

Maxim G Vavilov

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

2,548
citations

28
h-index

49
g-index

80
ext. papers

2,902
ext. citations

4.2
avg, IF

5.26
L-index

#	Paper	IF	Citations
76	Theory of microwave-induced oscillations in the magnetoconductivity of a two-dimensional electron gas. <i>Physical Review B</i> , 2005 , 71,	3.3	283
75	Magnetotransport in a two-dimensional electron gas at large filling factors. <i>Physical Review B</i> , 2004 , 69,	3.3	225
74	Momentum dependence and nodes of the superconducting gap in the iron pnictides. <i>Physical Review B</i> , 2009 , 80,	3.3	125
73	Superconductivity and spin-density waves in multiband metals. <i>Physical Review B</i> , 2010 , 81,	3.3	118
72	Charge pumping and photovoltaic effect in open quantum dots. <i>Physical Review B</i> , 2001 , 63,	3.3	112
71	Interplay between magnetism and superconductivity in the iron pnictides. <i>Physical Review B</i> , 2009 , 79,	3.3	106
70	Superfluid density and penetration depth in the iron pnictides. <i>Physical Review B</i> , 2009 , 79,	3.3	96
69	Nonlinear resistivity of a two-dimensional electron gas in a magnetic field. <i>Physical Review B</i> , 2007 , 76,	3.3	91
68	Mechanisms of the microwave photoconductivity in two-dimensional electron systems with mixed disorder. <i>Physical Review B</i> , 2009 , 80,	3.3	77
67	Transport spectroscopy of Kondo quantum dots coupled by RKKY interaction. <i>Physical Review Letters</i> , 2005 , 94, 086805	7.4	64
66	Enhancement of T_c by disorder in underdoped iron pnictide superconductors. <i>Physical Review B</i> , 2012 , 85,	3.3	60
65	Coexistence of superconductivity and a spin-density wave in pnictide superconductors: Gap symmetry and nodal lines. <i>Physical Review B</i> , 2009 , 80,	3.3	56
64	Effect of microwave radiation on the nonlinear resistivity of a two-dimensional electron gas at large filling factors. <i>Physical Review B</i> , 2008 , 78,	3.3	56
63	Quantum-classical interface based on single flux quantum digital logic. <i>Quantum Science and Technology</i> , 2018 , 3, 024004	5.5	55
62	Quantum disorder and quantum chaos in Andreev billiards. <i>Physical Review B</i> , 2003 , 67,	3.3	49
61	Universal gap fluctuations in the superconductor proximity effect. <i>Physical Review Letters</i> , 2001 , 86, 87474	7.4	48
60	Phase diagram of iron pnictides if doping acts as a source of disorder. <i>Physical Review B</i> , 2011 , 84,	3.3	46

