Leonid Kulik

List of Publications by Citations

89 papers	1,397 citations	17 h-index	36 g-index
92 ext. papers	1,516 ext. citations	3.3 avg, IF	4.02 L-index

#	Paper	IF	Citations
89	Electronic structure of the Mn4OxCa cluster in the S0 and S2 states of the oxygen-evolving complex of photosystem II based on pulse 55Mn-ENDOR and EPR spectroscopy. *Journal of the American Chemical Society*, **2007**, 129, 13421-35	16.4	208
88	Effect of Ca2+/Sr2+ substitution on the electronic structure of the oxygen-evolving complex of photosystem II: a combined multifrequency EPR, 55Mn-ENDOR, and DFT study of the S2 state. *Journal of the American Chemical Society*, **2011**, 133, 3635-48	16.4	190
87	55Mn pulse ENDOR at 34 GHz of the S0 and S2 states of the oxygen-evolving complex in photosystem II. *Journal of the American Chemical Society*, **2005**, 127, 2392-3	16.4	160
86	The electronic structures of the S(2) states of the oxygen-evolving complexes of photosystem II in plants and cyanobacteria in the presence and absence of methanol. *Biochimica Et Biophysica Acta - Bioenergetics*, **2011**, 1807, 829-40	4.6	75
85	Electron spin-lattice relaxation of the S0 state of the oxygen-evolving complex in photosystem II and of dinuclear manganese model complexes. *Biochemistry*, **2005**, 44, 9368-74	3.2	53
84	Carbon incorporation in Si1−yCy alloys grown by molecular beam epitaxy using a single silicon–graphite source. *Applied Physics Letters*, **1998**, 72, 833-835	3.4	49
83	Dielectric enhancement of excitons in near-surface quantum wells. *Physical Review B*, **1996**, 54, R2335-R2338	3.3	47
82	Cyclotron spin-flip mode as the lowest-energy excitation of unpolarized integer quantum Hall states. *Physical Review B*, **2005**, 72,	3.3	40
81	Pulse EPR, 55Mn-ENDOR and ELDOR-detected NMR of the S2-state of the oxygen evolving complex in photosystem II. *Photosynthesis Research*, **2005**, 84, 347-53	3.7	36
80	Excitons in near-surface quantum wells in magnetic fields: Experiment and theory. *Journal of Applied Physics*, **1998**, 83, 5410-5417	2.5	35
79	Super-long life time for 2D cyclotron spin-flip excitons. *Scientific Reports*, **2015**, 5, 10354	4.9	28
78	Extra spin-wave mode in quantum Hall systems: beyond the Skyrmion limit. *Physical Review Letters*, **2010**, 104, 136804	7.4	27
77	The effect of composition on the thermal stability of Si1−x−yGexCy/Si heterostructures. *Applied Physics Letters*, **1998**, 72, 1972-1974	3.4	24
76	Low-magnetic-field divergence of the electronic g factor obtained from the cyclotron spin-flip mode of the nu=1 quantum Hall ferromagnet. *Physical Review Letters*, **2006**, 97, 246801	7.4	23
75	Magnetofermionic condensate in two dimensions. *Nature Communications*, **2016**, 7, 13499	17.4	22
74	Inelastic light scattering study of the ν=1 quantum Hall ferromagnet. *Physical Review B*, **2008**, 77,	3.3	18
73	Cyclotron spin-flip excitations in the extreme quantum limit. *Physical Review B*, **2001**, 63,	3.3	18

72	Slow spin relaxation in a quantum Hall ferromagnet state. *Physical Review B*, **2014**, 89,	3.3	17
71	Magnetic-field-induced dispersion anisotropy of intersubband excitations in an asymmetrical quasi-two-dimensional electron system. *Physical Review B*, **2000**, 61, 1712-1715	3.3	17
70	Antiphased cyclotron-magnetoplasma mode in a quantum Hall system. *Physical Review B*, **2009**, 79,	3.3	16
69	Acoustical and optical magnetoplasma excitations in a bilayer electron system. *Physical Review B*, **2002**, 66,	3.3	16
68	Artificially Constructed Plasmarons and Plasmon-Exciton Molecules in 2D Metals. *Physical Review Letters*, **2016**, 117, 196802	7.4	15
67	Direct observation of the intersubband Bernstein modes: Many-body coupling with spin- and charge-density excitations. *Physical Review B*, **1999**, 59, R12751-R12754	3.3	15
66	Long-range non-diffusive spin transfer in a Hall insulator. *Scientific Reports*, **2018**, 8, 10948	4.9	14
65	Resonant Rayleigh scattering as a probe of spin polarization in a two-dimensional electron system. *Physical Review B*, **2012**, 85,	3.3	14
64	Collective spin precession excitations in a two-dimensional quantum Hall ferromagnet. *Physical Review B*, **2013**, 87,	3.3	12
63	Goldstone mode stochastization in a quantum Hall ferromagnet. *Physical Review B*, **2015**, 92,	3.3	10
62	Interaction between intersubband Bernstein modes and coupled plasmon-phonon modes. *Physical Review B*, **2000**, 61, 12717-12720	3.3	10
61	Dielectric enhancement of magnetoexcitons in surface quantum wells. *JETP Letters*, **1996**, 64, 51-56	1.2	10
60	Three-particle electron-hole complexes in two-dimensional electron systems. *Physical Review B*, **2018**, 98,	3.3	10
59	Spin transport in the bulk of two-dimensional Hall insulator. *Applied Physics Letters*, **2019**, 114, 062403	3.4	9
58	Sensing individual terahertz photons. *Nanotechnology*, **2010**, 21, 165203	3.4	9
57	. *Physics-Uspekhi*, **2006**, 49, 353	2.8	9
56	Modification of the intersubband excitation spectrum in a two-dimensional electron system under a perpendicular magnetic field. *Physical Review Letters*, **2001**, 86, 1837-40	7.4	9
55	Cyclotron spin-flip excitations in a nu = 1/3 quantum Hall ferromagnet. *Physical Review Letters*, **2009**, 102, 206802	7.4	8

