Askhat Bakarov

List of Publications by Citations

190 papers	1,762 citations	21 h-index	34 g-index
213 ext. papers	2,090 ext. citations	2.2 avg, IF	4.44 L-index

#	Paper	IF	Citations
190	Effect of dc and ac excitations on the longitudinal resistance of a two-dimensional electron gas in highly doped GaAs quantum wells. *Physical Review B*, **2005**, 72,	3.3	93
189	Zero-differential resistance state of two-dimensional electron systems in strong magnetic fields. *Physical Review Letters*, **2007**, 99, 116801	7.4	77
188	Effect of a dc electric field on the longitudinal resistance of two-dimensional electrons in a magnetic field. *Physical Review B*, **2007**, 75,	3.3	74
187	Interference oscillations of microwave photoresistance in double quantum wells. *Physical Review B*, **2008**, 78,	3.3	73
186	Resonance oscillations of magnetoresistance in double quantum wells. *Physical Review B*, **2008**, 77,	3.3	60
185	Microwave zero-resistance states in a bilayer electron system. *Physical Review Letters*, **2010**, 105, 026804	7.4	56
184	Giant magnetoresistance oscillations induced by microwave radiation and a zero-resistance state in a 2D electron system with a moderate mobility. *JETP Letters*, **2006**, 84, 391-394	1.2	53
183	Acoustic and optical phonon scattering in a single In(Ga)As quantum dot. *Physical Review B*, **2011**, 83,	3.3	47
182	Quantum Dots for Single- and Entangled-Photon Emitters. *IEEE Photonics Journal*, **2009**, 1, 58-68	1.8	44
181	Magnetoresistance oscillations in multilayer systems: Triple quantum wells. *Physical Review B*, **2009**, 80,	3.3	33
180	Diffusion and ballistic contributions of the interaction correction to the conductivity of a two-dimensional electron gas. *Physical Review B*, **2006**, 74,	3.3	32
179	Interface phonons in InAs and AlAs quantum dot structures. *Physical Review B*, **2004**, 70,	3.3	31
178	Magnetophonon resonance in a GaAs quantum well with AlAs/GaAs superlattice barriers at high filling factors. *JETP Letters*, **2005**, 81, 523-526	1.2	31
177	Viscous electron flow in mesoscopic two-dimensional electron gas. *AIP Advances*, **2018**, 8, 025318	1.5	28
176	Crossover between distinct mechanisms of microwave photoresistance in bilayer systems. *Physical Review B*, **2010**, 81,	3.3	26
175	Raman study of self-assembled GaAs and AlAs islands embedded in InAs. *Physical Review B*, **2000**, 61, 13785-13790	3.3	26
174	Nonlinear transport and oscillating magnetoresistance in double quantum wells. *Physical Review B*, **2009**, 80,	3.3	25

173	Non-classical light emission from a single electrically driven quantum dot. *Optics Express*, **2007**, 15, 9107-13	3.3	24
172	Magnetotransport of a quasi-three-dimensional electron gas in the lowest Landau level. *Physical Review B*, **2002**, 65,	3.3	23
171	Photoluminescence of high-quality AlGaAs layers grown by molecular-beam epitaxy. *Applied Physics Letters*, **2000**, 76, 1131-1133	3.4	23
170	Observation of the intrinsic spin Hall effect in a two-dimensional electron gas. *Physical Review B*, **2013**, 88,	3.3	21
169	Millisecond photoluminescence kinetics in a system of direct-bandgap InAs quantum dots in an AlAs matrix. *JETP Letters*, **2003**, 77, 389-392	1.2	21
168	Quasiclassical negative magnetoresistance of a two-dimensional electron gas in a random magnetic field. *Physical Review B*, **2001**, 65,	3.3	21
167	Classical and quantum magnetoresistance in a two-subband electron system. *Physical Review B*, **2009**, 80,	3.3	20
