

Yuriy Monarkha

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2621963/publications.pdf>

Version: 2024-02-01

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	Two-Dimensional Coulomb Liquids and Solids. Springer Series in Solid-state Sciences, 2004, , .	0.3	172
2	On the interaction of surface electrons in liquid helium with oscillations of the vapor-liquid interface. Journal of Low Temperature Physics, 1974, 16, 193-208.	1.4	126
3	A two-dimensional Wigner crystal (Review Article). Low Temperature Physics, 2012, 38, 1067-1095.	0.6	50
4	Microwave-Resonance-Induced Resistivity: Evidence of Ultrahot Surface-State Electrons on Liquid He ³ . Physical Review Letters, 2007, 98, 235302.	7.8	34
5	Effect of Coulomb Interaction on Microwave-Induced Magnetoconductivity Oscillations of Surface Electrons on Liquid Helium. Physical Review Letters, 2013, 111, 266802.	7.8	33
6	Observation of Novel Edge Excitations of a Two-Dimensional Electron Liquid on Helium in a Magnetic Field. Physical Review Letters, 1995, 74, 1190-1193.	7.8	30
7	Quantum magnetotransport in a nondegenerate two-dimensional electron gas under extremely strong magnetic fields. Physical Review B, 1994, 50, 11570-11576.	3.2	27
8	Inelastic Quantum Magnetotransport in a Highly Correlated Two-Dimensional Electron Liquid. Physical Review Letters, 1997, 78, 2445-2448.	7.8	27
9	Dynamic Properties of the Two-Dimensional Wigner Solid on the Surface of Normal and Superfluid ³ He. Journal of the Physical Society of Japan, 1997, 66, 3901-3907.	1.6	25
10	Resonant Correlation-Induced Optical Bistability in an Electron System on Liquid Helium. Physical Review Letters, 2009, 103, 096801.	7.8	25
11	Helium-film-induced retrapping transition in the two-dimensional electron system above an uneven solid-hydrogen surface. Physical Review B, 1993, 47, 13812-13817.	3.2	24
12	Microwave-resonance-induced magnetooscillations and vanishing resistance states in multisubband two-dimensional electron systems. Low Temperature Physics, 2011, 37, 655-666.	0.6	23
13	Photoconductivity Response at Cyclotron-Resonance Harmonics in a Nondegenerate Two-Dimensional Electron Gas on Liquid Helium. Physical Review Letters, 2015, 115, 256802.	7.8	23
14	Kinetic properties of surface electrons over liquid helium under strong electron-electron interaction. Journal of Low Temperature Physics, 1990, 79, 323-339.	1.4	22
15	Coulombic effects on magnetoconductivity oscillations induced by microwave excitation in multisubband two-dimensional electron systems. Low Temperature Physics, 2012, 38, 451-458.	0.6	21
16	Decay of excited surface electron states in liquid helium and related relaxation phenomena induced by short-wavelength ripples. Low Temperature Physics, 2010, 36, 565-575.	0.6	20
17	Circular-Polarization-Dependent Study of Microwave-Induced Conductivity Oscillations in a Two-Dimensional Electron Gas on Liquid Helium. Physical Review Letters, 2018, 120, 046802.	7.8	20
18	Observation of 2D Polarons and Magnetopolarons on Superfluid Helium Films. Physical Review Letters, 1996, 77, 2511-2513.	7.8	18

