

Dmitry S Golubev

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2686671/publications.pdf>

Version: 2024-02-01

105
papers

3,101
citations

136950

32
h-index

168389

53
g-index

108
all docs

108
docs citations

108
times ranked

2096
citing authors

#	ARTICLE	IF	CITATIONS
1	An electron turnstile for frequency-to-power conversion. <i>Nature Nanotechnology</i> , 2022, 17, 239-243.	31.5	6
2	Optimization of the Cold-Electron Bolometer and a Quasiparticle Cascade Amplifier in the Voltage-Biased Mode. <i>IEEE Transactions on Applied Superconductivity</i> , 2022, 32, 1-5.	1.7	2
3	Photonic heat transport in three terminal superconducting circuit. <i>Nature Communications</i> , 2022, 13, 1552.	12.8	12
4	Self-standardization of quality of bacterial cellulose produced by <i>Medusomyces gisevii</i> in nutrient media derived from <i>Miscanthus</i> biomass. <i>Carbohydrate Polymers</i> , 2021, 252, 117178.	10.2	21
5	Single-Photon Detection with a Josephson Junction Coupled to a Resonator. <i>Physical Review Applied</i> , 2021, 16, .	3.8	11
6	Robust Strong-Coupling Architecture in Circuit Quantum Electrodynamics. <i>Physical Review Applied</i> , 2021, 16, .	3.8	3
7	Joule heating effects in high-transparency Josephson junctions. <i>Physical Review B</i> , 2021, 104, .	3.2	3
8	Superconducting phase transition in inhomogeneous chains of superconducting islands. <i>Physical Review B</i> , 2020, 102, .	3.2	0
9	Topological insulator nanoribbon Josephson junctions: Evidence for size effects in transport properties. <i>Journal of Applied Physics</i> , 2020, 128, 194304.	2.5	21
10	Electric field control of radiative heat transfer in a superconducting circuit. <i>Nature Communications</i> , 2020, 11, 4326.	12.8	25
11	Thermally pumped on-chip maser. <i>Physical Review B</i> , 2020, 102, .	3.2	5
12	Exactly solvable model of calorimetric measurements. <i>Physical Review B</i> , 2020, 102, .	3.2	7
13	Intrinsic Dissipation in Superconducting Junctions Probed by Qubit Spectroscopy. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800256.	2.4	2
14	Photonic heat transport across a Josephson junction. <i>Physical Review B</i> , 2019, 100, .	3.2	13
15	Universal First-Passage-Time Distribution of Non-Gaussian Currents. <i>Physical Review Letters</i> , 2019, 122, 230602.	7.8	17
16	Extreme reductions of entropy in an electronic double dot. <i>Physical Review B</i> , 2019, 99, .	3.2	18
17	Thermal and quantum decay of supercurrent in highly transparent weak links. <i>European Physical Journal: Special Topics</i> , 2019, 227, 2001-2012.	2.6	0
18	Cross-correlated shot noise in three-terminal superconducting hybrid nanostructures. <i>Physical Review B</i> , 2019, 99, .	3.2	12

