

Sergey Smirnov

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

428
citations

623734

14
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752698

20
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31
all docs

31
docs citations

31
times ranked

296
citing authors

#	ARTICLE	IF	CITATIONS
1	Broken SU(4) symmetry in a Kondo-correlated carbon nanotube. Physical Review B, 2015, 91, .	3.2	38
2	Majorana tunneling entropy. Physical Review B, 2015, 92, .	3.2	33
3	Quantum Dissipative Rashba Spin Ratchets. Physical Review Letters, 2008, 100, 230601.	7.8	29
4	Universal Majorana thermoelectric noise. Physical Review B, 2018, 97, .	3.2	25
5	Monte Carlo modeling of the electron mobility in strained Si _{1-x} Ge _x layers on arbitrarily oriented Si _{1-y} Ge _y substrates. Solid-State Electronics, 2004, 48, 1325-1335.	1.4	23
6	Keldysh effective action theory for universal physics in spin-1/2 Kondo dots. Physical Review B, 2013, 87, .	3.2	21
7	Nonequilibrium Kondo transport through a quantum dot in a magnetic field. New Journal of Physics, 2013, 15, 073047.	2.9	20
8	Non-equilibrium Majorana fluctuations. New Journal of Physics, 2017, 19, 063020.	2.9	20
9	Dynamic Majorana resonances and universal symmetry of nonequilibrium thermoelectric quantum noise. Physical Review B, 2019, 100, .	3.2	20
10	Kondo effect in interacting nanoscopic systems: Keldysh field integral theory. Physical Review B, 2011, 84, .	3.2	19
11	Majorana finite-frequency nonequilibrium quantum noise. Physical Review B, 2019, 99, .	3.2	19
12	Slave-boson Keldysh field theory for the Kondo effect in quantum dots. Physical Review B, 2011, 84, .	3.2	17
13	Majorana entropy revival via tunneling phases. Physical Review B, 2021, 103, .	3.2	16
14	Bloch's theory in periodic structures with Rashba's spin-orbit interaction. Europhysics Letters, 2007, 80, 27003.	2.0	15
15	Monte Carlo method for modeling of small signal response including the Pauli exclusion principle. Journal of Applied Physics, 2003, 94, 5791-5799.	2.5	14
16	Blocking transport resonances via Kondo many-body entanglement in quantum dots. Nature Communications, 2016, 7, 12442.	12.8	13
17	Majorana ensembles with fractional entropy and conductance in nanoscopic systems. Physical Review B, 2021, 104, .	3.2	13
18	Revealing universal Majorana fractionalization using differential shot noise and conductance in nonequilibrium states controlled by tunneling phases. Physical Review B, 2022, 105, .	3.2	13

#	ARTICLE	IF	CITATIONS
19	Interplay between quantum dissipation and an in-plane magnetic field in the spin ratchet effect. Physical Review B, 2008, 78, .	3.2	8
20	Rigorous modeling approach to numerical simulation of SiGe HBTs. Applied Surface Science, 2004, 224, 361-364.	6.1	7
21	Anomalous Cherenkov spin-orbit sound. Physical Review B, 2011, 83, .	3.2	7
22	Dual Majorana universality in thermally induced nonequilibrium. Physical Review B, 2020, 101, .	3.2	7
23	Ruderman-Kittel-Kasuya-Yosida spin density oscillations: Impact of the finite radius of the exchange interaction. Physical Review B, 2009, 79, .	3.2	6
24	Cherenkov sound on a surface of a topological insulator. Physical Review B, 2013, 88, .	3.2	6
25	Charge ratchet from spin flip: Space-time symmetry paradox. Physical Review B, 2009, 80, .	3.2	5
26	Spin-channel Keldysh field theory for weakly interacting quantum dots. Physical Review B, 2012, 85, .	3.2	5
27	Asymmetric Cherenkov acoustic reverse in topological insulators. Physical Review B, 2014, 90, .	3.2	3
28	A Zero Field Monte Carlo Algorithm Accounting for the Pauli Exclusion Principle. Lecture Notes in Computer Science, 2004, , 185-193.	1.3	3
29	Mass modification of itinerant carriers in RKKY oscillations induced by finite-range exchange interactions. Physical Review B, 2010, 81, .	3.2	2
30	Unraveling a concealed resonance by multiple Kondo transitions in a quantum dot. Physical Review B, 2020, 101, .	3.2	1
31	Orthogonal Cherenkov sound in spin-orbit coupled systems. Scientific Reports, 2015, 5, 11159.	3.3	0