166	Viscous transport and Hall viscosity in a two-dimensional electron system. *Physical Review B*, **2018**, 98,	3.3	20
165	Nonlinear transport phenomena in a two-subband system. *Physical Review B*, **2011**, 84,	3.3	19
164	Landau-level crossing in two-subband systems in a tilted magnetic field. *Physical Review B*, **2007**, 76,	3.3	19
163	Coexistence of a two- and three-dimensional Landau states in a wide parabolic quantum well. *Physical Review B*, **2001**, 64,	3.3	18
162	Vorticity-induced negative nonlocal resistance in a viscous two-dimensional electron system. *Physical Review B*, **2018**, 97,	3.3	18
161	Electron transport in suspended semiconductor structures with two-dimensional electron gas. *Applied Physics Letters*, **2012**, 100, 181902	3.4	17
160	Blockade of tunneling in a suspended single-electron transistor. *JETP Letters*, **2008**, 87, 150-153	1.2	17
159	Piezoelectric Electromechanical Coupling in Nanomechanical Resonators with a Two-Dimensional Electron Gas. *Physical Review Letters*, **2016**, 117, 017702	7.4	15
158	High-order fractional microwave-induced resistance oscillations in two-dimensional systems. *Physical Review B*, **2009**, 80,	3.3	15
157	Reentrant quantum Hall effect and anisotropic transport in a bilayer system at high filling factors. *Physical Review Letters*, **2007**, 99, 126804	7.4	15
156	Coulomb blockade and the thermopower of a suspended quantum dot. *JETP Letters*, **2006**, 83, 122-126	1.2	15

155	Excitonic polaritons in semiconductor solid solutions AlxGa1−xAs. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2005**, 2, 900-905		15
154	Hall effect in a spatially fluctuating magnetic field with zero mean. *Physical Review B*, **2000**, 61, 5505-5510	3.3	15
153	Terahertz radiation-induced magnetoresistance oscillations of a high-density and high-mobility two-dimensional electron gas. *JETP Letters*, **2013**, 97, 41-44	1.2	14
152	Microwave-Induced Magneto-Oscillations and Signatures of Zero-Resistance States in Phonon-Drag Voltage in Two-Dimensional Electron Systems. *Physical Review Letters*, **2015**, 115, 206801	7.4	14
151	Thermally activated intersubband scattering and oscillating magnetoresistance in quantum wells. *Physical Review B*, **2010**, 82,	3.3	14
150	Evidence for zero-differential resistance states in electronic bilayers. *Physical Review B*, **2011**, 83,	3.3	14
149	Interlayer interference in double wells in a tilted magnetic field. *Physical Review B*, **2008**, 78,	3.3	14
148	Monolithically integrated single quantum dots coupled to bowtie nanoantennas. *Optics Express*, **2016**, 24, 28936-28944	3.3	14
147	Actuation and transduction of resonant vibrations in GaAs/AlGaAs-based nanoelectromechanical systems containing two-dimensional electron gas. *Applied Physics Letters*, **2015**, 106, 183110	3.4	13
146	Lateral-electric-field-induced spin polarization in a suspended GaAs quantum point contact. *Applied Physics Letters*, **2018**, 112, 082102	3.4	13
145	Magnetotransport properties of a ballistic ring interferometer on the basis of a GaAs quantum well with a high concentration of 2D electron gas. *JETP Letters*, **2000**, 72, 209-212	1.2	13
144	High-speed single-photon source based on self-organized quantum dots. *Semiconductor Science and Technology*, **2011**, 26, 014003	1.8	12
143	Electrically driven quantum dot single photon source. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 547-550		12
142	Coexistence of collective and single-particle effects in the photoresponse of a 2D electron gas to microwave radiation. *JETP Letters*, **2007**, 85, 576-580	1.2	12
