

Ivan A Dmitriev

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7836955/publications.pdf>

Version: 2024-02-01

53
papers

1,585
citations

430754

18
h-index

289141

40
g-index

53
all docs

53
docs citations

53
times ranked

563
citing authors

#	ARTICLE	IF	CITATIONS
1	Theory of microwave-induced oscillations in the magnetoconductivity of a two-dimensional electron gas. <i>Physical Review B</i> , 2005, 71, .	1.1	295
2	Nonequilibrium phenomena in high Landau levels. <i>Reviews of Modern Physics</i> , 2012, 84, 1709-1763.	16.4	184
3	Cyclotron-Resonance Harmonics in the ac Response of a 2D Electron Gas with Smooth Disorder. <i>Physical Review Letters</i> , 2003, 91, 226802.	2.9	159
4	Microwave photoconductivity of a two-dimensional electron gas: Mechanisms and their interplay at high radiation power. <i>Physical Review B</i> , 2007, 75, .	1.1	81
5	Mechanisms of the microwave photoconductivity in two-dimensional electron systems with mixed disorder. <i>Physical Review B</i> , 2009, 80, .	1.1	80
6	Anomalous Hall effect with massive Dirac fermions. <i>Europhysics Letters</i> , 2015, 111, 37004.	0.7	69
7	Oscillatory ac conductivity and photoconductivity of a two-dimensional electron gas: Quasiclassical transport beyond the Boltzmann equation. <i>Physical Review B</i> , 2004, 70, .	1.1	58
8	Theory of Fractional Microwave-Induced Resistance Oscillations. <i>Physical Review Letters</i> , 2007, 99, 206805.	2.9	46
9	Quantum oscillations in the microwave magnetoabsorption of a two-dimensional electron gas. <i>Physical Review B</i> , 2010, 81, .	1.1	43
10	Anomalous Hall Effect in a 2D Rashba Ferromagnet. <i>Physical Review Letters</i> , 2016, 117, 046601.	2.9	39
11	Analog of microwave-induced resistance oscillations induced in GaAs heterostructures by terahertz radiation. <i>Physical Review B</i> , 2016, 94, .	1.1	38
12	Fractional features in radiation-induced oscillations of the magnetoresistance of two-dimensional electron systems. <i>JETP Letters</i> , 2007, 85, 86-91.	0.4	33
13	Compressibility of a two-dimensional electron gas under microwave radiation. <i>Physical Review B</i> , 2004, 70, .	1.1	31
14	Theory of microwave-induced photocurrent and photovoltage magneto-oscillations in a spatially nonuniform two-dimensional electron gas. <i>Physical Review B</i> , 2009, 80, .	1.1	31
15	Observation of microwave induced resistance and photovoltage oscillations in MgZnO/ZnO heterostructures. <i>Physical Review B</i> , 2016, 93, .	1.1	30
16	Electron localization and bloch oscillations in quantum-dot superlattices under a constant electric field. <i>Semiconductors</i> , 2001, 35, 212-219.	0.2	26
17	Quantum cascade lasers based on quantum dot superlattice. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005, 202, 987-991.	0.8	26
18	Sensitivity of the anomalous Hall effect to disorder correlations. <i>Physical Review B</i> , 2017, 96, .	1.1	26