#	ARTICLE	IF	CITATIONS
19	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
20	Quantum magnetotransport in two-dimensional Coulomb liquids. <i>Physics Reports</i> , 2002, 370, 1-61.	25.6	17
21	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
22	Effective mass of surface electrons in helium under non-equilibrium conditions. <i>Solid State Communications</i> , 1981, 38, 611-614.	1.9	12
23	Nonlinear Wigner Solid Transport on the Free Surface of Normal and Superfluid He3. <i>Physical Review Letters</i> , 2004, 93, 176805.	7.8	12
24	Nonlinear Conductivity of the Two-dimensional Wigner Solid on the Free Surface of Normal and Superfluid ³ He. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 960-969.	1.6	12
25	Photoresonance and conductivity of surface electrons on liquid He3. <i>Low Temperature Physics</i> , 2008, 34, 377-384.	0.6	11
26	Nonlinear Wigner solid transport over superfluid helium under ac conditions. <i>Low Temperature Physics</i> , 2009, 35, 356-364.	0.6	11
27	Density domains of a photo-excited electron gas on liquid helium. <i>Low Temperature Physics</i> , 2016, 42, 441-445.	0.6	11
28	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
29	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
30	Microwave-Absorption-Induced Heating of Surface State Electrons on Liquid ³ He. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 034705.	1.6	10
31	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
32	Decay rate of the excited surface electron states on liquid helium. <i>Low Temperature Physics</i> , 2006, 32, 970-972.	0.6	8
33	Nonlinear surface electron transport over liquid helium. <i>Low Temperature Physics</i> , 2009, 35, 757-765.	0.6	8
34	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
35	Wigner solid dynamics on normal and superfluid ³ He. <i>Physica B: Condensed Matter</i> , 1998, 249-251, 636-639.	2.7	6
36	High-Frequency Conductivity and Phonon Damping of a Two-Dimensional Wigner Solid on a Free Surface of Liquid ³ He. <i>Journal of the Physical Society of Japan</i> , 2001, 70, 1617-1626.	1.6	6

#	ARTICLE	IF	CITATIONS
37	Transport Properties of Two-Dimensional Wigner Solid on Free Surface of Liquid ^3He - ^4He Mixtures. Journal of the Physical Society of Japan, 2006, 75, 044601.	1.6	6
38	Nonlinear quantum magnetotransport in a strongly correlated two-dimensional electron liquid. Physical Review B, 1998, 58, 3762-3776.	3.2	5
39	Tresset al.Reply:. Physical Review Letters, 1999, 82, 2005-2005.	7.8	5
40	Cyclotron resonance of a two-dimensional Wigner solid. Low Temperature Physics, 2001, 27, 463-467.	0.6	5
41	Mobility of Electrons at Liquid Helium Surface under Overheating. Journal of Low Temperature Physics, 2007, 148, 169-174.	1.4	5
42	Bistability and hysteresis of intersubband absorption in strongly interacting electrons on liquid helium. Physical Review B, 2012, 85, .	3.2	5
43	Photon-assisted scattering and magnetoconductivity oscillations in a strongly correlated 2D electron system formed on the surface of liquid helium. Low Temperature Physics, 2014, 40, 482-487.	0.6	5
44	Nonlinear cold quantum magnetotransport in a nondegenerate two-dimensional electron gas. Europhysics Letters, 1996, 34, 611-616.	2.0	4
45	Self-consistent approach to Coulombic effects on the quantum magnetotransport in a nondegenerate two-dimensional electron liquid. Physical Review B, 1999, 59, 14884-14887.	3.2	4
46	Detrapping aspects of ripplonic polarons on a liquid helium film. Physical Review B, 2002, 65, .	3.2	4
47	Low-frequency conductivity of a two-dimensional Wigner solid coupled to surface excitations of liquid helium. Low Temperature Physics, 2003, 29, 682-690.	0.6	4
48	Confinement effects on decay rate of surface electron states over liquid helium. Low Temperature Physics, 2008, 34, 385-387.	0.6	4
49	Quasiparticle Scattering Model for Interpreting the Wigner Solid Resistivity on the Surface of Superfluid ^3He . Journal of the Physical Society of Japan, 2008, 77, 111004.	1.6	4
50	The fine structure of microwave-induced magneto-oscillations in photoconductivity of the two-dimensional electron system formed on a liquid-helium surface. Low Temperature Physics, 2013, 39, 828-836.	0.6	4
51	Quasiparticle Reflection from the Surface of a ^3He	7.8	4
52	Magnetoresistance of nondegenerate quantum electron channels formed on the surface of superfluid helium. Physical Review B, 2004, 69, .	3.2	3
53	Microwave absorption saturation and decay heating of surface electrons on liquid helium. Low Temperature Physics, 2007, 33, 718-720.	0.6	3
54	Cyclotron-resonance-induced negative dc conductivity in a two-dimensional electron system on liquid helium. Physical Review B, 2015, 91, .	3.2	3

