Alexey A A Bykov

List of Publications by Citations

64 papers	502 citations	12 h-index	19 g-index
65 ext. papers	535 ext. citations	1.3 avg, IF	3.83 L-index

#	Paper	IF	Citations
64	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
63	Microwave photoresistance of a double quantum well at high filling factors. *JETP Letters*, **2008**, 87, 477-481	1.2	32
62	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
61	Microwave-induced magnetic field oscillations of the electromotive force in a two-dimensional Corbino disk at large filling factors. *JETP Letters*, **2008**, 87, 233-237	1.2	30
60	General regularities of magnetoresistive effects in the polycrystalline yttrium and bismuth high-temperature superconductor systems. *Physics of the Solid State*, **2011**, 53, 922-932	0.8	26
59	Transport relaxation time and quantum lifetime in selectively doped GaAs/AlAs heterostructures. *JETP Letters*, **2012**, 95, 420-423	1.2	22
58	Nonlinear magnetotransport in a high-mobility quasi-two-dimensional electron system. *JETP Letters*, **2008**, 88, 64-68	1.2	18
57	Microwave-induced magnetic field state with zero conductivity in GaAs/AlAs Corbino disks and hall bars. *JETP Letters*, **2008**, 87, 551-554	1.2	17
56	Temperature dependence of magnetophonon resistance oscillations in GaAs/AlAs heterostructures at high filling factors. *JETP Letters*, **2009**, 90, 578-581	1.2	16
55	Zener tunneling between Landau levels in a double quantum well at high filling factors. *JETP Letters*, **2008**, 88, 394-397	1.2	16
54	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
53	Spatial inhomogeneity of the microwave-induced electronic states with zero conductivity in Corbino disks at high filling factors. *JETP Letters*, **2010**, 91, 361-364	1.2	12
52	Magnetoresistance hysteresis of bulk textured Bi1.8Pb0.3Sr1.9Ca2Cu3Ox+Ag ceramics and its anisotropy. *Physica C: Superconductivity and Its Applications*, **2010**, 470, 61-67	1.3	12
51	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
50	Absolute negative resistance in a nonequilibrium two-dimensional electron system in a strong magnetic field. *JETP Letters*, **2008**, 86, 608-611	1.2	11
49	Zero differential resistance in a double quantum well at high filling factors. *JETP Letters*, **2010**, 92, 475-478	1.2	10
48	Single-electron charging of triangular quantum dots in a ring interferometer. *Journal of Experimental and Theoretical Physics*, **2003**, 97, 317-330	1	10

47	Contributions from Inter-grain Boundaries to the Magneto-resistive Effect in Polycrystalline High-T C Superconductors. The Underlying Reason of Different Behavior for YBCO and BSCCO Systems. *Journal of Superconductivity and Novel Magnetism*, **2011**, 24, 2129-2136	1.5	9
46	Nonlinear Hall effect in a quasi-two-dimensional electron system. *JETP Letters*, **2009**, 89, 461-465	1.2	9
45	Microwave photoresistance of a two-dimensional electron gas in a ballistic microbar. *JETP Letters*, **2009**, 89, 575-578	1.2	9
44	Transport poperties of a GaAs/AlGaAs ring interferometer in the tunneling regime. *JETP Letters*, **2000**, 71, 434-437	1.2	8
43	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
42	Zener tunneling between the landau levels in quasi-two-dimensional electronic Corbino disks at large filling factors. *JETP Letters*, **2013**, 96, 803-806	1.2	7
41	Magneto-intersubband zener tunneling in a wide GaAs quantum well at high filling factors. *JETP Letters*, **2011**, 94, 535-538	1.2	7
40	Interference of commensurate and microwave-induced oscillations of the magnetoresistance of a two-dimensional electron gas in a one-dimensional lateral superlattice. *JETP Letters*, **2015**, 101, 703-707	1.2	6
39	Microwave photoresistance in a two-dimensional electron system with anisotropic mobility. *JETP Letters*, **2008**, 86, 779-782	1.2	6
38	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
37	Pulsed solenoid with nanostructured Cu-Nb wire winding. *Journal of Surface Investigation*, **2015**, 9, 111-115	0.5	5
36	Resonance backscattering in submicron rings. *JETP Letters*, **2003**, 78, 30-33	1.2	5
35	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
34	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
33	Quasi-two-dimensional character of the magnetic order-disorder transition in YMn6Sn6. *JETP Letters*, **2015**, 101, 699-702	1.2	4
32	Superconductivity on Interfaces of Nonsuperconducting Granules La2CuO4 and La1.56Sr0.44CuO4. *Journal of Superconductivity and Novel Magnetism*, **2018**, 31, 3867-3874	1.5	4
31	Flux pinning mechanisms and a vortex phase diagram of tin-based inverse opals. *Superconductor Science and Technology*, **2019**, 32, 115004	3.1	4
30	Microwave-induced giant oscillations of the magnetoconductivity in 2D electronic corbino disks with capacitance contacts. *JETP Letters*, **2010**, 92, 71-73	1.2	4