59	Failure of the Wiedemann-Franz law in mesoscopic conductors. <i>Physical Review B</i> , 2005 , 72,	3-3	41
58	Noise through quantum pumps. <i>Physical Review B</i> , 2002 , 65,	3-3	40
57	Photovoltaic and rectification currents in quantum dots. <i>Physical Review B</i> , 2005 , 71,	3-3	39
56	Enhancement of the London penetration depth in pnictides at the onset of spin-density-wave order under superconducting dome. <i>Physical Review Letters</i> , 2013 , 110, 177003	7-4	38
55	Nonlinear magnetoresistance oscillations in intensely irradiated two-dimensional electron systems induced by multiphoton processes. <i>Physical Review Letters</i> , 2010 , 104, 206801	7-4	37
54	Measurement of a superconducting qubit with a microwave photon counter. <i>Science</i> , 2018 , 361, 1239-1242,	3-3	36
53	Quantum efficiency of a microwave photon detector based on a current-biased Josephson junction. <i>Physical Review B</i> , 2012 , 86,	3-3	32
52	Conductance of mesoscopic systems with magnetic impurities. <i>Physical Review B</i> , 2003 , 67,	3-3	32
51	Compressibility of a two-dimensional electron gas under microwave radiation. <i>Physical Review B</i> , 2004 , 70,	3-3	31
50	Phonon-mediated quasiparticle poisoning of superconducting microwave resonators. <i>Physical Review B</i> , 2017 , 96,	3-3	29
49	Topological Andreev bands in three-terminal Josephson junctions. <i>Physical Review B</i> , 2017 , 96,	3-3	28
48	Coexistence between superconducting and spin density wave states in iron-based superconductors: Ginzburg-Landau analysis. <i>Superconductor Science and Technology</i> , 2010 , 23, 054011	3-1	28
47	Nonadiabatic dynamics of a slowly driven dissipative two-level system. <i>Physical Review A</i> , 2014 , 89,	2-6	26
46	High-fidelity qubit measurement with a microwave-photon counter. <i>Physical Review A</i> , 2014 , 90,	2-6	26
45	Full counting statistics of photons emitted by a double quantum dot. <i>Physical Review B</i> , 2013 , 88,	3-3	25
44	Theory of dephasing by external perturbation in open quantum dots. <i>Physical Review B</i> , 1999 , 60, R16313-R16314	3-3	24
43	Quantum photovoltaic effect in double quantum dots. <i>Physical Review B</i> , 2013 , 87,	3-3	20
42	Weyl nodes in Andreev spectra of multiterminal Josephson junctions: Chern numbers, conductances, and supercurrents. <i>Physical Review B</i> , 2018 , 97,	3-3	19

41	Qubit relaxation from evanescent-wave Johnson noise. <i>Physical Review A</i> , 2012 , 86,	2.6	19
40	Conductance fluctuations of open quantum dots under microwave radiation. <i>Physical Review B</i> , 2001 , 64,	3.3	19
39	Jump in specific heat in the presence of a spin-density wave at the superconducting transition in iron pnictides. <i>Physical Review B</i> , 2011 , 84,	3.3	18
38	Spin relaxation in quantum dots due to electron exchange with leads. <i>Physical Review Letters</i> , 2008 , 101, 226805	7.4	18
37	Quantum efficiency of a single microwave photon detector based on a semiconductor double quantum dot. <i>Physical Review A</i> , 2017 , 95,	2.6	17
36	Phonon-induced resistance oscillations of two-dimensional electron systems drifting with supersonic velocities. <i>Physical Review B</i> , 2010 , 82,	3.3	17
35	Stochastic dynamics of magnetization in a ferromagnetic nanoparticle out of equilibrium. <i>Physical Review B</i> , 2009 , 79,	3.3	16
34	Hardware-Efficient Qubit Control with Single-Flux-Quantum Pulse Sequences. <i>Physical Review Applied</i> , 2019 , 12,	4.3	13
33	Relaxation in quantum dots due to evanescent-wave Johnson noise. <i>Physical Review B</i> , 2013 , 87,	3.3	13
32	Multiterminal Josephson Effect. <i>Physical Review X</i> , 2020 , 10,	9.1	12
31	Absence of Zero-Temperature Dephasing by Electron-Electron Interaction. <i>Journal of Low Temperature Physics</i> , 2002 , 126, 1377-1384	1.3	11
30	Quantum chaotic scattering in time-dependent external fields: random matrix approach. <i>Journal of Physics A</i> , 2005 , 38, 10587-10611		11
29	Scalable two- and four-qubit parity measurement with a threshold photon counter. <i>Physical Review A</i> , 2015 , 92,	2.6	10
28	Steering random spin systems to speed up the quantum adiabatic algorithm. <i>Physical Review A</i> , 2018 , 98,	2.6	10
27	Electromagnetic fluctuations near thin metallic films. <i>Physical Review B</i> , 2014 , 89,	3.3	9
26	A tunable quantum dissipator for active resonator reset in circuit QED. <i>Quantum Science and Technology</i> , 2019 , 4, 025001	5.5	8
25	Optimizing microwave photodetection: input-output theory. <i>Quantum Science and Technology</i> , 2018 , 3, 024009	5.5	8
24	Magnetic penetration depth in the presence of a spin-density wave in multiband superconductors at zero temperature. <i>Superconductor Science and Technology</i> , 2012 , 25, 084001	3.1	8