#	ARTICLE	IF	CITATIONS
19	Phonon-induced resistance oscillations of two-dimensional electron systems drifting with supersonic velocities. <i>Physical Review B</i> , 2010, 82, .	1.1	19
20	Theory of the oscillatory photoconductivity of a two-dimensional electron system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 25, 205-211.	1.3	17
21	Magnetotransport of electrons in quantum Hall systems. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 239-259.	0.7	16
22	Quantum magneto-oscillations in the ac conductivity of disordered graphene. <i>Physical Review B</i> , 2013, 87, .	1.1	16
23	Cyclotron resonance overtones and near-field magnetoabsorption via terahertz Bernstein modes in graphene. <i>Nature Physics</i> , 2022, 18, 462-467.	6.5	16
24	Damping of bloch oscillations in quantum dot superlattices: A general approach. <i>Semiconductors</i> , 2002, 36, 1364-1374.	0.2	15
25	Negative conductivity and anomalous screening in two-dimensional electron systems subjected to microwave radiation. <i>Physical Review B</i> , 2011, 84, .	1.1	13
26	Fine structure of high-power microwave-induced resistance oscillations. <i>Physical Review B</i> , 2017, 95, .	1.1	13
27	Emergence of Domains and Nonlinear Transport in the Zero-Resistance State. <i>Physical Review Letters</i> , 2013, 111, 206801.	2.9	12
28	Relaxation of optically excited carriers in graphene: Anomalous diffusion and Lévy flights. <i>Physical Review B</i> , 2014, 89, .	1.1	12
29	Spin-Selective Electron Quantum Transport in Nonmagnetic MgZnO . <i>Physical Review Letters</i> , 2015, 115, 197601.	2.9	12
30	Observation of Terahertz-Induced Magnetooscillations in Graphene. <i>Nano Letters</i> , 2020, 20, 5943-5950.	4.5	12
31	Quantum dot cascade laser: Arguments in favor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2007-2009.	1.3	11
32	Strong Interminivalley Scattering in Twisted Bilayer Graphene Revealed by High-Temperature Magneto-Oscillations. <i>Physical Review Letters</i> , 2021, 127, 056802.	2.9	11
33	Magnetoresistance oscillations induced by high-intensity terahertz radiation. <i>Physical Review B</i> , 2017, 96, .	1.1	10
34	Bloch oscillations in quantum dot superlattices. <i>Physics-Uspekhi</i> , 2003, 46, 745-751.	0.8	8
35	Evidence for non-Markovian electron dynamics in the microwave absorption of a two-dimensional electron system. <i>Physical Review B</i> , 2017, 96, .	1.1	8
36	Sign-alternating photoconductivity and magnetoresistance oscillations induced by terahertz radiation in HgTe quantum wells. <i>Physical Review B</i> , 2018, 98, .	1.1	8

#	ARTICLE	IF	CITATIONS
37	Terahertz Magnetospectroscopy of Cyclotron Resonances from Topological Surface States in Thick Films of Cd x Hg 1â ^x x Te. Physica Status Solidi (B): Basic Research, 2021, 258, 2000023.	0.7	8
38	Nonequilibrium magnetooscillations in spatially non-uniform quantum Hall systems. Journal of Physics: Conference Series, 2011, 334, 012015.	0.3	6
39	Hall field-induced resistance oscillations in a tunable-density GaAs quantum well. Physical Review B, 2017, 96, .	1.1	6
40	Terahertz photoresistivity of a high-mobility 3D topological insulator based on a strained HgTe film. Applied Physics Letters, 2020, 117, 201103.	1.5	6
41	Damping of bloch oscillations in one-, two-, and three-dimensional quantum-dot superlattices. Semiconductors, 2002, 36, 1375-1384.	0.2	5
42	Photogalvanic effects originating from the violation of the Einstein relation in a 2D electron gas in high Landau levels. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1159-1162.	1.3	4
43	High harmonics of the cyclotron resonance in microwave transmission of a high-mobility two-dimensional electron system. Physical Review Research, 2021, 3, .	1.3	4
44	Cyclotron-resonance-induced photogalvanic effect in surface states of 200-nm-thick strained HgTe films. Physical Review Materials, 2019, 3, .	0.9	4
45	Publisher's Note: Quantum oscillations in the microwave magnetoabsorption of a two-dimensional electron gas [Phys. Rev. B81, 201302(R) (2010)]. Physical Review B, 2010, 81, .	1.1	3
46	Anharmonicity-assisted multiphonon transitions between distant levels in semiconductor quantum dots. Physical Review B, 2014, 90, .	1.1	3
47	Self-oscillations and noise-induced flips of spontaneous electric field in microwave-induced zero resistance state. Europhysics Letters, 2019, 126, 57004.	0.7	3
48	Microwave response of interacting oxide two-dimensional electron systems. Physical Review B, 2020, 102, .	1.1	3
49	Acoustoelectric Study of Microwave-Induced Current Domains. Physical Review Letters, 2020, 124, 117601.	2.9	3
50	Fractional microwave-induced resistance oscillations. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1332-1334.	1.3	2
51	QUANTUM DOT SUPERLATTICES IN A CONSTANT ELECTRIC FIELD: LOCALIZATION AND BLOCH OSCILLATIONS. International Journal of High Speed Electronics and Systems, 2002, 12, 583-592.	0.3	1
52	QUANTUM DOT SUPERLATTICES IN A CONSTANT ELECTRIC FIELD: LOCALIZATION AND BLOCH OSCILLATIONS. , 2003, , .		0
53	INTEGER AND FRACTIONAL MAGNETOOSCILLATIONS IN IRRADIATED QUANTUM HALL SYSTEMS. International Journal of Modern Physics B, 2009, 23, 2678-2683.	1.0	0