</b> ,	6.3	3
154	Electrical activating of the nonradiative terahertz plasmon modes in a periodic grating-gate graphene structure with asymmetrical gating. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , <b>2022</b> , 50, 101027	2.6	
153	Weak plasmon modes in periodic structures for terahertz detection and amplification. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2015, 012039	0.3	
152	Paving the Way for Tunable Graphene Plasmonic THz Amplifiers. <i>Frontiers in Physics</i> , <b>2021</b> , 9,	3.9	4
151	Terahertz Lasing with Weak Plasmon Modes in Periodic Graphene Structures. <i>Physical Review Applied</i> , <b>2021</b> , 15,	4.3	4
150	Terahertz plasmon amplification in a double-layer graphene structure with direct electric current in hydrodynamic regime. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	1
149	Electrically controllable active plasmonic directional coupler of terahertz signal based on a periodical dual grating gate graphene structure. <i>Scientific Reports</i> , <b>2021</b> , 11, 11431	4.9	1
148	Features of the Damping and Amplification of Terahertz Plasmon Eigenmodes in Graphene Taking the Spatial Dispersion into Account. <i>Semiconductors</i> , <b>2021</b> , 55, 875-878	0.7	
147	Amplification of Terahertz Electromagnetic Waves in a Structure with Two Graphene Layers under a Direct Electric Current Flow: a Hydrodynamic Approximation. <i>Semiconductors</i> , <b>2021</b> , 55, S30-S34	0.7	
146	Switching of terahertz plasmon propagating direction in a dual layer graphene with periodic grating gate <b>2020</b> ,		1
145	Propagating plasmon in periodical graphene structure. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1461, 012093	0.3	
144	Smaller antenna-gate gap for higher sensitivity of GaN/AlGaN HEMT terahertz detectors. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 161109	3.4	3
143	Room-Temperature Amplification of Terahertz Radiation by Grating-Gate Graphene Structures. <i>Physical Review X</i> , <b>2020</b> , 10,	9.1	13
142	Amplified propagating plasmon in asymmetrical graphene periodic structure. <i>Journal of Physics Communications</i> , <b>2020</b> , 4, 071001	1.2	5
141	Hydrodynamic Terahertz Plasmons and Electron Sound in Graphene with Spatial Dispersion. <i>Semiconductors</i> , <b>2020</b> , 54, 941-945	0.7	0
140	Amplification of THz radiation in graphene with direct electric current <b>2020</b> ,		2
139	On the Amplification of Terahertz Radiation by High-Q Resonant Plasmons in a Periodic Graphene Bilayer under Plasmon-Mode Anticrossing. <i>Semiconductors</i> , <b>2019</b> , 53, 1211-1216	0.7	0

138	Lateral Energy Transfer by Plasmons Excited by a Terahertz Wave in a Periodic Spatially Asymmetric Graphene Structure. <i>Semiconductors</i> , <b>2019</b> , 53, 1164-1169	0.7	
137	Two-terminal terahertz detectors based on AlGa <sub>N</sub> /Ga <sub>N</sub> high-electron-mobility transistors. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 111101	3.4	3
136	Nanofocusing and deceleration of terahertz plasma waves in tapered metal-insulator-graphene heterostructure. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 34LT02	1.8	2
135	The origin of distorted intensity pattern sensed by a lens and antenna coupled AlGa <sub>N</sub> /Ga <sub>N</sub> -HEMT terahertz detector. <i>Chinese Physics B</i> , <b>2019</b> , 28, 118502	1.2	2
134	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> , <b>2019</b> , 59, 1	1.1	5
133	Optical pumping through a black-As absorbing-cooling layer in graphene-based heterostructure: thermo-diffusion model. <i>Optical Materials Express</i> , <b>2019</b> , 9, 4061	2.6	7
132	Graphene-based 2D-heterostructures for terahertz lasers and amplifiers <b>2019</b> ,		1
131	Amplification of the propagating plasmon in a periodical structure with an active graphene. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1400, 044003	0.3	
130	Excitation of unidirectionally propagating plasmon in the periodic graphene structure. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1410, 012133	0.3	
129	Giant amplification of terahertz plasmons in a double-layer graphene. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 08LT02	1.8	3
128	The effect of the strong spatial inhomogeneity of the electric field on plasmon rectification of terahertz radiation in graphene. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1092, 012032	0.3	
127	Observation of terahertz plasmon and plasmon-polariton splitting in a grating-coupled AlGa <sub>N</sub> /Ga <sub>N</sub> heterostructure. <i>Optics Express</i> , <b>2018</b> , 26, 31794-31807	3.3	3
126	Electrical Tunability of Terahertz Amplification in a Periodic Plasmon Graphene Structure with Charge-Carrier Injection. <i>Semiconductors</i> , <b>2018</b> , 52, 1534-1539	0.7	2
