

# Alexey A A Bykov

## 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.

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	Suppression of Magneto-Intersubband Resistance Oscillations by Large-Scale Fluctuations of the Intersubband Energy Splitting. <i>JETP Letters</i> , <b>2021</b> , 114, 423-428	1.2	0
63	Diffusion of Strontium in the Intergranular Boundaries of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ . <i>Russian Journal of Physical Chemistry A</i> , <b>2021</b> , 95, 1165-1168	0.7	
62	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. <i>JETP Letters</i> , <b>2020</b> , 112, 437-443	1.2	2
61	Nonlinear AC and DC Conductivities in a Two-Subband n-GaAs/AlAs Heterostructure. <i>JETP Letters</i> , <b>2020</b> , 112, 45-52	1.2	3
60	Effect of Trapped Magnetic Flux on Neutron Scattering in $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$ Superconductor. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2019</b> , 32, 3797-3802	1.5	3
59	Beats of Quantum Oscillations of the Resistance in Two-Subband Electron Systems in Tilted Magnetic Fields. <i>JETP Letters</i> , <b>2019</b> , 109, 400-405	1.2	7
58	Flux pinning mechanisms and a vortex phase diagram of tin-based inverse opals. <i>Superconductor Science and Technology</i> , <b>2019</b> , 32, 115004	3.1	4
57	Design of a Single-Crystal Diffractometer for the PIK Reactor. <i>Journal of Surface Investigation</i> , <b>2019</b> , 13, 898-907	0.5	
56	Microwave-Induced Magneto-Intersubband Scattering in a Square Lattice of Antidots. <i>JETP Letters</i> , <b>2019</b> , 110, 672-676	1.2	3
55	Modulation of Magneto-Intersubband Oscillations in a One-Dimensional Lateral Superlattice. <i>JETP Letters</i> , <b>2019</b> , 110, 354-358	1.2	2
54	AC and DC Conductivities in an n-GaAs/AlAs Heterostructure with a Wide Quantum Well in the Integer Quantum Hall Effect Regime. <i>JETP Letters</i> , <b>2019</b> , 110, 68-73	1.2	2
53	Superconductivity on Interfaces of Nonsuperconducting Granules $\text{La}_2\text{CuO}_4$ and $\text{La}_{1.56}\text{Sr}_{0.44}\text{CuO}_4$ . <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2018</b> , 31, 3867-3874	1.5	4
52	Zener Tunneling between the Landau Levels in a Two-Dimensional Electron System with One-Dimensional Periodic Modulation. <i>JETP Letters</i> , <b>2018</b> , 108, 121-126	1.2	2
51	Two-dimensional antiferromagnetic correlations in an $\text{La}_{1.4}\text{Sr}_{1.6}(\text{Mn}_{0.9}\text{Co}_{0.1})_2\text{O}_7$ single crystal. <i>Journal of Experimental and Theoretical Physics</i> , <b>2017</b> , 124, 786-791	1	
50	Magnetic phase diagram of $\text{Y}_{1-x}\text{Tb}_x\text{Mn}_6\text{Sn}_6$ compounds. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 424, 347-351	2.8	0
49	Zero differential resistance of a two-dimensional electron gas in a one-dimensional periodic potential at high filling factors. <i>JETP Letters</i> , <b>2016</b> , 104, 257-262	1.2	2
48	Magnetic oscillations of microwave transmission in a quantum well with two populated subbands. <i>JETP Letters</i> , <b>2015</b> , 100, 786-789	1.2	3

