

# Yuriy Monarkha

## List of Publications by Year in descending order

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80  
papers

1,019  
citations

430874

18  
h-index

454955

30  
g-index

80  
all docs

80  
docs citations

80  
times ranked

257  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetooscillations of temperature and microwave absorption in a highly correlated 2D electron gas on liquid helium. <i>Low Temperature Physics</i> , 2021, 47, 269-281.	0.6	2
2	Intersubband Absorption in a Microwave-Excited Inhomogeneous 2D Electron Gas under Quantizing Magnetic Fields. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 073601.	1.6	1
3	Magnetoconductivity oscillations induced by intersubband excitation in a degenerate 2D electron gas. <i>Low Temperature Physics</i> , 2020, 46, 569-578.	0.6	2
4	Magneto-Oscillations and Anomalous Current States in a Photoexcited Electron Gas on Liquid Helium. <i>Journal of Low Temperature Physics</i> , 2019, 197, 208-249.	1.4	10
5	Circular-Polarization-Dependent Study of Microwave-Induced Conductivity Oscillations in a Two-Dimensional Electron Gas on Liquid Helium. <i>Physical Review Letters</i> , 2018, 120, 046802.	7.8	20
6	Channel electron bubbles in low-temperature helium gas. <i>Low Temperature Physics</i> , 2018, 44, 1077-1084.	0.6	1
7	Nonlinear dynamics of a two-dimensional Wigner solid on superfluid helium. <i>Low Temperature Physics</i> , 2018, 44, 286-293.	0.6	1
8	Subharmonic phonon-ripplon coupling in the 2D Wigner solid on superfluid helium. <i>Europhysics Letters</i> , 2017, 118, 67001.	2.0	3
9	Polarization dependence of microwave-induced magnetoconductivity oscillations in a two-dimensional electron gas on liquid helium. <i>Low Temperature Physics</i> , 2017, 43, 650-657.	0.6	3
10	Anomalous Quasiparticle Reflection from the Surface of a $^3\text{He}$ Density Domains of a photo-excited electron gas on liquid helium. <i>Low Temperature Physics</i> , 2016, 42, 441-445.	7.8	4
11	Photoconductivity Response at Cyclotron-Resonance Harmonics in a Nondegenerate Two-Dimensional Electron Gas on Liquid Helium. <i>Physical Review Letters</i> , 2015, 115, 256802.	0.6	11
12	Temperature bistability in a 2D electron system on liquid helium induced by Coulomb interaction under cyclotron-resonance excitation. <i>Low Temperature Physics</i> , 2015, 41, 508-513.	0.6	1
13	Cyclotron-resonance-induced negative dc conductivity in a two-dimensional electron system on liquid helium. <i>Physical Review B</i> , 2015, 91, .	3.2	3
14	Photon-assisted scattering and magnetoconductivity oscillations in a strongly correlated 2D electron system formed on the surface of liquid helium. <i>Low Temperature Physics</i> , 2014, 40, 482-487.	0.6	5
15	Effect of Coulomb Interaction on Microwave-Induced Magnetoconductivity Oscillations of Surface Electrons on Liquid Helium. <i>Physical Review Letters</i> , 2013, 111, 266802.	7.8	33
16	The fine structure of microwave-induced magneto-oscillations in photoconductivity of the two-dimensional electron system formed on a liquid-helium surface. <i>Low Temperature Physics</i> , 2013, 39, 828-836.	0.6	4
17	Population inversion and novel magnetoconductivity oscillations induced by resonant microwave irradiation in multisubband two-dimensional electron systems. <i>JETP Letters</i> , 2013, 98, 9-13.	1.4	1
18			