#	ARTICLE	IF	CITATIONS
19	Hanbury Brown and Twiss exchange correlations in a graphene box. <i>Physical Review B</i> , 2019, 100, .	3.2	1
20	Bacterial Nanocellulose Nitrates. <i>Nanomaterials</i> , 2019, 9, 1694.	4.1	25
21	Josephson Effect in Graphene and 3D Topological Insulators. <i>Springer Series in Materials Science</i> , 2019, , 529-553.	0.6	1
22	Intrinsic Quantum Dissipation in Superconducting Weak Links. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 715-721.	1.8	4
23	Approximate solutions to Mathieu's equation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 100, 24-30.	2.7	13
24	Anomalous Switching Current Distributions in Superconducting Weak Links. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, 28, 1-5.	1.7	4
25	Determining the parameters of a random telegraph signal by digital low pass filtering. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	4
26	High-Transparency Al/Bi ₂ Te ₃ Double-Barrier Heterostructures. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-4.	1.7	9
27	Andreev levels as a quantum dissipative environment. <i>Physical Review B</i> , 2017, 96, .	3.2	7
28	Induced unconventional superconductivity on the surface states of Bi ₂ Te ₃ topological insulator. <i>Nature Communications</i> , 2017, 8, 2019.	12.8	40
29	Wideband superconducting nanotube electrometer. <i>Applied Physics Letters</i> , 2015, 107, 012601.	3.3	0
30	Effect of heating on critical current of YBCO nanowires. <i>Physica C: Superconductivity and Its Applications</i> , 2014, 506, 174-177.	1.2	9
31	Tunneling and relaxation of single quasiparticles in a normal-superconductor-normal single-electron transistor. <i>Physical Review B</i> , 2014, 89, .	3.2	9
32	Noise spectrum of a quantum dot "resonator" lasing circuit. <i>New Journal of Physics</i> , 2013, 15, 025044.	2.9	21
33	Spin torque switching of an in-plane magnetized system in a thermally activated region. <i>Physical Review B</i> , 2013, 87, .	3.2	41
34	Test of the fluctuation theorem for single-electron transport. <i>Journal of Applied Physics</i> , 2013, 113, 136507.	2.5	7
35	Model Evidence of a Superconducting State with a Full Energy Gap in Small Cuprate Islands. <i>Physical Review Letters</i> , 2013, 110, 197001.	7.8	20
36	Enhancing the Molecular Signature in Molecule Nanoparticle Networks Via Inelastic Cotunneling. <i>Advanced Materials</i> , 2013, 25, 400-404.	21.0	38

#	ARTICLE	IF	CITATIONS
37	Nonlocal transport and heating in superconductors under dual-bias conditions. Physical Review B, 2013, 88, .	3.2	5
38	Heat transport through a Josephson junction. Physical Review B, 2013, 87, .	3.2	42
39	Pure dephasing in flux qubits due to flux noise with spectral density scaling as $1/f^{\pm}$. Physical Review B, 2012, 85, .	3.2	33
40	Irreversibility on the Level of Single-Electron Tunneling. Physical Review X, 2012, 2, .	8.9	85
41	Non-local electron transport and Coulomb effects in three-terminal metallic conductors. Journal of Physics: Conference Series, 2012, 338, 012009.	0.4	1
42	Effective temperature and the fluctuation theorem in a double quantum dot coupled to a point-contact electrometer. Journal of Physics: Conference Series, 2012, 400, 042012.	0.4	0
43	Work fluctuation theorem for a classical circuit coupled to a quantum conductor. Physical Review B, 2012, 86, .	3.2	9
44	Coulomb blockade of nonlocal electron transport in metallic conductors. Physical Review B, 2012, 85, .	3.2	3
45	Lasing without Inversion in Circuit Quantum Electrodynamics. Physical Review Letters, 2011, 107, 093901.	7.8	37
46	Fluctuation theorem for a double quantum dot coupled to a point-contact electrometer. Physical Review B, 2011, 84, .	3.2	32
47	Bidirectional single-electron counting and the fluctuation theorem. Physical Review B, 2010, 81, .	3.2	89
48	Statistics of voltage fluctuations in resistively shunted Josephson junctions. Physical Review B, 2010, 81, .	3.2	16
49	Magnetic field and contact resistance dependence of non-local charge imbalance. Nanotechnology, 2010, 21, 274002.	2.6	24
50	Weak localization, Aharonov-Bohm oscillations, and decoherence in arrays of quantum dots. Low Temperature Physics, 2010, 36, 933-950.	0.6	4
51	Shot noise and Coulomb effects on nonlocal electron transport in normal-metal/superconductor/normal-metal heterostructures. Physical Review B, 2010, 82, .	3.2	20
52	Aharonov-Bohm oscillations in coupled quantum dots: Effect of electron-electron interactions. Physical Review B, 2009, 79, .	3.2	3
53	Non-local Andreev reflection under ac bias. Europhysics Letters, 2009, 86, 37009.	2.0	14
54	Disorder-induced pseudodiffusive transport in graphene nanoribbons. Physical Review B, 2009, 79, .	3.2	11