54	Ion beam etching of GaAs: Influence of etching parameters on the degree of radiation damage. *Applied Physics Letters*, **1997**, 70, 2297-2299	3.4	8
53	Symmetry driven plasmon transformations in a bilayer electron system. *Physical Review B*, **2004**, 70,	3.3	8
52	Phonon spectra of substitutional carbon in Si1−xGex alloys. *Physical Review B*, **1999**, 59, 15753-15759	3.3	8
51	Excitons in Near Surface Quantum Wells: Local Probe of Semiconductor/Vacuum Surface. *Physica Status Solidi A*, **1997**, 164, 179-182		7
50	Investigation of spin stiffness in spin-depolarized states of two-dimensional electron systems with time-resolved Kerr rotation. *Scientific Reports*, **2020**, 10, 2270	4.9	7
49	Pseudomomentum of a dipole in a two-dimensional system. *Physical Review B*, **2002**, 66,	3.3	6
48	Localization of excitons in thermally annealed In0.14Ga0.86As/GaAs quantum wells studied by time-integrated four-wave mixing. *Physical Review B*, **1998**, 57, 7196-7202	3.3	6
47	Coherence-decoherence transition in a spin-magnetoexcitonic ensemble in a quantum Hall system. *Physical Review B*, **2019**, 100,	3.3	5
46	Rayleigh scattering of light by two-dimensional electrons in a high magnetic field. *JETP Letters*, **2014**, 98, 778-781	1.2	5
45	Effect of interparticle interactions on radiative lifetime of photoexcited electron-hole system in GaAs quantum wells. *Journal of Experimental and Theoretical Physics*, **1997**, 85, 195-199	1	5
44	Dispersion properties of plasma excitations in tunnel-coupled bilayer electron systems. *JETP Letters*, **2006**, 83, 256-260	1.2	5
43	Thermalization and Transport in Dense Ensembles of Triplet Magnetoexcitons. *JETP Letters*, **2019**, 110, 284-289	1.2	5
42	Spin dephasing of a two-dimensional electron gas in a GaAs quantum well near odd filling factors. *JETP Letters*, **2017**, 105, 238-240	1.2	4
41	Local incompressibility of fractional quantum Hall states at a filling factor of 3/2. *Physical Review Research*, **2020**, 2,	3.9	4
40	Magnetoexcitons in two-dimensional electronic systems. *Physics-Uspekhi*, **2015**, 58, 315-329	2.8	3
39	Resonance reflection of light from a ν = 1/3 Laughlin liquid. *JETP Letters*, **2015**, 100, 581-584	1.2	3
38	Interface D− complexes in a two-dimensional electron system. *JETP Letters*, **2010**, 92, 607-612	1.2	3
37	Cyclotron spin-flip mode in the extreme quantum limit. *JETP Letters*, **2007**, 85, 118-121	1.2	3