125	Terahertz plasmonic rectification in a spatially periodic graphene. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 061106	3.4	24
124	Plasmonic amplification of terahertz radiation in a periodic graphene structure with the carrier injection. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 081110	3.4	19
123	Negative terahertz conductivity of graphene when pumping by optical plasmons. <i>Technical Physics Letters</i> , <b>2017</b> , 43, 523-526	0.7	2
122	Giant effect of terahertz-radiation rectification in periodic graphene plasmonic structures. <i>Semiconductors</i> , <b>2017</b> , 51, 1500-1504	0.7	2
121	Amplification of terahertz radiation in a plasmon n-p <sub>0</sub> graphene structure with charge-carrier injection. <i>Semiconductors</i> , <b>2017</b> , 51, 1460-1465	0.7	8

120	Magnetic quantum ratchet effect in (Cd,Mn)Te- and CdTe-based quantum well structures with a lateral asymmetric superlattice. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	6
119	Plasmonic absorption of THz radiation in graphene structure with a metal grating. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 917, 062036	0.3	1
118	Graphene plasmonic terahertz detector with high responsivity. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 917, 062045	0.3	1
117	Terahertz ratchet effects in graphene with a lateral superlattice. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	50
116	Giant plasmon instability in a dual-grating-gate graphene field-effect transistor. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	26
115	Wide-aperture total absorption of a terahertz wave in a nanoperiodic graphene-based plasmon structure. <i>Semiconductors</i> , <b>2016</b> , 50, 1543-1547	0.7	1
114	Polarization-dependent plasmonic photocurrents in two-dimensional electron systems. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 261104	3.4	2
113	Giant cross-polarization conversion of terahertz radiation by plasmons in an active graphene metasurface. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 131101	3.4	13
112	Terahertz Response of Tightly Concatenated Two Dimensional InGaAs Field-Effect Transistors Integrated on a Single Chip. <i>International Journal of High Speed Electronics and Systems</i> , <b>2016</b> , 25, 164001-25	0.5	12
111	Amplification of plasma waves in shielded active graphene. <i>Technical Physics Letters</i> , <b>2016</b> , 42, 40-42	0.7	2
110	Cooperative promotion of plasma instabilities for emission of terahertz radiation in an asymmetric dual-grating-gate graphene-channel FET <b>2016</b> ,		2
109	Active guiding of Dirac plasmons in graphene. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 061105	3.4	14
108	Downconversion of terahertz radiation due to intrinsic hydrodynamic nonlinearity of a two-dimensional electron plasma. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	17
107	Recent advances in the research toward graphene-based terahertz lasers <b>2015</b> ,		1
106	Terahertz Wave Generation Using Graphene and Compound Semiconductor Nano-Heterostructures. <i>Nanostructure Science and Technology</i> , <b>2015</b> , 237-261	0.9	
105	Noncentrosymmetric plasmon modes and giant terahertz photocurrent in a two-dimensional plasmonic crystal. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	26
104	Detection of Terahertz Radiation by Dense Arrays of InGaAs Transistors. <i>Selected Topics in Electronics and Systems</i> , <b>2015</b> , 31-53	0	0
103	Superradiant amplification of terahertz radiation by plasmons in inverted graphene with a planar distributed Bragg resonator. <i>Semiconductors</i> , <b>2015</b> , 49, 1468-1472	0.7	2

102	Detection of Terahertz Radiation by Dense Arrays of InGaAs Transistors. <i>International Journal of High Speed Electronics and Systems</i> , <b>2015</b> , 24, 1550002	0.5	4
101	Transverse plasmon mode in a screened two-dimensional electron system. <i>Semiconductors</i> , <b>2015</b> , 49, 166-169	0.7	
100	Excitation of plasmonic terahertz photovoltaic effects in a periodic two-dimensional electron system by the attenuated total reflection method. <i>Semiconductors</i> , <b>2015</b> , 49, 23-27	0.7	2
99	Ultra-broadband near-field antenna for terahertz plasmonic applications. <i>Semiconductors</i> , <b>2015</b> , 49, 104-108	0.7	3
98	Nanometer near-field localization and enhancement in a split two-dimensional plasmonic system at terahertz frequencies. <i>Optics Communications</i> , <b>2014</b> , 315, 352-355	2	3
97	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> , <b>2014</b> , 104, 251114	3.4	84
96	Current-driven detection of terahertz radiation using a dual-grating-gate plasmonic detector. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 262104	3.4	28