29	Non-linear current–voltage characteristics of (La0.5Eu0.5)0.7Pb0.3MnO3 single crystals: Possible manifestation of the internal heating of chargecarriers. *Physica B: Condensed Matter*, **2010**, 405, 4961-4965	2.8	4
28	Negative magnetoresistance of a high-mobility two-dimensional electron gas in a nonlinear regime. *JETP Letters*, **2005**, 81, 406-408	1.2	4
27	Effect of Trapped Magnetic Flux on Neutron Scattering in La1.85Sr0.15CuO4 Superconductor. *Journal of Superconductivity and Novel Magnetism*, **2019**, 32, 3797-3802	1.5	3
26	Magnetic oscillations of microwave transmission in a quantum well with two populated subbands. *JETP Letters*, **2015**, 100, 786-789	1.2	3
25	Nonlinear magnetotransport in a two-dimensional electron system with anisotropic mobility. *JETP Letters*, **2014**, 98, 717-721	1.2	3
24	Resonance microwave photoresistance of a two-subband electron system at large filling factors. *JETP Letters*, **2010**, 92, 379-382	1.2	3
23	Anisotropic positive magnetoresistance of a nonplanar 2D electron gas in a parallel pagnetic field. *JETP Letters*, **2004**, 79, 495-498	1.2	3
22	Nonlinear AC and DC Conductivities in a Two-Subband n-GaAs/AlAs Heterostructure. *JETP Letters*, **2020**, 112, 45-52	1.2	3
21	Microwave-Induced Magneto-Intersubband Scattering in a Square Lattice of Antidots. *JETP Letters*, **2019**, 110, 672-676	1.2	3
20	Zero differential resistance of a two-dimensional electron gas in a one-dimensional periodic potential at high filling factors. *JETP Letters*, **2016**, 104, 257-262	1.2	2
19	Fractal dimension of cluster boundaries in porous polycrystalline HTSC materials. *Physics of the Solid State*, **2012**, 54, 1947-1950	0.8	2
18	Magnetoresistance of substituted lanthanum manganites La0.7Ca0.3MnO3 upon nonequilibrium overheating of carriers. *Journal of Applied Physics*, **2011**, 109, 083711	2.5	2
17	Coulomb oscillations of conductance in an open ring interferometer in a strong magnetic field. *JETP Letters*, **2003**, 78, 642-645	1.2	2
16	Amplitude of Aharonov-Bohm oscillations in a small semiconductor ring interferometer in the tunneling regime. *JETP Letters*, **2005**, 82, 89-92	1.2	2
15	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
14	Modulation of Magneto-Intersubband Oscillations in a One-Dimensional Lateral Superlattice. *JETP Letters*, **2019**, 110, 354-358	1.2	2
13	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
12	Zener Tunneling between the Landau Levels in a Two-Dimensional Electron System with One-Dimensional Periodic Modulation. *JETP Letters*, **2018**, 108, 121-126	1.2	2

List of Publications

11	Nonlinear magnetotransport in a two-dimensional electron system in a square array of antidots in GaAs/AlAs heterostructures. *JETP Letters*, **2014**, 99, 303-308	1.2	1
10	Relaxation of magnetoresistance of single-crystalline (La0.5Eu0.5)0.7Pb0.3MnO3 in a pulsed magnetic field. *Technical Physics Letters*, **2012**, 38, 1080-1082	0.7	1
9	Hall breakdown in a modulation-doped GaAs/AlAs heterostructure. *JETP Letters*, **2007**, 85, 63-66	1.2	1
8	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
7	Magnetic phase diagram of Y 1− Tb x Mn 6 Sn 6 compounds. *Journal of Magnetism and Magnetic Materials*, **2017**, 424, 347-351	2.8	0
6	Suppression of Magneto-Intersubband Resistance Oscillations by Large-Scale Fluctuations of the Intersubband Energy Splitting. *JETP Letters*, **2021**, 114, 423-428	1.2	0
5	Design of a Single-Crystal Diffractometer for the PIK Reactor. *Journal of Surface Investigation*, **2019**, 13, 898-907	0.5	
4	Two-dimensional antiferromagnetic correlations in an La1.4Sr1.6(Mn0.9Co0.1)2O7 single crystal. *Journal of Experimental and Theoretical Physics*, **2017**, 124, 786-791	1	
3	Influence of Fermi-system chirality on the temperature dependence of the Aharonov-Bohm effect. *JETP Letters*, **2004**, 79, 28-31	1.2	
2	Ring interferometer on the basis of 2D electron gas in a double quantum well. *JETP Letters*, **2003**, 78, 560-563	1.2	
1	Diffusion of Strontium in the Intergranular Boundaries of La2 −xSrxCuO4. *Russian Journal of Physical Chemistry A*, **2021**, 95, 1165-1168	0.7	