36	Time-resolved photoluminescence of a two-dimensional hole system in the extreme quantum limit. *Physical Review B*, **1995**, 51, 13876-13879	3.3	3
35	Intersubband magnetoplasmon as a detector of the spin polarization in two-dimensional electron systems. *JETP Letters*, **2017**, 105, 380-383	1.2	2
34	Pressure-induced reentrant transition in NbS3 phases: Combined Raman scattering and x-ray diffraction study. *Physical Review B*, **2019**, 99,	3.3	2
33	Detection of spin excitation transfer in a two-dimensional electron system via photoluminescence of multiparticle exciton complexes. *JETP Letters*, **2017**, 106, 682-685	1.2	2
32	Barrier D complexes in a high-mobility two-dimensional electron system. *JETP Letters*, **2008**, 87, 145-149	1.2	2
31	Acoustic magnetoplasma excitations in double electron layers. *JETP Letters*, **2002**, 76, 511-515	1.2	2
30	Elementary excitations in tunnel-coupled electron bilayers. *JETP Letters*, **2003**, 78, 654-658	1.2	2
29	Dipole excitations in a bilayer electron system in a parallel magnetic field. *Physical Review B*, **2005**, 71,	3.3	2
28	Cyclotron spin-wave in the 2D electron system. *JETP Letters*, **2001**, 74, 270-273	1.2	2
27	Interaction of above-Fermi-edge magnetoexciton states from different subbands in dense two-dimensional electron magnetoplasma. *Physical Review B*, **1995**, 51, 17654-17659	3.3	2
26	Resonant Photoluminescence of a Two-Dimensional Electron System upon the Formation of a Bulk 1/3 State of the Fractional Hall Effect. *JETP Letters*, **2020**, 112, 485-490	1.2	2
25	Equilibrium and Nonequilibrium Spin Polarization near Filling Factor 3/2. *JETP Letters*, **2018**, 108, 419-422	1.2	2
24	Intersubband collective excitations in a quasi-two-dimensional electron system in external magnetic field. *Journal of Experimental and Theoretical Physics*, **2002**, 95, 927-939	1	1
23	Oscillations of intersubband electron relaxation in a GaAs/AlxGa1As wide single quantum well near the single- to double-layer transition. *Physical Review B*, **1998**, 57, R12677-R12680	3.3	1
22	Laughlin anyon complexes with Bose properties. *Nature Communications*, **2021**, 12, 6477	17.4	1
21	Study of a Partly Spin-Polarized Two-Dimensional Electron System, According to Time-Resolved Magneto-Optical Kerr Rotation. *Bulletin of the Russian Academy of Sciences: Physics*, **2021**, 85, 146-150	0.4	1
20	Spin Transport over Huge Distances in a Magnetized 2D Electron System. *Annalen Der Physik*, **2019**, 531, 1800443	2.6	0
19	Resonant Light Reflection in the 1/3 Laughlin State. *JETP Letters*, **2021**, 114, 412-416	1.2	0

18	Coherence of a Magnetoexciton Condensate in a Quantum Hall Insulator. *JETP Letters*, **2021**, 114, 417-422	0
17	Long-lived magnetoexcitons in 2D-fermion system. *Low Temperature Physics*, **2017**, 43, 152-158	0.7
16	On the Choice of a Blocking Protein Agent when Creating an Immunochemical Assay with Surface-Enhanced Raman Spectroscopy. *Biophysics (Russian Federation)*, **2020**, 65, 12-17	0.7
15	Long-lived two-dimensional triplet magnetoexcitons in a Hall insulator. *Journal of Experimental and Theoretical Physics*, **2016**, 122, 525-530	1
14	Excited States of Magnetotrion. *JETP Letters*, **2018**, 107, 96-99	1.2
13	Long-Lived Magnetoexcitons and Two-Dimensional Magnetofermionic Condensate in GaAs/AlGaAs Heterostructure. *Semiconductors*, **2018**, 52, 575-578	0.7
12	2D magnetofermionic condensate in GaAs/AlGaAs heterostructures. *Low Temperature Physics*, **2017**, 43, 936-941	0.7
11	Magnetic excitons in near-surface quantum wells: Experiment and theory. *Physics of the Solid State*, **1998**, 40, 740-742	0.8
10	Collective excitations in double quantum wells with strong tunnel coupling. *JETP Letters*, **2004**, 79, 48-52	1.2
9	Intersubband excitations in single-and double-layer electron systems in a parallel magnetic field. *Journal of Experimental and Theoretical Physics*, **2005**, 101, 717-727	1
8	Coherent Spin Dynamics of a Two-Dimensional Electron Gas in the Mode of a Hall Ferromagnet. *Semiconductors*, **2020**, 54, 1166-1170	0.7
7	Barrier D complexes in a high-mobility two-dimensional electron system **2010**, 87, 145	
6	Locally Incompressible Spin State of the Fractional Quantum Hall Effect when v = 3/2. *Bulletin of the Russian Academy of Sciences: Physics*, **2021**, 85, 151-153	0.4
5	Resonant Photoluminescence under Conditions of the Fractional Quantum Hall Effect. *Bulletin of the Russian Academy of Sciences: Physics*, **2021**, 85, 174-175	0.4
4	Thermalization of Triplet Magneto-Excitons and Spin Transport in a Hall Dielectric. *Bulletin of the Russian Academy of Sciences: Physics*, **2021**, 85, 141-145	0.4
3	Two-Dimensional Triplet Magnetoexcitons and a Magnetofermionic Condensate in the GaAs/AlGaAs Heterostructures. *Physics of the Solid State*, **2018**, 60, 1645-1652	0.8
2	Independent Confirmation of the Local Incompressibility of Fractional State = 3/2 in Time-Resolved Kerr Rotation Experiments. *Bulletin of the Russian Academy of Sciences: Physics*, **2022**, 86, 413-417	0.4
1	Nonequilibrium Laughlin Ensembles of Anyon Complexes. *Bulletin of the Russian Academy of Sciences: Physics*, **2022**, 86, 386-388	0.4