95	Terahertz detector with series connection of asymmetric gated transistors. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 486, 012016	0.3	
94	Investigation of wide-aperture plasmonic detectors by a tightly focused terahertz beam. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 486, 012013	0.3	
93	Detection of terahertz and mid-infrared radiations by InP-based asymmetric dual-grating-gate HEMTs <b>2014</b> ,		1
92	Graphene Active Plasmonics for New Types of Terahertz Lasers. <i>International Journal of High Speed Electronics and Systems</i> , <b>2014</b> , 23, 1450016	0.5	1
91	Detection of terahertz radiation by tightly concatenated InGaAs field-effect transistors integrated on a single chip. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 163508	3.4	6
90	Terahertz rectification in a periodic two-dimensional electron plasma. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 486, 012005	0.3	
89	Theory of plasmonic terahertz detection by a dual-grating-gate field-effect transistor. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 486, 012022	0.3	
88	InP- and GaAs-Based Plasmonic High-Electron-Mobility Transistors for Room-Temperature Ultrahigh-Sensitive Terahertz Sensing and Imaging. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 89-99	4	46
87	Terahertz rectification by periodic two-dimensional electron plasma. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 253504	3.4	38
86	Terahertz detection in a slit-grating-gate field-effect-transistor structure. <i>Solid-State Electronics</i> , <b>2013</b> , 86, 64-67	1.7	10
85	. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2013</b> , 3, 63-71	3.4	69

84	Extremely-high sensitive terahertz detector based on dual-grating gate InP-HEMTs <b>2013</b> ,		1
83	Plasmonic terahertz monochromatic coherent emission from an asymmetric chirped dual-grating-gate InP-HEMT with a photonic vertical cavity <b>2013</b> ,		1
82	Plasmonic Terahertz Monochromatic Coherent Emission from an Asymmetric Chirped Dual-Grating-Gate InP-HEMT with a Photonic Vertical Cavity <b>2013</b> ,		2
81	Amplification of terahertz radiation by stimulated emission of plasmons in graphene <b>2013</b> ,		1
80	Graphene surface emitting terahertz laser: Diffusion pumping concept. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 251102	3-4	28
79	Amplification and lasing of terahertz radiation by plasmons in graphene with a planar distributed Bragg resonator. <i>Journal of Optics (United Kingdom)</i> , <b>2013</b> , 15, 114009	1-7	36
78	Electromagnetic renormalization of the plasmon spectrum in a laterally screened two-dimensional electron system. <i>JETP Letters</i> , <b>2012</b> , 95, 85-90	1.2	4
77	Plasmonic terahertz lasing in an array of graphene nanocavities. <i>Physical Review B</i> , <b>2012</b> , 86,	3-3	73
76	Resonant properties of the planar plasmonic crystal on a membrane substrate. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2012</b> , 76, 229-232	0-4	1
75	Ultrahigh sensitive plasmonic terahertz detector based on an asymmetric dual-grating gate HEMT structure. <i>Solid-State Electronics</i> , <b>2012</b> , 78, 109-114	1-7	45
74	Tailoring terahertz near-field enhancement via two-dimensional plasmons. <i>Physical Review Letters</i> , <b>2012</b> , 108, 127401	7-4	49
73	Room Temperature Terahertz Plasmonic Detection by Antenna Arrays of Field-Effect Transistors. <i>Nanoscience and Nanotechnology Letters</i> , <b>2012</b> , 4, 1015-1022	0-8	4
72	Localized and collective magnetoplasmon excitations in AlGa <sub>N</sub> /Ga <sub>N</sub> -based grating-gate terahertz modulators. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 213501	3-4	12
71	Plasmonic terahertz detection by a double-grating-gate field-effect transistor structure with an asymmetric unit cell. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 243504	3-4	101
70	High-responsivity terahertz detection by on-chip InGaAs/GaAs field-effect-transistor array. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 153504	3-4	38
69	Ultrahigh sensitive plasmonic terahertz detector based on an asymmetric dual-grating gate HEMT structure <b>2011</b> ,		3
68	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> , <b>2011</b> , 32, 1178-1191	2-2	49
67	Temperature dependence of plasmonic terahertz absorption in grating-gate gallium-nitride transistor structures. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 042105	3-4	93

66	Room temperature detection of sub-terahertz radiation in double-grating-gate transistors. <i>Optics Express</i> , <b>2010</b> , 18, 6024-32	3.3	38
65	Enhanced electromagnetic coupling between terahertz radiation and plasmons in a grating-gate transistor structure on membrane substrate. <i>Optics Express</i> , <b>2010</b> , 18, 16771-6	3.3	30
