Sergey Slizovskiy

List of Publications by Year in descending order

31 papers	758 citations	623734 14 h-index	501196 28 g-index
32 all docs	32 docs citations	32 times ranked	1068 citing authors

#	Article	IF	Citations
1	Transport Through a Network of Topological Channels in Twisted Bilayer Graphene. Nano Letters, 2018, 18, 6725-6730.	9.1	109
2	Quantum weights of dyons and of instantons with nontrivial holonomy. Physical Review D, 2004, 70, .	4.7	98
3	Electrostatically Induced Quantum Point Contacts in Bilayer Graphene. Nano Letters, 2018, 18, 553-559.	9.1	83
4	Electronic phase separation in multilayer rhombohedral graphite. Nature, 2020, 584, 210-214.	27.8	81
5	Magnetoresistance of vertical Co-graphene-NiFe junctions controlled by charge transfer and proximity-induced spin splitting in graphene. 2D Materials, 2017, 4, 031004.	4.4	73
6	Control of electron-electron interaction in graphene by proximity screening. Nature Communications, 2020, 11, 2339.	12.8	46
7	Dimensional reduction, quantum Hall effect and layer parity in graphite films. Nature Physics, 2019, 15, 437-442.	16.7	39
8	Out-of-equilibrium criticalities in graphene superlattices. Science, 2022, 375, 430-433.	12.6	34
9	Out-of-Plane Dielectric Susceptibility of Graphene in Twistronic and Bernal Bilayers. Nano Letters, 2021, 21, 6678-6683.	9.1	24
10	Films of rhombohedral graphite as two-dimensional topological semimetals. Communications Physics, 2019, 2, .	5.3	22
11	Nonlinear magnetization of graphene. Physical Review B, 2012, 86, .	3.2	17
12	Edge photocurrent driven by terahertz electric field in bilayer graphene. Physical Review B, 2020, 102, .	3.2	16
13	Magnetic Fluctuations and Specific Heat in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Na</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>a Lifshitz Transition. Physical Review Letters, 2015, 114, 066403.	7.8	15
14	Magnetoresistance in Co-hBN-NiFe Tunnel Junctions Enhanced by Resonant Tunneling through Single Defects in Ultrathin hBN Barriers. Nano Letters, 2018, 18, 6954-6960.	9.1	15
15	Control of Giant Topological Magnetic Moment and Valley Splitting in Trilayer Graphene. Physical Review Letters, 2021, 127, 136402.	7.8	14
16	Spectroscopic Signatures of Electronic Excitations in Raman Scattering in Thin Films of Rhombohedral Graphite. Nano Letters, 2019, 19, 6152-6156.	9.1	11
17	Edge photocurrent in bilayer graphene due to inter-Landau-level transitions. Physical Review B, 2021, 103, .	3.2	11
18	Cooling of chiral heat transport in the quantum Hall effect regime of graphene. Physical Review B, 2017, 96, .	3.2	8

#	Article	IF	Citations
19	Effect of paramagnetic fluctuations on a Fermi-surface topological transition in two dimensions. Physical Review B, 2014, 90, .	3.2	7
20	Fermionic determinant forSU(N)caloron with nontrivial holonomy. Physical Review D, 2006, 73, .	4.7	5
21	Determinant of the SU(N) caloron with nontrivial holonomy. Physical Review D, 2007, 76, .	4.7	5
22	Bound states of charges on top of graphene in a magnetic field. Physical Review B, 2015, 92, .	3.2	5
23	Suppressed compressibility of quantum Hall effect edge states in epitaxial graphene on SiC. Physical Review B, 2018, 97, .	3.2	5
24	Fermionic determinant for dyons and instantons with nontrivial holonomy. Physical Review D, 2005, 71, .	4.7	3
25	New observables in topological instantonic field theories. Journal of Geometry and Physics, 2011, 61, 1868-1880.	1.4	3
26	Nematic phase in a two-dimensional Hubbard model at weak coupling and finite temperature. Physical Review B, 2018, 98, .	3.2	3
27	Charging of graphene by a magnetic field and the mechanical effect of magnetic oscillations. Journal of Physics Condensed Matter, 2013, 25, 496007.	1.8	2
28	Interpretation of Yangâ€“Mills instantons in terms of locally conformal geometry. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 065402.	2.1	1
29	Four-dimensional Yangâ€“Mills theory, gauge invariant mass and fluctuating three-branes. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 425402.	2.1	1
30	On spacetime rotation invariance, spin-charge separation andSU(2) Yangâ€“Mills theory. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 322001.	2.1	0
31	Towards construction of geometric bosonic quantum field theories I. JETP Letters, 2010, 91, 620-624.	1.4	0