141	Thermopower of a multiprobe ballistic conductor. *Physical Review B*, **2002**, 66,	3.3	12
140	The features of ballistic electron transport in a suspended quantum point contact. *Applied Physics Letters*, **2014**, 104, 203102	3.4	11
139	Absolute negative resistance in a nonequilibrium two-dimensional electron system in a strong magnetic field. *JETP Letters*, **2008**, 86, 608-611	1.2	11
138	Resonant Raman scattering in nanostructures with InGaAs/AlAs quantum dots. *JETP Letters*, **2006**, 83, 505-508	1.2	11

137	Interface phonons in semiconductor nanostructures with quantum dots. *Journal of Experimental and Theoretical Physics*, **2005**, 101, 554-561	1	11
136	Magnetointersubband resistance oscillations in GaAs quantum wells placed in a tilted magnetic field. *Physical Review B*, **2016**, 93,	3.3	10
135	Giant microwave photo-conductance of a tunnel point contact with a bridged gate. *Applied Physics Letters*, **2015**, 107, 072112	3.4	10
134	Magnetic-field-induced transition in a wide parabolic well superimposed with a superlattice. *Physical Review B*, **2010**, 81,	3.3	10
133	Long-lived nanosecond spin coherence in high-mobility 2DEGs confined in double and triple quantum wells. *Journal of Applied Physics*, **2016**, 119, 215701	2.5	10
132	Fine structure of the exciton states in InAs quantum dots. *JETP Letters*, **2013**, 97, 274-278	1.2	9
131	Ballistic magnetotransport in a suspended two-dimensional electron gas with periodic antidot lattices. *Semiconductors*, **2017**, 51, 8-13	0.7	9
130	Resonant optical control of the electrically induced spin polarization by periodic excitation. *Physical Review B*, **2014**, 90,	3.3	9
129	Influence of the additional p+ doped layers on the properties of AlGaAs/InGaAs/AlGaAs heterostructures for high power SHF transistors. *Journal Physics D: Applied Physics*, **2016**, 49, 095108	3	9
128	Macroscopic transverse drift of long current-induced spin coherence in two-dimensional electron gases. *Physical Review B*, **2016**, 94,	3.3	8
127	Quantum dots formed in InSb/AlAs and AlSb/AlAs heterostructures. *JETP Letters*, **2016**, 103, 692-698	1.2	8
126	The role of Euler buckling instability in the fabrication of nanoelectromechanical systems on the basis of GaAs/AlGaAs heterostructures. *Applied Physics Letters*, **2012**, 101, 241916	3.4	8
125	High-amplitude dynamics of nanoelectromechanical systems fabricated on the basis of GaAs/AlGaAs heterostructures. *Applied Physics Letters*, **2013**, 103, 131905	3.4	8
124	Beats of Quantum Oscillations of the Resistance in Two-Subband Electron Systems in Tilted Magnetic Fields. *JETP Letters*, **2019**, 109, 400-405	1.2	7
123	Spectroscopic evidence of quantum Hall interlayer tunneling gap collapse caused by tilted magnetic field in a GaAs/AlGaAs triple quantum well. *Physical Review B*, **2014**, 89,	3.3	7
122	A study of disorder effects in random (AlxGa1−xAs)n(AlyGa1−yAs)m superlattices embedded in a wide parabolic potential. *Applied Physics Letters*, **2010**, 96, 113106	3.4	7
121	Emergent and reentrant fractional quantum Hall effect in trilayer systems in a tilted magnetic field. *Physical Review B*, **2009**, 80,	3.3	7
120	Circularly polarized photoluminescence as a probe of density of states in GaAs/AlGaAs quantum Hall bilayers. *Physical Review Letters*, **2012**, 109, 046802	7.4	7

119	Gate control of the spin mobility through the modification of the spin-orbit interaction in two-dimensional systems. *Physical Review B*, **2017**, 95,	3.3	6