64	Transformation of the plasmon spectrum in a grating-gate transistor structure with spatially modulated two-dimensional electron channel. <i>Semiconductors</i> , <b>2010</b> , 44, 1406-1413	0.7	37
63	Trapped oblique plasmons and suppression of the intermode plasmon-plasmon scattering in multichannel nanoheterotransistor. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2010</b> , 74, 78-81	0.4	
62	Plasmon resonances in a gated two-dimensional electron system with lateral contacts. <i>Technical Physics Letters</i> , <b>2010</b> , 36, 272-275	0.7	7
61	Features of dual-wavelength generation in a vertical-external-cavity surface-emitting laser. <i>Technical Physics Letters</i> , <b>2010</b> , 36, 344-347	0.7	1
60	Wide-aperture detector of terahertz radiation based on GaAs/InGaAs transistor structure with large-area slit grating gate. <i>Technical Physics Letters</i> , <b>2010</b> , 36, 365-368	0.7	8
59	Oblique terahertz plasmons in graphene nanoribbon arrays. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	58
58	Efficiency enhancement of emission of terahertz radiation by optical excitation from dual grating gate HEMT. <i>Journal of Nanophotonics</i> , <b>2009</b> , 3, 031980	1.1	
57	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> , <b>2009</b> , 73, 84-87	0.4	3
56	Effect of pump wave reflections on the excitation of a dual-wavelength vertical-cavity surface-emitting laser. <i>Semiconductors</i> , <b>2009</b> , 43, 382-386	0.7	1
55	Terahertz detection in a double-grating-gate heterotransistor. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 193, 012074	0.3	1
54	Enhancement of terahertz radiation by CW infrared laser excitation in a doubly interdigitated grating gates transistors. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 193, 012071	0.3	
53	Room temperature terahertz emission from grating coupled two-dimensional plasmons. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 201108	3.4	44
52	Broadening of the plasmon resonance due to plasmon-plasmon intermode scattering in terahertz high-electron-mobility transistors. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 263503	3.4	25
51	Plasma wave instability and amplification of terahertz radiation in field-effect-transistor arrays. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 384208	1.8	24
50	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> , <b>2008</b> , 20, 384206	1.8	42
49	Tuning of ungated plasmons by a gate in the field-effect transistor with two-dimensional electron channel. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 024508	2.5	34

48	TUNABLE GRID GATED DOUBLE-QUANTUM-WELL FET TERAHERTZ DETECTOR. <i>International Journal of High Speed Electronics and Systems</i> , <b>2008</b> , 18, 147-157	0.5	1
47	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> , <b>2008</b> , 93, 083501	3.4	5
46	Plasma oscillations in field-effect transistor arrays <b>2008</b> ,		1
45	Photonic absorption bands in the spectra of nanoporous metallic films. <i>Physics of the Solid State</i> , <b>2007</b> , 49, 1264-1267	0.8	
44	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> , <b>2007</b> , 71, 89-92	0.4	3
43	Temporal dynamics of radiative polariton modes in a two-dimensional excitonic layer. <i>Technical Physics Letters</i> , <b>2007</b> , 33, 176-179	0.7	
42	HIGHER-ORDER PLASMON RESONANCES IN GAN-BASED FIELD-EFFECT TRANSISTOR ARRAYS. <i>International Journal of High Speed Electronics and Systems</i> , <b>2007</b> , 17, 557-566	0.5	38
41	Total light absorption in plasmonic nanostructures. <i>Journal of Optics</i> , <b>2007</b> , 9, S458-S462		17
40	Strong terahertz absorption bands in a scaled plasmonic crystal. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 251910	0.4	20
39	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> , <b>2007</b> , 24, 2428	1.7	5
38	Terahertz plasmon photoresponse in a density modulated two-dimensional electron channel of a GaAs/AlGaAs field-effect transistor. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 163507	3.4	34
37	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> , <b>2006</b> , 99, 124303	2.5	11
36	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> , <b>2006</b> , 89, 123504	3.4	15
35	Strong coupling of light to flat metals via a buried nanovoid lattice: the interplay of localized and free plasmons. <i>Optics Express</i> , <b>2006</b> , 14, 1965-72	3.3	42
34	Mie plasmon enhanced diffraction of light from nanoporous metal surfaces. <i>Optics Express</i> , <b>2006</b> , 14, 11964-71	3.3	17
33	Plasmon enhanced electron drag and terahertz photoconductance in a grating-gated field-effect transistor with two-dimensional electron channel. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 143512	3.4	38
