

# Vladimir A Sablikov

## List of Publications by Year in descending order

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31  
papers

240  
citations

1040056

9  
h-index

996975

15  
g-index

31  
all docs

31  
docs citations

31  
times ranked

148  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evanescent states in two-dimensional electron systems with spin-orbit interaction and spin-dependent transmission through a barrier. <i>Physical Review B</i> , 2007, 76, .	3.2	41
2	Spin-orbit-driven electron pairing in two dimensions. <i>Physical Review B</i> , 2018, 98, .	3.2	19
3	Equilibrium edge spin currents in two-dimensional electron systems with spin-orbit interaction. <i>Physical Review B</i> , 2008, 78, .	3.2	18
4	Helical bound states in the continuum of the edge states in two dimensional topological insulators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 1775-1779.	2.1	17
5	Electronic states induced by nonmagnetic defects in two-dimensional topological insulators. <i>Physical Review B</i> , 2015, 91, .	3.2	16
6	Two-body problem for two-dimensional electrons in the Bernervig-Hughes-Zhang model. <i>Physical Review B</i> , 2017, 95, .	3.2	15
7	Image-potential-induced spin-orbit interaction in one-dimensional electron systems. <i>Physical Review B</i> , 2017, 95, .	3.2	13
8	Non-magnetic defects in the bulk of two-dimensional topological insulators. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 853-856.	2.4	10
9	Van Hove scenario of anisotropic transport in a two-dimensional spin-orbit coupled electron gas in an in-plane magnetic field. <i>Physical Review B</i> , 2019, 99, .	3.2	9
10	Spin-current quantization in a quantum point contact with spin-orbit interaction. <i>Physical Review B</i> , 2010, 82, .	3.2	8
11	Pair spin-orbit interaction in low-dimensional electron systems. <i>European Physical Journal: Special Topics</i> , 2020, 229, 503-525.	2.6	8
12	Spin current in an electron waveguide tunnel-coupled to a topological insulator. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 405301.	1.8	7
13	The Spin-orbit Mechanism of Electron Pairing in Quantum Wires. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800209.	2.4	7
14	Spin polarization of electron current through a potential barrier in two-dimensional structures with spin-orbit interaction. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 125801.	1.8	6
15	Singlet-triplet transition in double quantum dots in two-dimensional topological insulators. <i>Physical Review B</i> , 2018, 98, .	3.2	5
16	Coulomb pairing of electrons in thin films with strong spin-orbit interaction. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 108, 187-190.	2.7	5
17	Optical transitions in two-dimensional topological insulators with point defects. <i>Physica B: Condensed Matter</i> , 2016, 503, 1-6.	2.7	4
18	Dynamics of One-Dimensional Electrons With Broken Spin-Charge Separation. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1700313.	2.4	4

#	ARTICLE	IF	CITATIONS
19	Conductance suppression by nonmagnetic point defects in helical edge channels of two-dimensional topological insulators. <i>Physical Review B</i> , 2021, 103, .	3.2	4
20	Electron correlations due to pair spin-orbit interaction in 2D electron systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 143, 115328.	2.7	4
21	Spin currents in a normal two-dimensional electron gas in contact with a spin-orbit interaction region. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 375801.	1.8	3
22	Long-range perturbation of helical edge states by nonmagnetic defects in two-dimensional topological insulators. <i>Physical Review B</i> , 2020, 102, .	3.2	3
23	Bound Electron Pairs Formed by the Spin-Orbit Interaction in 2D Gated Structures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900600.	2.4	3
24	Electron-electron interaction effect on the singlet-triplet transitions in one-dimensional quantum dots. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 175601.	1.8	2
25	Radiative Decay of Bound Electron Pairs in Two-Dimensional Topological Insulators. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900358.	2.4	2
26	Radiative Decay of Bound Electron Pairs into Unbound Interacting Electrons in 2D Materials with Two-Band Spectrum. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 2000299.	1.5	2
27	Effective mass of bound electron pairs in two-dimensional materials with a gapped band spectrum. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022, 429, 127956.	2.1	2
28	Interface states in two-dimensional electron systems with spin-orbital interaction. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 395601.	1.8	1
29	Metastable and spin-polarized states in electron systems with localized electron-electron interaction. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 59, 75-82.	2.7	1
30	Probe-assisted spin manipulation in one-dimensional quantum dots. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 366-370.	2.4	1
31	The Coulomb Impurity in 2D Materials with Strong Spin-Orbit Interaction. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000501.	1.5	0