23	Controlled-Z gate for transmon qubits coupled by semiconductor junctions. <i>Physical Review B</i> , 2018 , 97,	3.3	8
22	Effects of charge noise on a pulse-gated singlet-triplet S \bar{D} qubit. <i>Physical Review B</i> , 2017 , 96,	3.3	7
21	Magnetic penetration depth in disordered iron-based superconductors. <i>Physical Review B</i> , 2015 , 92,	3.3	7
20	Reduced effect of impurities on the universal pairing scale in the cuprates. <i>Physical Review B</i> , 2010 , 81,	3.3	7
19	Microwave-activated controlled-Z gate for fixed-frequency fluxonium qubits. <i>Physical Review A</i> , 2018 , 98,	2.6	7
18	Effect of spin-density wave fluctuations on the specific heat jump in iron pnictides at the superconducting transition. <i>Physical Review B</i> , 2014 , 89,	3.3	6
17	Nonuniversal weak antilocalization effect in cubic topological Kondo insulators. <i>Physical Review B</i> , 2015 , 92,	3.3	5
16	Phonon-induced decoherence of a charge quadrupole qubit. <i>New Journal of Physics</i> , 2018 , 20, 103048	2.9	5
15	Effect of an Ohmic environment on an optimally controlled flux-biased phase qubit. <i>Physical Review B</i> , 2010 , 82,	3.3	4
14	Photovoltaic current response of mesoscopic conductors to quantized cavity modes. <i>Physical Review Letters</i> , 2006 , 97, 216801	7.4	4
13	Majorana bound states in nanowire-superconductor hybrid systems in periodic magnetic fields. <i>Physical Review B</i> , 2020 , 101,	3.3	3
12	Decreasing excitation gap in Andreev billiards by disorder scattering. <i>Europhysics Letters</i> , 2008 , 82, 47006.6	6.6	3
11	Effect of Coulomb interaction on current noise in open quantum dots. <i>Physical Review B</i> , 2007 , 76,	3.3	3
10	Aharonov-Bohm effect as a probe of interaction between magnetic impurities. <i>Physical Review Letters</i> , 2005 , 94, 096602	7.4	3
9	Fast Logic with Slow Qubits: Microwave-Activated Controlled-Z Gate on Low-Frequency Fluxoniums. <i>Physical Review X</i> , 2021 , 11,	9.1	3
8	Response to a local quench of a system near the many-body localization transition. <i>Physical Review B</i> , 2017 , 95,	3.3	2
7	Evanescent-wave Johnson noise in small devices. <i>Quantum Science and Technology</i> , 2018 , 3, 015001	5.5	2
6	Josephson currents in chaotic quantum dots. <i>Physical Review B</i> , 2018 , 97,	3.3	2

5	DIFFERENTIAL RESISTANCE OF TWO DIMENSIONAL ELECTRON SYSTEMS SUBJECT TO MICROWAVE RADIATION. <i>International Journal of Modern Physics B</i> , 2009 , 23, 2693-2697	1.1	2
4	Giant magneto-oscillations of electric-field-induced spin polarization in a two-dimensional electron gas. <i>Physical Review B</i> , 2005 , 72,	3.3	2
3	Proposal for Entangling Gates on Fluxonium Qubits via a Two-Photon Transition. <i>PRX Quantum</i> , 2021 , 2,	6.1	2
2	Response of a quantum disordered spin system to a local periodic drive. <i>Physical Review B</i> , 2020 , 101,	3.3	1
1	Impacts of random filling on spin squeezing via Rydberg dressing in optical clocks. <i>Physical Review A</i> , 2021 , 103,	2.6	1