32	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> , <b>2006</b> , 35, 275-290	0.3	
31	Dyadic Green's function analysis of the non-stationary nanoelectrodynamic polaritonic response of a twodimensional excitonic layer. <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 35, 297-306	0.3	



30	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> , <b>2006</b> , 140, 529-532	1.6	5
29	Resonant excitation of plasma oscillations in a partially gated two-dimensional electron layer. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 033510	2.5	63
28	Tracing the interwell plasmon in a grid-gated double-quantum-well field-effect transistor <b>2005</b> , 5772, 63		1
27	Void plasmons and total absorption of light in nanoporous metallic films. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	71
26	The resonant terahertz response of a slot diode with a two-dimensional electron channel. <i>Semiconductors</i> , <b>2005</b> , 39, 142	0.7	8
25	Total resonant absorption of light by plasmons on the nanoporous surface of a metal. <i>Physics of the Solid State</i> , <b>2005</b> , 47, 178	0.8	11
24	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> , <b>2005</b> , 2, 896-899		
23	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> , <b>2005</b> , 2, 3912-3915		4
22	Giant light absorption by plasmons in a nanoporous metal film. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2005</b> , 202, 362-366	1.6	7
21	Tunable terahertz detection based on a grating-gated double-quantum-well FET. <i>Semiconductor Science and Technology</i> , <b>2004</b> , 19, S71-S73	1.8	7
20	Radiative decay of plasmons in a metallic nanoshell. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	68
19	Plasmon-induced terahertz absorption and photoconductivity in a grid-gated double-quantum-well structure. <i>Physics of the Solid State</i> , <b>2004</b> , 46, 153-156	0.8	9
18	Terahertz emission by plasma waves in 60 nm gate high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2331-2333	3.4	233
17	Absorption of terahertz radiation by plasmon modes in a grid-gated double-quantum-well field-effect transistor. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 3556-3562	2.5	97
16	The plasma oscillations spectrum of a periodically inhomogeneous 2D electron system near the perforation threshold. <i>Journal of Experimental and Theoretical Physics</i> , <b>2002</b> , 95, 505-510	1	9
15	The role of radiative damping in shaping of the cyclotron resonance line in a two-dimensional electron system. <i>Technical Physics Letters</i> , <b>2001</b> , 27, 193-194	0.7	3
14	Total polarization conversion in a two-dimensional electron system under cyclotron polariton resonance conditions. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>2001</b> , 3, S194-S197		1
13	Resonant magneto-optical phenomena associated with eigen-oscillations of a two-dimensional electron plasma. <i>Nanotechnology</i> , <b>2001</b> , 12, 619-624	3.4	

12	Guided plasmon-polaritons in a planar Bragg microresonator with a two-dimensional electron system. <i>Nanotechnology</i> , <b>2001</b> , 12, 480-484	3.4	2
11	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> , <b>2000</b> , 26, 814-816	0.7	
10	Magneto-optical interference effects in a structure featuring a 2D electron gas. <i>Technical Physics Letters</i> , <b>2000</b> , 26, 1067-1069	0.7	
9	Density distribution of a two-dimensional electron gas in a semiconducting heterostructure with a periodic gate electrode. <i>Technical Physics Letters</i> , <b>1999</b> , 25, 15-16	0.7	1
8	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> , <b>1999</b> , 25, 99-100	0.7	1
7	Conversion of the polarization of an electromagnetic wave under cyclotron resonance in a two-dimensional electron system. <i>Technical Physics Letters</i> , <b>1999</b> , 25, 855-857	0.7	
6	Total conversion of the polarization of electromagnetic waves during excitation of cyclotron polaritons in a two-dimensional electron system. <i>JETP Letters</i> , <b>1999</b> , 70, 254-259	1.2	3
5	Influence of substrate thickness on plasma resonance in a semiconductor heterostructure with a two-dimensional electron gas. <i>Technical Physics Letters</i> , <b>1998</b> , 24, 361-362	0.7	
4	Spectrum of plasma oscillations in structures with a periodically inhomogeneous two-dimensional electron plasma. <i>Journal of Experimental and Theoretical Physics</i> , <b>1998</b> , 86, 538-544	1	15
3	Spectrum of polariton excitations of a two-dimensional electron plasma in a magnetic field. <i>JETP Letters</i> , <b>1998</b> , 68, 210-215	1.2	12
2	Grating Assisted Electromagnetic Emission from Magneto-Plasmon and Cyclotron Modes in Two-Dimensional Plasma Layer on GaAs <b>1995</b> , 237-238		
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