118	Microwave photoresistance in a two-dimensional electron system with anisotropic mobility. *JETP Letters*, **2008**, 86, 779-782	1.2	6
117	Giant hysteresis of magnetoresistance in the quantum hall effect regime. *JETP Letters*, **2007**, 86, 264-267	1.2	6
116	Oscillations of the magnetoresistance of a two-dimensional electron gas in a GaAs quantum well with AlAs/GaAs superlattice barriers in a microwave field. *JETP Letters*, **2005**, 81, 284-286	1.2	6
115	Dephasing and interwell transitions in double quantum well heterostructures. *Physical Review B*, **2010**, 82,	3.3	5
114	Resonance breakdown of a Coulomb blockade due to the mechanical vibrations of a quantum dot. *JETP Letters*, **2009**, 90, 574-577	1.2	5
113	Microwave-induced Hall resistance in bilayer electron systems. *Physical Review B*, **2011**, 83,	3.3	5
112	Interaction correction to conductivity of AlxGa1−xAs/GaAs double quantum well heterostructures near the balance. *Physical Review B*, **2011**, 84,	3.3	5
111	Quantum oscillations of spin polarization in a GaAs/AlGaAs double quantum well. *Physical Review B*, **2012**, 86,	3.3	5
110	Single-mode vertical-cavity surface emitting lasers for 87Rb-based chip-scale atomic clock. *Semiconductors*, **2010**, 44, 1422-1426	0.7	5
109	Resonance backscattering in submicron rings. *JETP Letters*, **2003**, 78, 30-33	1.2	5
108	Semiclassical negative magnetoresistance of a 2D electron gas caused by scattering by short-range and long-range potentials. *JETP Letters*, **2003**, 78, 134-137	1.2	5
107	Anisotropy of magnetic transport and self-organization of corrugated heterointerfaces in selectively doped structures on GaAs(100) substrates. *JETP Letters*, **2001**, 74, 164-167	1.2	5
106	Vertical longitudinal magnetoresistance of semiconductor superlattices. *Physical Review B*, **2001**, 63,	3.3	5
105	Large anisotropic spin relaxation time of exciton bound to donor states in triple quantum wells. *Journal of Applied Physics*, **2017**, 121, 205703	2.5	4
104	Efficient single-photon emitters based on Bragg microcavities containing selectively positioned InAs quantum dots. *Semiconductors*, **2015**, 49, 33-38	0.7	4
103	Stokes flow around an obstacle in viscous two-dimensional electron liquid. *Scientific Reports*, **2020**, 10, 7860	4.9	4
102	Magnetocapacitance oscillations and thermoelectric effect in a two-dimensional electron gas irradiated by microwaves. *Physical Review B*, **2016**, 94,	3.3	4

101	Increasing Saturated Electron-Drift Velocity in Donor–Acceptor Doped pHEMT Heterostructures. *Technical Physics Letters*, **2018**, 44, 260-262	0.7	4
100	Microwave-induced zero-resistance states in a high-mobility two-subband electron system. *Journal Physics D: Applied Physics*, **2018**, 51, 28LT01	3	4
99	Microwave-induced nonlocal transport in a two-dimensional electron system. *Physical Review B*, **2014**, 89,	3.3	4
98	Magnetic field induced charge redistribution in artificially disordered quantum Hall superlattices. *Europhysics Letters*, **2012**, 97, 17010	1.6	4
97	Nonequilibrium state of the two-dimensional electron gas in the integer quantum Hall effect regime. *JETP Letters*, **2009**, 89, 46-49	1.2	4
96	Effect of an in-plane magnetic field on magnetoresistance hysteresis of the two-dimensional electron gas in the integer quantum Hall effect regime. *JETP Letters*, **2009**, 89, 92-95	1.2	4
95	Magneto-optical probe of quantum Hall states in a wide parabolic well modulated by random potential. *Physical Review B*, **2012**, 85,	3.3	4