47	Quasi-two-dimensional character of the magnetic order-disorder transition in YMn6Sn6. <i>JETP Letters</i> , <b>2015</b> , 101, 699-702	1.2	4
46	Interference of commensurate and microwave-induced oscillations of the magnetoresistance of a two-dimensional electron gas in a one-dimensional lateral superlattice. <i>JETP Letters</i> , <b>2015</b> , 101, 703-707	1.2	6
45	Pulsed solenoid with nanostructured Cu-Nb wire winding. <i>Journal of Surface Investigation</i> , <b>2015</b> , 9, 111-115	1.2	5
44	Nonlinear magnetotransport in a two-dimensional electron system with anisotropic mobility. <i>JETP Letters</i> , <b>2014</b> , 98, 717-721	1.2	3
43	Nonlinear magnetotransport in a two-dimensional electron system in a square array of antidots in GaAs/AlAs heterostructures. <i>JETP Letters</i> , <b>2014</b> , 99, 303-308	1.2	1
42	Zener tunneling between the Landau levels in quasi-two-dimensional electronic Corbino disks at large filling factors. <i>JETP Letters</i> , <b>2013</b> , 96, 803-806	1.2	7
41	Transport relaxation time and quantum lifetime in selectively doped GaAs/AlAs heterostructures. <i>JETP Letters</i> , <b>2012</b> , 95, 420-423	1.2	22
40	Fractal dimension of cluster boundaries in porous polycrystalline HTSC materials. <i>Physics of the Solid State</i> , <b>2012</b> , 54, 1947-1950	0.8	2
39	Relaxation of magnetoresistance of single-crystalline (La <sub>0.5</sub> Eu <sub>0.5</sub> ) <sub>0.7</sub> Pb <sub>0.3</sub> MnO <sub>3</sub> in a pulsed magnetic field. <i>Technical Physics Letters</i> , <b>2012</b> , 38, 1080-1082	0.7	1
38	Magnetoresistance of substituted lanthanum manganites La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> upon nonequilibrium overheating of carriers. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 083711	2.5	2
37	Magneto-intersubband zener tunneling in a wide GaAs quantum well at high filling factors. <i>JETP Letters</i> , <b>2011</b> , 94, 535-538	1.2	7
36	General regularities of magnetoresistive effects in the polycrystalline yttrium and bismuth high-temperature superconductor systems. <i>Physics of the Solid State</i> , <b>2011</b> , 53, 922-932	0.8	26
35	Contributions from Inter-grain Boundaries to the Magneto-resistive Effect in Polycrystalline High-T <sub>c</sub> Superconductors. The Underlying Reason of Different Behavior for YBCO and BSCCO Systems. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2011</b> , 24, 2129-2136	1.5	9
34	Spatial inhomogeneity of the microwave-induced electronic states with zero conductivity in Corbino disks at high filling factors. <i>JETP Letters</i> , <b>2010</b> , 91, 361-364	1.2	12
33	Microwave-induced giant oscillations of the magnetoconductivity in 2D electronic Corbino disks with capacitance contacts. <i>JETP Letters</i> , <b>2010</b> , 92, 71-73	1.2	4
32	Resonance microwave photoresistance of a two-subband electron system at large filling factors. <i>JETP Letters</i> , <b>2010</b> , 92, 379-382	1.2	3
31	Zero differential resistance in a double quantum well at high filling factors. <i>JETP Letters</i> , <b>2010</b> , 92, 475-478	1.2	10
30	Non-linear current-voltage characteristics of (La <sub>0.5</sub> Eu <sub>0.5</sub> ) <sub>0.7</sub> Pb <sub>0.3</sub> MnO <sub>3</sub> single crystals: Possible manifestation of the internal heating of chargecarriers. <i>Physica B: Condensed Matter</i> , <b>2010</b> , 405, 4961-4965	2.8	4

