Sergei Aksenov

List of Publications by Year
in descending order

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24 papers	132 citations	1307594 7 h-index	1281871 11 g-index
24 all docs	24 docs citations	24 times ranked	66 citing authors

#	Article	IF	Citations
1	Strong Coulomb interactions in the problem of Majorana modes in a wire of the nontrivial topological class BDI. Physical Review B, 2020, 101, .	3.2	22
2	Effects of anisotropy and Coulomb interactions on quantum transport in a quadruple quantum-dot structure. Physical Review B, 2017, 95, .	3.2	19
3	Coulomb interactions-induced perfect spin-filtering effect in a quadruple quantum-dot cell. Journal of Magnetism and Magnetic Materials, 2017, 440, 15-18.	2.3	9
4	Occurrence of Topologically Nontrivial Phases, Cascade of Quantum Transitions, and Identification of Majorana Modes in Chiral Superconductors and Nanowires (Scientific Summary). JETP Letters, 2019, 110, 140-153.	1.4	9
5	Collapse of the Fano Resonance Caused by the Nonlocality of the Majorana State. JETP Letters, 2020, 111, 286-292.	1.4	9
6	Fano effect in Aharonovâ€“Bohm ring with topologically superconducting bridge. Journal of Physics Condensed Matter, 2019, 31, 225301.	1.8	8
7	Effects of inelastic spin-dependent electron transport through a spin nanostructure in a magnetic field. Journal of Experimental and Theoretical Physics, 2011, 113, 266-275.	0.9	7
8	Electronic spin polarization in the Majorana bound state in one-dimensional wires. Journal of Magnetism and Magnetic Materials, 2017, 440, 112-115.	2.3	7
9	Influence of Coulomb Correlations on Nonequilibrium Quantum Transport in a Quadruple Quantum-Dot Structure. JETP Letters, 2018, 107, 493-499.	1.4	7
10	Effects of multiple reflection in the process of inelastic electron transport through an anisotropic magnetic atom. JETP Letters, 2013, 98, 403-409.	1.4	6
11	Inelastic tunnel transport of electrons through an anisotropic magnetic structure in an external magnetic field. Journal of Experimental and Theoretical Physics, 2014, 119, 124-137.	0.9	6
12	Manifestation of Majorana modes overlap in the Aharonovâ€“Bohm effect. Journal of Physics Condensed Matter, 2022, 34, 255301.	1.8	5
13	Spin-polarized-current switching mediated by Majorana bound states. Journal of Magnetism and Magnetic Materials, 2018, 465, 88-92.	2.3	4
14	Effects of electron inelastic transport through the potential relief of a spin dimer in a magnetic field. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 1-5.	0.6	3
15	The Fano antiresonance effect in the current-voltage characteristics of a nanostructure with a single magnetic impurity. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 362-367.	0.6	3
16	Development of inelastic effects in the transport characteristics of spin nanostructures. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 731-733.	0.6	2
17	Effect of magnetic field orientation and disorder on Majorana polarization in wires with topological superconductivity. Low Temperature Physics, 2017, 43, 437-441.	0.6	2
18	Spin-flip induction of Fano resonance upon electron tunneling through atomic-scale spin structures. Journal of Experimental and Theoretical Physics, 2013, 116, 854-859.	0.9	1

#	Article	IF	Citations
19	Quantum transport through a multilevel magnetic structure with multiple inelastic scattering in a magnetic field taken into account. Low Temperature Physics, 2015, 41, 98-105.	0.6	1
20	Nonequilibrium Greenâ€™s Functions in the Atomic Representation and the Problem of Quantum Transport of Electrons Through Systems With Internal Degrees of Freedom. Theoretical and Mathematical Physics(Russian Federation), 2018, 194, 236-251.	0.9	1
21	Spinâ€“Orbit Coupling-Induced Effective Interactions in Superconducting Nanowires in the Strong Correlation Regime. Physics of the Solid State, 2020, 62, 1612-1618.	0.6	1
22	Fano effect upon tunneling of a spin-polarized electron through a single magnetic impurity. Low Temperature Physics, 2013, 39, 35-38.	0.6	0
23	Electron Transport Through Josephson Junction Containing a Dimeric Structure. Journal of Low Temperature Physics, 2016, 185, 446-452.	1.4	0
24	Renormalization of triplet populations of a spin dimer in zero magnetic field with quantum transport. Low Temperature Physics, 2019, 45, 165-175.	0.6	0