

Leonid P Rokhinson

List of Publications by Year in descending order

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26
papers

2,615
citations

471509

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docs citations

26
times ranked

3456
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of Coexisting Weak Localization and Superconducting Fluctuations in Strained Sn _{1-x} In _x Te Thin Films. <i>Nano Letters</i> , 2022, 22, 792-800.	9.1	10
2	Epitaxial growth and magnetic characterization of EuSe thin films with various crystalline orientations. <i>Journal of Applied Physics</i> , 2022, 131, 055302.	2.5	2
3	Topological response of the anomalous Hall effect in MnBi ₂ Te ₄ due to magnetic canting. <i>Npj Quantum Materials</i> , 2022, 7, .	5.2	15
4	Transport in helical Luttinger liquids in the fractional quantum Hall regime. <i>Nature Communications</i> , 2021, 12, 5312.	12.8	5
5	Electrical and superconducting transport in topological insulator nanoribbons. <i>Frontiers of Nanoscience</i> , 2021, 20, 241-264.	0.6	0
6	Highly skewed current-phase relation in superconductor-topological insulator-superconductor Josephson junctions. <i>Npj Quantum Materials</i> , 2020, 5, .	5.2	20
7	Carrier localization in perovskite nickelates from oxygen vacancies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21992-21997.	7.1	71
8	Anomalous Low-Temperature Enhancement of Supercurrent in Topological-Insulator Nanoribbon Josephson Junctions: Evidence for Low-Energy Andreev Bound States. <i>Physical Review Letters</i> , 2019, 122, 047003.	7.8	30
9	Gate-tunable supercurrent and multiple Andreev reflections in a superconductor-topological insulator nanoribbon-superconductor hybrid device. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	21
10	Formation of helical domain walls in the fractional quantum Hall regime as a step toward realization of high-order non-Abelian excitations. <i>Physical Review B</i> , 2018, 97, .	3.2	21
11	Impurity-generated non-Abelions. <i>Physical Review B</i> , 2018, 97, .	3.2	8
12	Mesoscopic Transport in Electrostatically Defined Spin-Full Channels in Quantum Hall Ferromagnets. <i>Physical Review Letters</i> , 2017, 119, 046803.	7.8	13
13	Electrostatic control of quantum Hall ferromagnetic transition: A step toward reconfigurable network of helical channels. <i>Physical Review B</i> , 2016, 94, .	3.2	10
14	Magnetic field-induced helical mode and topological transitions in a topological insulator nanoribbon. <i>Nature Nanotechnology</i> , 2016, 11, 345-351.	31.5	93
15	Gate Tunable Relativistic Mass and Berry's phase in Topological Insulator Nanoribbon Field Effect Devices. <i>Scientific Reports</i> , 2015, 5, 8452.	3.3	48
16	Induced superconductivity in high-mobility two-dimensional electron gas in gallium arsenide heterostructures. <i>Nature Communications</i> , 2015, 6, 7426.	12.8	97
17	Extremely high electron mobility in isotopically-enriched ²⁸ Si two-dimensional electron gases grown by chemical vapor deposition. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	19
18	Contrasting energy scales of reentrant integer quantum Hall states. <i>Physical Review B</i> , 2012, 86, .	3.2	42

#	ARTICLE	IF	CITATIONS
19	The fractional a.c. Josephson effect in a semiconductor-superconductor nanowire as a signature of Majorana particles. Nature Physics, 2012, 8, 795-799.	16.7	1,022
20	Evidence for reversible control of magnetization in a ferromagnetic material by means of spin-orbit magnetic field. Nature Physics, 2009, 5, 656-659.	16.7	442
21	Magnetoconductance oscillations in graphene antidot arrays. Applied Physics Letters, 2008, 93, .	3.3	91
22	Atomic force microscope local oxidation nanolithography of graphene. Applied Physics Letters, 2008, 93, .	3.3	180
23	GaMnAs-based hybrid multiferroic memory device. Applied Physics Letters, 2008, 92, .	3.3	96
24	Spontaneous spin polarization in quantum point contacts. AIP Conference Proceedings, 2007, , .	0.4	0
25	Spontaneous Spin Polarization in Quantum Point Contacts. Physical Review Letters, 2006, 96, 156602.	7.8	127
26	Spin Separation in Cyclotron Motion. Physical Review Letters, 2004, 93, 146601.	7.8	132