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19	Coulombic effects on magnetoconductivity oscillations induced by microwave excitation in multisubband two-dimensional electron systems. <i>Low Temperature Physics</i> , 2012, 38, 451-458.	0.6	21
20	Bistability and hysteresis of intersubband absorption in strongly interacting electrons on liquid helium. <i>Physical Review B</i> , 2012, 85, .	3.2	5
21	A two-dimensional Wigner crystal (Review Article). <i>Low Temperature Physics</i> , 2012, 38, 1067-1095.	0.6	50
22	Microwave-resonance-induced magnetooscillations and vanishing resistance states in multisubband two-dimensional electron systems. <i>Low Temperature Physics</i> , 2011, 37, 655-666.	0.6	23
23	Transport Properties of the Two-Dimensional Wigner Solid on Liquid Helium in the Presence of a High-Frequency Damaging Electric Field. <i>Journal of Low Temperature Physics</i> , 2011, 163, 148-163.	1.4	1
24	Microwave-induced magnetooscillations and absolute negative conductivity in a multisubband two-dimensional electron system on liquid helium. <i>Low Temperature Physics</i> , 2011, 37, 90-93.	0.6	16
25	Decay of excited surface electron states in liquid helium and related relaxation phenomena induced by short-wavelength ripples. <i>Low Temperature Physics</i> , 2010, 36, 565-575.	0.6	20
26	Resonant Correlation-Induced Optical Bistability in an Electron System on Liquid Helium. <i>Physical Review Letters</i> , 2009, 103, 096801.	7.8	25
27	Nonlinear Wigner solid transport over superfluid helium under ac conditions. <i>Low Temperature Physics</i> , 2009, 35, 356-364.	0.6	11
28	Nonlinear resonant microwave absorption in strongly correlated hot 2D electrons on a liquid helium surface. <i>Journal of Physics: Conference Series</i> , 2009, 150, 022046.	0.4	0
29	Nonlinear surface electron transport over liquid helium. <i>Low Temperature Physics</i> , 2009, 35, 757-765.	0.6	8
30	Microwave-Resonance Induced Change in Magneto-Resistivity: Hot Surface Electrons on Liquid <sup>3</sup> He. <i>Journal of Low Temperature Physics</i> , 2008, 150, 230-235.	1.4	2
31	Anomalous temperature dependence of microwave resonance-induced resistivity of surface-state electrons on liquid. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1668-1670.	2.7	0
32	Corrigendum to "Nonlinear transport of the Wigner solid on normal and superfluid <sup>3</sup> He surfaces" • <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1037.	4.0	0
33	Microwave-Absorption-Induced Heating of Surface State Electrons on Liquid <sup>3</sup> He. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 034705.	1.6	10
34	Confinement effects on decay rate of surface electron states over liquid helium. <i>Low Temperature Physics</i> , 2008, 34, 385-387.	0.6	4
35	Quasiparticle Scattering Model for Interpreting the Wigner Solid Resistivity on the Surface of Superfluid <sup>3</sup> He. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 111004.	1.6	4
36	Photoresonance and conductivity of surface electrons on liquid He <sup>3</sup> . <i>Low Temperature Physics</i> , 2008, 34, 377-384.	0.6	11

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37	Microwave absorption saturation and decay heating of surface electrons on liquid helium. <i>Low Temperature Physics</i> , 2007, 33, 718-720.	0.6	3
38	Microwave-Resonance-Induced Resistivity: Evidence of Ultrahot Surface-State Electrons on Liquid He <sup>3</sup> . <i>Physical Review Letters</i> , 2007, 98, 235302.	7.8	34
39	Mobility of Electrons at Liquid Helium Surface under Overheating. <i>Journal of Low Temperature Physics</i> , 2007, 148, 169-174.	1.4	5
40	Decay Rate of the Excited States of Surface Electrons over Liquid Helium. <i>Journal of Low Temperature Physics</i> , 2007, 148, 157-161.	1.4	10
41	Decay Heating and Microwave Resonance-Induced Resistivity of Surface Electrons on Liquid Helium. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 124702.	1.6	7
42	Decay rate of the excited surface electron states on liquid helium. <i>Low Temperature Physics</i> , 2006, 32, 970-972.	0.6	8
43	Transport Properties of Two-Dimensional Wigner Solid on Free Surface of Liquid <sup>3</sup> He- <sup>4</sup> He Mixtures. <i>Journal of the Physical Society of Japan</i> , 2006, 75, 044601.	1.6	6
44	Conductivity of a two-dimensional electronic crystal over <sup>3</sup> He- <sup>4</sup> He liquid solutions. <i>Low Temperature Physics</i> , 2005, 31, 1023-1026.	0.6	2
45	Nonlinear transport of the Wigner solid on normal and superfluid <sup>3</sup> He surfaces. <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 1544-1548.	4.0	0
46	Nonlinear Conductivity of the Two-dimensional Wigner Solid on the Free Surface of Normal and Superfluid <sup>3</sup> He. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 960-969.	1.6	12
47	Nonlinear Wigner Solid Transport on the Free Surface of Normal and Superfluid He <sup>3</sup> . <i>Physical Review Letters</i> , 2004, 93, 176805.	7.8	12
48	Magnetoresistance of nondegenerate quantum electron channels formed on the surface of superfluid helium. <i>Physical Review B</i> , 2004, 69, .	3.2	3
49	Two-Dimensional Coulomb Liquids and Solids. <i>Springer Series in Solid-state Sciences</i> , 2004, , .	0.3	172
50	Low-frequency conductivity of a two-dimensional Wigner solid coupled to surface excitations of liquid helium. <i>Low Temperature Physics</i> , 2003, 29, 682-690.	0.6	4
51	Detrapping aspects of ripplonic polarons on a liquid helium film. <i>Physical Review B</i> , 2002, 65, .	3.2	4
52	Channel magnetotransport of surface electrons on superfluid helium. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 12, 950-952.	2.7	2
53	Quantum magnetotransport in two-dimensional Coulomb liquids. <i>Physics Reports</i> , 2002, 370, 1-61.	25.6	17
54	High-Frequency Conductivity and Phonon Damping of a Two-Dimensional Wigner Solid on a Free Surface of Liquid <sup>3</sup> He. <i>Journal of the Physical Society of Japan</i> , 2001, 70, 1617-1626.	1.6	6