94	Negative magnetoresistance of a high-mobility two-dimensional electron gas in a nonlinear regime. *JETP Letters*, **2005**, 81, 406-408	1.2	4
93	Spin-dependent Hall effect in a parabolic well with a quasi-three-dimensional electron gas. *Physical Review B*, **2005**, 71,	3.3	4
92	Identification of photoluminescence bands in AlGaAs/InGaAs/GaAs PHEMT heterostructures with donor-acceptor-doped barriers. *Semiconductors*, **2015**, 49, 224-228	0.7	3
91	Electron-nuclei interaction in the X valley of (In,Al)As/AlAs quantum dots. *Physical Review B*, **2020**, 101,	3.3	3
90	Formation of low-dimensional structures in the InSb/AlAs heterosystem. *Semiconductors*, **2017**, 51, 1233–1239	0.7	3
89	Hysteretic phenomena in a 2DEG in the quantum Hall effect regime, studied in a transport experiment. *Semiconductors*, **2014**, 48, 1423-1431	0.7	3
88	Magneto-intersubband oscillations in triple quantum wells. *Physica E: Low-Dimensional Systems and Nanostructures*, **2010**, 42, 1088-1090	3	3
87	Ultralow-threshold cryogenic vertical-cavity surface-emitting laser with AlAsoxide–GaAs distributed Bragg reflectors. *Journal of Applied Physics*, **2004**, 96, 1289-1292	2.5	3
86	Anisotropic positive magnetoresistance of a nonplanar 2D electron gas in a parallel pagnetic field. *JETP Letters*, **2004**, 79, 495-498	1.2	3
85	The formation of inas quantum dotsin an aluminum oxide matrix. *Technical Physics Letters*, **2002**, 28, 554-556	0.7	3
84	Observation of commensurability oscillations of thermopower in an antidot lattice. *JETP Letters*, **2005**, 81, 462-466	1.2	3

83	Nonlinear AC and DC Conductivities in a Two-Subband n-GaAs/AlAs Heterostructure. *JETP Letters*, **2020**, 112, 45-52	1.2	3
82	Low-temperature dissipation and its persistent photoinduced change in AlGaAs/GaAs-based nanomechanical resonators. *Applied Physics Letters*, **2020**, 116, 053104	3.4	2
81	Magnetophonon oscillations of thermoelectric power and combined resonance in two-subband electron systems. *Physical Review B*, **2016**, 94,	3.3	2
80	Excitonic spin-splitting in quantum wells with a tilted magnetic field. *Journal of Physics Condensed Matter*, **2016**, 28, 055503	1.8	2
79	Tailoring multilayer quantum wells for spin devices **2018**, 91, 1		2
78	Mobility of the Two-Dimensional Electron Gas in DA-pHEMT Heterostructures with Various δ-Layer Profile Widths. *Semiconductors*, **2018**, 52, 44-52	0.7	2
77	Tuning of the Landé g-factor in AlxGa1−xAs/AlAs single and double quantum wells. *Journal of Physics: Conference Series*, **2013**, 456, 012015	0.3	2
76	MBE-grown InSb photodetector arrays. *Technical Physics*, **2017**, 62, 915-919	0.5	2
75	Macroscopic transport of a current-induced spin polarization. *Journal of Physics: Conference Series*, **2017**, 864, 012060	0.3	2
74	Valence band tail states in disordered superlattices embedded in wide parabolic AlGaAs well. *Journal of Applied Physics*, **2012**, 111, 123523	2.5	2
73	Fractional quantum Hall effect in second subband of a 2DES. *Europhysics Letters*, **2011**, 94, 37010	1.6	2
72	QUANTUM HALL FERROMAGNET IN A DOUBLE WELL WITH VANISHING g-FACTOR. *International Journal of Modern Physics B*, **2009**, 23, 2933-2937	1.1	2
71	Shubnikov de Haas oscillations in double wells with opposite signs of the electronic g-factor. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 1560-1562	3	2
70	Mesoscopic fluctuations of thermopower in a periodic antidot lattice. *JETP Letters*, **2004**, 79, 166-170	1.2	2