#	ARTICLE	IF	CITATIONS
55	Crossed Andreev Reflection and Charge Imbalance in Diffusive Normal-Superconducting-Normal Structures. <i>Physical Review Letters</i> , 2009, 103, 067006.	7.8	40
56	Side-Gated Transport in Focused-Ion-Beam-Fabricated Multilayered Graphene Nanoribbons. <i>Small</i> , 2008, 4, 716-720.	10.0	38
57	Full counting statistics for electron number in quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 154-157.	0.8	0
58	Superconductivity in one dimension. <i>Physics Reports</i> , 2008, 464, 1-70.	25.6	299
59	Weak localization in a system with a barrier: dephasing and weak Coulomb blockade. <i>New Journal of Physics</i> , 2008, 10, 063027.	2.9	11
60	Thermally activated phase slips in superconducting nanowires. <i>Physical Review B</i> , 2008, 78, .	3.2	43
61	On a theory of low temperature electron decoherence in disordered conductors. <i>Journal of Physics: Conference Series</i> , 2008, 129, 012016.	0.4	2
62	FULL COUNTING STATISTICS FOR A SINGLE-ELECTRON TRANSISTOR AT INTERMEDIATE CONDUCTANCE. , 2008, , .		0
63	Universal scaling of current fluctuations in disordered graphene. <i>Physical Review B</i> , 2007, 76, .	3.2	55
64	Non-local Andreev reflection in superconducting quantum dots. <i>Physical Review B</i> , 2007, 76, .	3.2	46
65	Quantum decoherence of interacting electrons in arrays of quantum dots and diffusive conductors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 40, 32-49.	2.7	23
66	Superconducting Cold-Electron Bolometers with JFET Readout for OLIMPO Balloon Telescope. <i>Journal of Physics: Conference Series</i> , 2006, 43, 1298-1302.	0.4	6
67	Full counting statistics of interacting electrons. <i>Fortschritte Der Physik</i> , 2006, 54, 917-938.	4.4	45
68	Full Counting Statistics for a Single-Electron Transistor: Nonequilibrium Effects at Intermediate Conductance. <i>Physical Review Letters</i> , 2006, 96, 086803.	7.8	39
69	Weak localization in arrays of metallic quantum dots: Combined scattering matrix formalism and nonlinear f model. <i>Physical Review B</i> , 2006, 74, .	3.2	17
70	Many-fermion generalization of the Caldeira-Leggett model. <i>Physical Review A</i> , 2005, 72, .	2.5	9
71	Electron transport and current fluctuations in short coherent conductors. <i>Physical Review B</i> , 2005, 72, .	3.2	39
72	Electron transport through interacting quantum dots in the metallic regime. <i>Physical Review B</i> , 2004, 69, .	3.2	41

