Leonid P Rokhinson

List of Publications by Year
in descending order

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26 papers	2,615 citations	471509 17 h-index	610901 24 g-index
26 all docs	26 docs citations	26 times ranked	3456 citing authors

#	Article	IF	Citations
1	The fractional a.c. Josephson effect in a semiconductorâ€“superconductor nanowire as a signature of Majorana particles. Nature Physics, 2012, 8, 795-799.	16.7	1,022
2	Evidence for reversible control of magnetization in a ferromagnetic material by means of spinâ€“orbit magnetic field. Nature Physics, 2009, 5, 656-659.	16.7	442
3	Atomic force microscope local oxidation nanolithography of graphene. Applied Physics Letters, 2008, 93, .	3.3	180
4	Spin Separation in Cyclotron Motion. Physical Review Letters, 2004, 93, 146601.	7.8	132
5	Spontaneous Spin Polarization in Quantum Point Contacts. Physical Review Letters, 2006, 96, 156602.	7.8	127
6	Induced superconductivity in high-mobility two-dimensional electron gas in gallium arsenide heterostructures. Nature Communications, 2015, 6, 7426.	12.8	97
7	GaMnAs-based hybrid multiferroic memory device. Applied Physics Letters, 2008, 92, .	3.3	96
8	Magnetic field-induced helical mode and topological transitions in a topological insulator nanoribbon. Nature Nanotechnology, 2016, 11, 345-351.	31.5	93
9	Magnetoconductance oscillations in graphene antidot arrays. Applied Physics Letters, 2008, 93, .	3.3	91
10	Carrier localization in perovskite nickelates from oxygen vacancies. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21992-21997.	7.1	71
11	Gate Tunable Relativistic Mass and Berry's phase in Topological Insulator Nanoribbon Field Effect Devices. Scientific Reports, 2015, 5, 8452.	3.3	48
12	Contrasting energy scales of reentrant integer quantum Hall states. Physical Review B, 2012, 86, .	3.2	42
13	Anomalous Low-Temperature Enhancement of Supercurrent in Topological-Insulator Nanoribbon Josephson Junctions: Evidence for Low-Energy Andreev Bound States. Physical Review Letters, 2019, 122, 047003.	7.8	30
14	Gate-tunable supercurrent and multiple Andreev reflections in a superconductor-topological insulator nanoribbon-superconductor hybrid device. Applied Physics Letters, 2018, 112, .	3.3	21
15	Formation of helical domain walls in the fractional quantum Hall regime as a step toward realization of high-order non-Abelian excitations. Physical Review B, 2018, 97, .	3.2	21
16	Highly skewed currentâ€“phase relation in superconductorâ€“topological insulatorâ€“superconductor Josephson junctions. Npj Quantum Materials, 2020, 5, .	5.2	20
17	Extremely high electron mobility in isotopically-enriched 28Si two-dimensional electron gases grown by chemical vapor deposition. Applied Physics Letters, 2013, 103, .	3.3	19
18	Topological response of the anomalous Hall effect in MnBi2Te4 due to magnetic canting. Npj Quantum Materials, 2022, 7, .	5.2	15

#	Article	IF	Citations
19	Mesoscopic Transport in Electrostatically Defined Spin-Full Channels in Quantum Hall Ferromagnets. Physical Review Letters, 2017, 119, 046803.	7.8	13
20	Electrostatic control of quantum Hall ferromagnetic transition: A step toward reconfigurable network of helical channels. Physical Review B, 2016, 94, .	3.2	10
21	Observation of Coexisting Weak Localization and Superconducting Fluctuations in Strained Sn‹sub›1â€“‹i›x‹/i›‹/sub›In‹sub›‹i›x‹/i›‹/sub›Te Thin Films. Nano Letters, 2022, 22, 792-800.	9.1	10
22	Impurity-generated non-Abelions. Physical Review B, 2018, 97, .	3.2	8
23	Transport in helical Luttinger liquids in the fractional quantum Hall regime. Nature Communications, 2021, 12, 5312.	12.8	5
24	Epitaxial growth and magnetic characterization of EuSe thin films with various crystalline orientations. Journal of Applied Physics, 2022, 131, 055302.	2.5	2
25	Spontaneous spin polarization in quantum point contacts. AIP Conference Proceedings, 2007, , .	0.4	0
26	Electrical and superconducting transport in topological insulator nanoribbons. Frontiers of Nanoscience, 2021, 20, 241-264.	0.6	0