69	Exciton recombination in δ-doped type-II GaAs/AlAs superlattices. *Semiconductors*, **2002**, 36, 461-465	0.7	2
68	Coulomb oscillations of conductance in an open ring interferometer in a strong magnetic field. *JETP Letters*, **2003**, 78, 642-645	1.2	2
67	Dependences of the Transport Scattering Time and Quantum Lifetime on the Two-Dimensional Electron Gas Density in Modulation-Doped Single GaAs Quantum Wells with AlAs/GaAs Short-Period Superlattice Barriers. *JETP Letters*, **2020**, 112, 437-443	1.2	2
66	Modulation of Magneto-Intersubband Oscillations in a One-Dimensional Lateral Superlattice. *JETP Letters*, **2019**, 110, 354-358	1.2	2

65	AC and DC Conductivities in an n-GaAs/AlAs Heterostructure with a Wide Quantum Well in the Integer Quantum Hall Effect Regime. *JETP Letters*, **2019**, 110, 68-73	1.2	2
64	Suspended quantum point contact with triple channel selectively driven by side gates. *Applied Physics Letters*, **2019**, 115, 152101	3.4	2
63	Temperature damping of magneto-intersubband resistance oscillations in magnetically entangled subbands. *Physical Review B*, **2021**, 104,	3.3	2
62	Determining the structure of energy in heterostructures with diffuse interfaces. *Bulletin of the Russian Academy of Sciences: Physics*, **2017**, 81, 1052-1057	0.4	1
61	AlInSb/InSb Heterostructures for IR Photodetectors Grown by Molecular-Beam Epitaxy. *Technical Physics Letters*, **2020**, 46, 154-157	0.7	1
60	Kinetics of Structural Changes on GaSb(001) Singular and Vicinal Surfaces During the UHV Annealing. *Semiconductors*, **2018**, 52, 664-666	0.7	1
59	Nonequilibrium currents in the quantum Hall effect regime spatially resolved by transport experiment. *Journal of Physics: Conference Series*, **2013**, 456, 012005	0.3	1
58	Ballistic thermopower of suspended semiconductor Hall bars with two dimensional electron gas. *Journal of Physics: Conference Series*, **2015**, 643, 012079	0.3	1
57	Emergent fractional quantum Hall effect at even denominator 3/2 in a triple quantum well in tilted magnetic fields. *Journal of Physics: Conference Series*, **2011**, 334, 012026	0.3	1
56	VALLEY SPLITTING AND g-FACTOR IN AlAs QUANTUM WELLS. *International Journal of Modern Physics B*, **2009**, 23, 2948-2954	1.1	1
55	Microwave induced magnetoresistance oscillations and inelastic scattering time in double quantum wells. *Physica E: Low-Dimensional Systems and Nanostructures*, **2010**, 42, 1075-1077	3	1
54	Hall breakdown in a modulation-doped GaAs/AlAs heterostructure. *JETP Letters*, **2007**, 85, 63-66	1.2	1
53	Geometrical resonance in the resistivity of wide quantum wells. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 13, 777-781	3	1
52	Commensurate oscillations of the magnetoresistance of a two-dimensional electron gas in GaAs quantum wells with corrugated heteroboundaries. *JETP Letters*, **2003**, 77, 662-665	1.2	1
51	Lateral photoconductivity of AlGaAs/InGaAs structures with quantum wells and self-organized quantum dots under interband illumination. *Semiconductors*, **2005**, 39, 103	0.7	1
50	Magnetoresistance in a stripe-shaped two-dimensional electron gas. *Physica B: Condensed Matter*, **2001**, 298, 79-82	2.8	1
49	Polariton luminescence in high-purity layers of AlGaAs solid solutions. *JETP Letters*, **2000**, 71, 148-150	1.2	1
48	Lasing characteristics of lasers with a vertical cavity based on In0.2Ga0.8As quantum wells. *Technical Physics Letters*, **1999**, 25, 775-777	0.7	1

47	Below bottleneck polaritonic radiation in ultra high quality AlGaAs alloys. *Springer Proceedings in Physics*, **2001**, 91-92	0.2	1