29	Magnetoresistance hysteresis of bulk textured Bi <sub>1.8</sub> Pb <sub>0.3</sub> Sr <sub>1.9</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> +Ag ceramics and its anisotropy. <i>Physica C: Superconductivity and Its Applications</i> , <b>2010</b> , 470, 61-67	1.3	12
28	Nonlinear Hall effect in a quasi-two-dimensional electron system. <i>JETP Letters</i> , <b>2009</b> , 89, 461-465	1.2	9
27	Microwave photoresistance of a two-dimensional electron gas in a ballistic microbar. <i>JETP Letters</i> , <b>2009</b> , 89, 575-578	1.2	9
26	Temperature dependence of magnetophonon resistance oscillations in GaAs/AlAs heterostructures at high filling factors. <i>JETP Letters</i> , <b>2009</b> , 90, 578-581	1.2	16
25	Absolute negative resistance in a nonequilibrium two-dimensional electron system in a strong magnetic field. <i>JETP Letters</i> , <b>2008</b> , 86, 608-611	1.2	11
24	Microwave photoresistance in a two-dimensional electron system with anisotropic mobility. <i>JETP Letters</i> , <b>2008</b> , 86, 779-782	1.2	6
23	Microwave-induced magnetic field oscillations of the electromotive force in a two-dimensional Corbino disk at large filling factors. <i>JETP Letters</i> , <b>2008</b> , 87, 233-237	1.2	30
22	Microwave photoresistance of a double quantum well at high filling factors. <i>JETP Letters</i> , <b>2008</b> , 87, 477-481	1.2	32
21	Microwave-induced magnetic field state with zero conductivity in GaAs/AlAs Corbino disks and hall bars. <i>JETP Letters</i> , <b>2008</b> , 87, 551-554	1.2	17
20	Nonlinear magnetotransport in a high-mobility quasi-two-dimensional electron system. <i>JETP Letters</i> , <b>2008</b> , 88, 64-68	1.2	18
19	Zener tunneling between Landau levels in a double quantum well at high filling factors. <i>JETP Letters</i> , <b>2008</b> , 88, 394-397	1.2	16
18	Hall breakdown in a modulation-doped GaAs/AlAs heterostructure. <i>JETP Letters</i> , <b>2007</b> , 85, 63-66	1.2	1
17	Coexistence of collective and single-particle effects in the photoresponse of a 2D electron gas to microwave radiation. <i>JETP Letters</i> , <b>2007</b> , 85, 576-580	1.2	12
16	Giant magnetoresistance oscillations induced by microwave radiation and a zero-resistance state in a 2D electron system with a moderate mobility. <i>JETP Letters</i> , <b>2006</b> , 84, 391-394	1.2	53
15	Oscillations of the magnetoresistance of a two-dimensional electron gas in a GaAs quantum well with AlAs/GaAs superlattice barriers in a microwave field. <i>JETP Letters</i> , <b>2005</b> , 81, 284-286	1.2	6
14	Negative magnetoresistance of a high-mobility two-dimensional electron gas in a nonlinear regime. <i>JETP Letters</i> , <b>2005</b> , 81, 406-408	1.2	4
13	Magnetophonon resonance in a GaAs quantum well with AlAs/GaAs superlattice barriers at high filling factors. <i>JETP Letters</i> , <b>2005</b> , 81, 523-526	1.2	31
12	Amplitude of Aharonov-Bohm oscillations in a small semiconductor ring interferometer in the tunneling regime. <i>JETP Letters</i> , <b>2005</b> , 82, 89-92	1.2	2

11	Influence of Fermi-system chirality on the temperature dependence of the Aharonov-Bohm effect. <i>JETP Letters</i> , <b>2004</b> , 79, 28-31	1.2	
10	Anisotropic positive magnetoresistance of a nonplanar 2D electron gas in a parallel magnetic field. <i>JETP Letters</i> , <b>2004</b> , 79, 495-498	1.2	3
9	Commensurate oscillations of the magnetoresistance of a two-dimensional electron gas in GaAs quantum wells with corrugated heteroboundaries. <i>JETP Letters</i> , <b>2003</b> , 77, 662-665	1.2	1
8	Single-electron charging of triangular quantum dots in a ring interferometer. <i>Journal of Experimental and Theoretical Physics</i> , <b>2003</b> , 97, 317-330	1	10
7	Resonance backscattering in submicron rings. <i>JETP Letters</i> , <b>2003</b> , 78, 30-33	1.2	5
6	Semiclassical negative magnetoresistance of a 2D electron gas caused by scattering by short-range and long-range potentials. <i>JETP Letters</i> , <b>2003</b> , 78, 134-137	1.2	5
5	Ring interferometer on the basis of 2D electron gas in a double quantum well. <i>JETP Letters</i> , <b>2003</b> , 78, 560-563	1.2	
4	Coulomb oscillations of conductance in an open ring interferometer in a strong magnetic field. <i>JETP Letters</i> , <b>2003</b> , 78, 642-645	1.2	2
3	Anisotropy of magnetic transport and self-organization of corrugated heterointerfaces in selectively doped structures on GaAs(100) substrates. <i>JETP Letters</i> , <b>2001</b> , 74, 164-167	1.2	5
2	Magnetotransport properties of a ballistic ring interferometer on the basis of a GaAs quantum well with a high concentration of 2D electron gas. <i>JETP Letters</i> , <b>2000</b> , 72, 209-212	1.2	13
1	Transport properties of a GaAs/AlGaAs ring interferometer in the tunneling regime. <i>JETP Letters</i> , <b>2000</b> , 71, 434-437	1.2	8