#	ARTICLE	IF	CITATIONS
55	Subharmonic phonon-ripplon coupling in the 2D Wigner solid on superfluid helium. Europhysics Letters, 2017, 118, 67001.	2.0	3
56	Polarization dependence of microwave-induced magnetoconductivity oscillations in a two-dimensional electron gas on liquid helium. Low Temperature Physics, 2017, 43, 650-657.	0.6	3
57	Cyclotron resonance for electrons in surface states on liquid helium. Surface Science, 1980, 98, 41-60.	1.9	2
58	Edge excitations of a two-dimensional electron solid in a magnetic field. Journal of Physics Condensed Matter, 1997, 9, 1537-1545.	1.8	2
59	Channel magnetotransport of surface electrons on superfluid helium. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 950-952.	2.7	2
60	Conductivity of a two-dimensional electronic crystal over ^3He - ^4He liquid solutions. Low Temperature Physics, 2005, 31, 1023-1026.	0.6	2
61	Microwave-Resonance Induced Change in Magneto-Resistivity: Hot Surface Electrons on Liquid ^3He . Journal of Low Temperature Physics, 2008, 150, 230-235.	1.4	2
62	Magnetoconductivity oscillations induced by intersubband excitation in a degenerate 2D electron gas. Low Temperature Physics, 2020, 46, 569-578.	0.6	2
63	Magnetooscillations of temperature and microwave absorption in a highly correlated 2D electron gas on liquid helium. Low Temperature Physics, 2021, 47, 269-281.	0.6	2
64	Quantization induced decrease of the Hall effect for a non-degenerate two-dimensional electron gas in high magnetic fields. Physica B: Condensed Matter, 1995, 211, 477-480.	2.7	1
65	Quantum magnetotransport in a highly correlated two-dimensional electron liquid on a superfluid helium surface. Low Temperature Physics, 1997, 23, 472-479.	0.6	1
66	Transport Properties of the Two-Dimensional Wigner Solid on Liquid Helium in the Presence of High-Frequency Damaging Electric Field. Journal of Low Temperature Physics, 2011, 163, 148-163.	1.4	1
67	Population inversion and novel magnetoconductivity oscillations induced by resonant microwave irradiation in multisubband two-dimensional electron systems. JETP Letters, 2013, 98, 9-13.	1.4	1
68	Temperature bistability in a 2D electron system on liquid helium induced by Coulomb interaction under cyclotron-resonance excitation. Low Temperature Physics, 2015, 41, 508-513.	0.6	1
69	Channel electron bubbles in low-temperature helium gas. Low Temperature Physics, 2018, 44, 1077-1084.	0.6	1
70	Nonlinear dynamics of a two-dimensional Wigner solid on superfluid helium. Low Temperature Physics, 2018, 44, 286-293.	0.6	1
71	Intersubband Absorption in a Microwave-Excited Inhomogeneous 2D Electron Gas under Quantizing Magnetic Fields. Journal of the Physical Society of Japan, 2021, 90, 073601.	1.6	1
72	Surface phenomena in microstratified ^3He - ^4He solution. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1981, 107, 39-40.	0.9	0

#	ARTICLE	IF	CITATIONS
73	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
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	Quantum transport of strongly correlated electrons on a liquid helium surface. <i>European Physical Journal B</i> , 1995, 98, 435-436.	1.5	0
76	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
77	Nonlinear transport of the Wigner solid on normal and superfluid ³ He surfaces. <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 1544-1548.	4.0	0
78	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
79	Corrigendum to "Nonlinear transport of the Wigner solid on normal and superfluid ³ He surfaces". <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1037.	4.0	0
80	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