46	Manifestations of classical size effect and electronic viscosity in the magnetoresistance of narrow two-dimensional conductors: Theory and experiment. *Physical Review B*, **2020**, 101,	3.3	1
45	Electrostatic actuation and charge sensing in piezoelectric nanomechanical resonators with a two-dimensional electron gas. *Applied Physics Letters*, **2021**, 118, 183105	3.4	1
44	Structure and morphology of InSb epitaxial films in the AlAs matrix. *Nanotechnologies in Russia*, **2016**, 11, 12-19	0.6	1
43	Crossing and anticrossing of 1D subbands in a quantum point contact with in-plane side gates. *Applied Physics Letters*, **2021**, 118, 012104	3.4	1
42	High harmonics of the cyclotron resonance in microwave transmission of a high-mobility two-dimensional electron system. *Physical Review Research*, **2021**, 3,	3.9	1
41	Spinodal Decomposition in InSb/AlAs Heterostructures. *Semiconductors*, **2018**, 52, 1392-1397	0.7	1
40	The observation of the Aharonov-Bohm effect in suspended semiconductor ring interferometers. *Journal of Physics: Conference Series*, **2018**, 964, 012008	0.3	1
39	Robustness of spin polarization against temperature in multilayer structure: Triple quantum well. *Journal of Applied Physics*, **2018**, 123, 214306	2.5	1
38	Diffusion of Photoexcited Holes in a Viscous Electron Fluid.. *Physical Review Letters*, **2022**, 128, 136801	7.4	1
37	On-Chip Piezoelectric Actuation of Nanomechanical Resonators Containing a Two-Dimensional Electron Gas. *JETP Letters*, **2019**, 109, 261-265	1.2	0
36	Experimental analysis of the spin□orbit coupling dependence on the drift velocity of a spin packet. *AIP Advances*, **2020**, 10, 065232	1.5	0
35	Nonequilibrium chemical potential in a two-dimensional electron gas in the quantum-Hall-effect regime. *Semiconductors*, **2016**, 50, 1049-1053	0.7	0
34	Suppression of Magneto-Intersubband Resistance Oscillations by Large-Scale Fluctuations of the Intersubband Energy Splitting. *JETP Letters*, **2021**, 114, 423-428	1.2	0
33	Double-Channel Electron Transport in Suspended Quantum Point Contacts with in-Plane Side Gates. *Semiconductors*, **2020**, 54, 1605-1610	0.7	0
32	Millimeter-Wave Donor□Acceptor-Doped DpHEMT. *IEEE Transactions on Electron Devices*, **2021**, 68, 53-56	2.9	0
31	The deformation-potential scattering and alloy disorder scattering in donor-acceptor pHEMT heterostructures. *IOP Conference Series: Materials Science and Engineering*, **2019**, 475, 012033	0.4	
30	Multiperiodic Spin Precession of the Optically Induced Spin Polarization in ({hbox {Al}}_{x}{hbox {Ga}}_{1-x}{hbox {As/AlAs}}) Single Quantum Well **2020**, 44, 549-555		

29	Electromechanical coupling in suspended nanomechanical resonators with a two-dimensional electron gas. *Journal of Physics: Conference Series*, **2017**, 864, 012043	0.3
28	Spectroscopy of single InAs quantum dots. *Optoelectronics, Instrumentation and Data Processing*, **2013**, 49, 498-503	0.6
27	Shubnikov-de Haas effect in tilted magnetic fields in wide quantum well. *Journal of Physics: Conference Series*, **2013**, 456, 012025	0.3
26	Zero-resistance states in bilayer electron systems induced by microwave irradiation. *Journal of Physics: Conference Series*, **2011**, 334, 012014	0.3
25	MAGNETORESISTANCE OSCILLATIONS IN DOUBLE QUANTUM WELLS UNDER MICROWAVE IRRADIATION. *International Journal of Modern Physics B*, **2009**, 23, 2943-2947	1.1