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55	Cyclotron resonance of a two-dimensional Wigner solid. <i>Low Temperature Physics</i> , 2001, 27, 463-467.	0.6	5
56	Fluctuational-field-induced narrowing of the quantum cyclotron resonance from two-dimensional electrons on the surface of superfluid helium. <i>Physica B: Condensed Matter</i> , 2000, 284-288, 1920-1921.	2.7	0
57	Coulomb effects on the quantum cyclotron resonance from a two-dimensional electron liquid with extremely narrow Landau levels. <i>Physical Review B</i> , 2000, 62, 2593-2604.	3.2	10
58	Coulomb Narrowing of the Quantum Cyclotron Resonance in a Nondegenerate Two-Dimensional Electron Liquid. <i>Physical Review Letters</i> , 1999, 82, 2772-2775.	7.8	17
59	Self-consistent approach to Coulombic effects on the quantum magnetotransport in a nondegenerate two-dimensional electron liquid. <i>Physical Review B</i> , 1999, 59, 14884-14887.	3.2	4
60	Tresset al.Reply:. <i>Physical Review Letters</i> , 1999, 82, 2005-2005.	7.8	5
61	Wigner solid dynamics on normal and superfluid $^3\text{He}$ . <i>Physica B: Condensed Matter</i> , 1998, 249-251, 636-639.	2.7	6
62	Nonlinear quantum magnetotransport in a strongly correlated two-dimensional electron liquid. <i>Physical Review B</i> , 1998, 58, 3762-3776.	3.2	5
63	Edge excitations of a two-dimensional electron solid in a magnetic field. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 1537-1545.	1.8	2
64	Inelastic Quantum Magnetotransport in a Highly Correlated Two-Dimensional Electron Liquid. <i>Physical Review Letters</i> , 1997, 78, 2445-2448.	7.8	27
65	Quantum magnetotransport in a highly correlated two-dimensional electron liquid on a superfluid helium surface. <i>Low Temperature Physics</i> , 1997, 23, 472-479.	0.6	1
66	Dynamic Properties of the Two-Dimensional Wigner Solid on the Surface of Normal and Superfluid $^3\text{He}$ . <i>Journal of the Physical Society of Japan</i> , 1997, 66, 3901-3907.	1.6	25
67	Observation of 2D Polarons and Magnetopolarons on Superfluid Helium Films. <i>Physical Review Letters</i> , 1996, 77, 2511-2513.	7.8	18
68	Nonlinear cold quantum magnetotransport in a nondegenerate two-dimensional electron gas. <i>Europhysics Letters</i> , 1996, 34, 611-616.	2.0	4
69	Quantization induced decrease of the Hall effect for a non-degenerate two-dimensional electron gas in high magnetic fields. <i>Physica B: Condensed Matter</i> , 1995, 211, 477-480.	2.7	1
70	Quantum transport of strongly correlated electrons on a liquid helium surface. <i>European Physical Journal B</i> , 1995, 98, 435-436.	1.5	0
71	Observation of Novel Edge Excitations of a Two-Dimensional Electron Liquid on Helium in a Magnetic Field. <i>Physical Review Letters</i> , 1995, 74, 1190-1193.	7.8	30
72	Quantum magnetotransport in a nondegenerate two-dimensional electron gas under extremely strong magnetic fields. <i>Physical Review B</i> , 1994, 50, 11570-11576.	3.2	27

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73	Helium-film-induced retrapping transition in the two-dimensional electron system above an uneven solid-hydrogen surface. <i>Physical Review B</i> , 1993, 47, 13812-13817.	3.2	24
74	Low-temperature features of quantum magnetoconductance of a two-dimensional electron gas on a liquid helium surface. <i>Surface Science</i> , 1992, 263, 668-670.	1.9	0
75	Energy relaxation between an electron crystal and liquid helium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 159, 277-278.	2.1	0
76	Kinetic properties of surface electrons over liquid helium under strong electron-electron interaction. <i>Journal of Low Temperature Physics</i> , 1990, 79, 323-339.	1.4	22
77	Surface phenomena in microstratified He <sup>3</sup> -He <sup>4</sup> solution. <i>Physica B: Physics of Condensed Matter &amp; C: Atomic, Molecular and Plasma Physics, Optics</i> , 1981, 107, 39-40.	0.9	0
78	Effective mass of surface electrons in helium under non-equilibrium conditions. <i>Solid State Communications</i> , 1981, 38, 611-614.	1.9	12
79	Cyclotron resonance for electrons in surface states on liquid helium. <i>Surface Science</i> , 1980, 98, 41-60.	1.9	2
80	On the interaction of surface electrons in liquid helium with oscillations of the vapor-liquid interface. <i>Journal of Low Temperature Physics</i> , 1974, 16, 193-208.	1.4	126