#	ARTICLE	IF	CITATIONS
73	Transport of interacting electrons in arrays of quantum dots and diffusive wires. <i>Physical Review B</i> , 2004, 70, .	3.2	24
74	Relaxation and Dephasing in a Many-Fermion Generalization of the Caldeira-Leggett Model. <i>Physical Review Letters</i> , 2004, 93, 130404.	7.8	11
75	Statistics of current fluctuations and electron-electron interactions in mesoscopic coherent conductors. , 2004, 5469, 273.		0
76	Low Temperature Decoherence by Electronâ€“Electron Interactions: Role of Quantum Fluctuations. <i>Journal of Low Temperature Physics</i> , 2003, 132, 11-38.	1.4	17
77	Interaction-induced quantum dephasing in mesoscopic rings. <i>Europhysics Letters</i> , 2003, 63, 426-432.	2.0	25
78	Current fluctuations and electron-electron interactions in coherent conductors. <i>Physical Review B</i> , 2003, 68, .	3.2	33
79	Statistics of current fluctuations in mesoscopic coherent conductors at nonzero frequencies. <i>Physical Review B</i> , 2003, 68, .	3.2	39
80	Low-Temperature Dephasing and Renormalization in Model Systems. <i>Journal of the Physical Society of Japan</i> , 2003, 72, 30-35.	1.6	7
81	Coulomb blockade and insulator-to-metal quantum phase transition. <i>Europhysics Letters</i> , 2002, 60, 113-119.	2.0	5
82	On the concept of an optimal hot-electron bolometer with NIS tunnel junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 372-376, 378-382.	1.2	28
83	On Low-Temperature Dephasing by Electron-Electron Interaction. <i>Journal of Low Temperature Physics</i> , 2002, 126, 1355-1376.	1.4	36
84	Nonequilibrium theory of a hot-electron bolometer with normal metal-insulator-superconductor tunnel junction. <i>Journal of Applied Physics</i> , 2001, 89, 6464-6472.	2.5	100
85	Coulomb Interaction and Quantum Transport through a Coherent Scatterer. <i>Physical Review Letters</i> , 2001, 86, 4887-4890.	7.8	86
86	Quantum tunneling of the order parameter in superconducting nanowires. <i>Physical Review B</i> , 2001, 64, .	3.2	178
87	Interaction and quantum decoherence in disordered conductors. <i>Physica B: Condensed Matter</i> , 2000, 280, 453-457.	2.7	7
88	Interactions and weak localization: Perturbation theory and beyond. <i>Physical Review B</i> , 2000, 62, 14061-14098.	3.2	32
89	Josephson spectroscopy at submillimetre waves. <i>Superconductor Science and Technology</i> , 1999, 12, 995-997.	3.5	4
90	Submillimeter-wave mixing and noise in HTS Josephson junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 3761-3764.	1.7	7

#	ARTICLE	IF	CITATIONS
91	Quantum decoherence and weak localization at low temperatures. Physical Review B, 1999, 59, 9195-9213.	3.2	80
92	Subharmonic Shapiro steps and noise in high-T _c superconductor Josephson junctions. JETP Letters, 1998, 68, 454-459.	1.4	14
93	Interaction and quantum decoherence. Physica B: Condensed Matter, 1998, 255, 164-178.	2.7	35
94	Quantum Decoherence in Disordered Mesoscopic Systems. Physical Review Letters, 1998, 81, 1074-1077.	7.8	141
95	Strong electron tunneling through mesoscopic metallic grains. Physical Review B, 1997, 56, 15782-15793.	3.2	45
96	Quantum Phase Slips and Transport in Ultrathin Superconducting Wires. Physical Review Letters, 1997, 78, 1552-1555.	7.8	269
97	Parity-Affected Superconductivity in Ultrasmall Metallic Grains. Physical Review Letters, 1996, 77, 3189-3192.	7.8	188
98	Superconductivity and parity effect in ultrasmall metallic particles. European Physical Journal D, 1996, 46, 2391-2392.	0.4	0
99	Strong electron tunneling in mesoscopic metallic grains. European Physical Journal D, 1996, 46, 2401-2402.	0.4	0
100	Quantum decay of supercurrent in thin superconducting wires. European Physical Journal D, 1996, 46, 571-572.	0.4	1
101	Zener tunneling in small Josephson junctions with dissipation. European Physical Journal D, 1996, 46, 655-656.	0.4	0
102	Charge transport and Zener tunneling in small Josephson junctions with dissipation. Physical Review B, 1996, 54, 10074-10080.	3.2	16
103	Quantum fluctuations of the charge near the Coulomb-blockade threshold. Physical Review B, 1994, 50, 8736-8745.	3.2	36
104	Quantum dynamics of ultrasmall tunnel junctions: Real-time analysis. Physical Review B, 1992, 46, 10903-10916.	3.2	25
105	Full Counting Statistics of Interacting Electrons. , 0, , 425-456.		0