24	Single-mode vertical-cavity surface-emitting lasers for atomic clocks. *Optoelectronics, Instrumentation and Data Processing*, **2009**, 45, 361-366	0.6
23	Magnetotransport in a wide parabolic well superimposed with a superlattice. *Journal of Applied Physics*, **2011**, 109, 102403	2.5
22	Magnetoresistance oscillations in triple quantum wells under microwave irradiation. *Physica E: Low-Dimensional Systems and Nanostructures*, **2010**, 42, 2614-2617	3
21	Integer and fractional microwave induced resistance oscillations in a 2D system with moderate mobility. *Physica E: Low-Dimensional Systems and Nanostructures*, **2010**, 42, 1078-1080	3
20	Reentrant quantum Hall effect in bilayer system at high filling factors. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 1576-1578	3
19	Prolonged decay of free-to-bound photoluminescence in direct band gap InGaAs and AlGaAs alloys: magnetic resonance studies. *Semiconductor Science and Technology*, **2006**, 21, 105-111	1.8
18	Electrically pumped InAs single quantum dot emitter **2006**, 6350, 80	
17	Exciton-polariton transition induced by elastic exciton-exciton collisions in ultrahigh quality AlGaAs alloys. *Semiconductors*, **2006**, 40, 527-533	0.7
16	Influence of Fermi-system chirality on the temperature dependence of the Aharonov-Bohm effect. *JETP Letters*, **2004**, 79, 28-31	1.2
15	Power Microwave FETs Using Epitaxial AlGaAs/GaAs Structures. *Russian Microelectronics*, **2002**, 31, 137-142	0.5
14	Recombination of excitons bound on donor□cceptor impurity pairs in □doped type II GaAs/AlAs superlattices. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2003**, 657-660	
13	Ring interferometer on the basis of 2D electron gas in a double quantum well. *JETP Letters*, **2003**, 78, 560-563	1.2
12	Long-time photoluminescence kinetics of InAs/AlAs quantum dots in a magnetic field. *Semiconductors*, **2005**, 39, 27	0.7

11	Raman spectroscopy of self-assembled InAs quantum dots in wide-bandgap matrices of AlAs and aluminium oxide. *Materials Research Society Symposia Proceedings*, **2002**, 737, 144	
10	Oscillation of the mirror and fractional RHEED reflections during homoepitaxy on the (2×4)-reconstructed GaAs(001) surface. *Technical Physics Letters*, **2000**, 26, 307-310	0.7
9	Optical phonons in nanosize GaAs and AlAs clusters in an InAs matrix. *JETP Letters*, **1999**, 70, 469-475	1.2
8	New Type of Heterostructures for Powerful pHEMT Transistors. *Optoelectronics, Instrumentation and Data Processing*, **2020**, 56, 478-484	0.6
7	Blockade of tunneling in a suspended single-electron transistor **2010**, 87, 150	
6	AlSb/InAs Heterostructures for Microwave Transistors. *Technical Physics Letters*, **2021**, 47, 139-142	0.7
5	Electrically controlled spin polarization in suspended GaAs quantum point contacts. *Journal of Physics: Conference Series*, **2018**, 1124, 061001	0.3
4	Elastic Properties of Suspended Conducting GaAs/AlGaAs Nanostructures by Means of Atomic Force Microscopy. *Optoelectronics, Instrumentation and Data Processing*, **2018**, 54, 496-501	0.6
3	Determination of Electron Temperature in DA-pHEMT Heterostructures by Shubnikov–de Haas Oscillation Method. *Russian Physics Journal*, **2018**, 61, 1202-1209	0.7
2	A Millimeter-Wave Field-Effect Transistor Based on a Pseudomorphic Heterostructure with an Additional Potential Barrier. *Technical Physics Letters*, **2021**, 47, 329-332	0.7
1	Vertical-Cavity Surface-Emitting Lasers for Miniature Quantum Frequency Standards. *Optoelectronics, Instrumentation and Data Processing*, **2021**, 57, 445-450	0.6