

Alexey Ustinov

List of Publications by Year in descending order

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359
papers

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369
docs citations

369
times ranked

4868
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of Breathers in Josephson Ladders. <i>Physical Review Letters</i> , 2000, 84, 745-748.	2.9	357
2	Classical Analogue of Electromagnetically Induced Transparency with a Metal-Superconductor Hybrid Metamaterial. <i>Physical Review Letters</i> , 2011, 107, 043901.	2.9	251
3	Solitons in Josephson junctions. <i>Physica D: Nonlinear Phenomena</i> , 1998, 123, 315-329.	1.3	226
4	Implementation of superconductor/ferromagnet/ superconductor δ -shifters in superconducting digital and quantum circuits. <i>Nature Physics</i> , 2010, 6, 593-597.	6.5	205
5	Solid-State Qubits with Current-Controlled Coupling. <i>Science</i> , 2006, 314, 1427-1429.	6.0	186
6	Anisotropic Rare-Earth Spin Ensemble Strongly Coupled to a Superconducting Resonator. <i>Physical Review Letters</i> , 2013, 110, 157001.	2.9	179
7	Josephson Behavior of Phase-Slip Lines in Wide Superconducting Strips. <i>Physical Review Letters</i> , 2003, 91, 267001.	2.9	156
8	Theory and experiment on electromagnetic-wave-propagation velocities in stacked superconducting tunnel structures. <i>Physical Review B</i> , 1994, 50, 12905-12914.	1.1	154
9	Quantum dynamics of a single vortex. <i>Nature</i> , 2003, 425, 155-158.	13.7	154
10	Non-Josephson Emission from Intrinsic Junctions in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$: Cherenkov Radiation by Josephson Vortices. <i>Physical Review Letters</i> , 1997, 79, 1365-1368.	2.9	147
11	Efficient and robust analysis of complex scattering data under noise in microwave resonators. <i>Review of Scientific Instruments</i> , 2015, 86, 024706.	0.6	147
12	Fluxon dynamics in one-dimensional Josephson-junction arrays. <i>Physical Review B</i> , 1993, 47, 8357-8360.	1.1	140
13	Enhanced Macroscopic Quantum Tunneling in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$ Intrinsic Josephson-Junction Stacks. <i>Physical Review Letters</i> , 2006, 96, 177003.	2.9	128
14	Implementation of a quantum metamaterial using superconducting qubits. <i>Nature Communications</i> , 2014, 5, 5146.	5.8	120
15	Ratchetlike Dynamics of Fluxons in Annular Josephson Junctions Driven by Biharmonic Microwave Fields. <i>Physical Review Letters</i> , 2004, 93, 087001.	2.9	118
16	Progress in superconducting metamaterials. <i>Superconductor Science and Technology</i> , 2014, 27, 073001.	1.8	118
17	Rapid single-flux quantum logic using δ -shifters. <i>Journal of Applied Physics</i> , 2003, 94, 5405.	1.1	114
18	Analog quantum simulation of the Rabi model in the ultra-strong coupling regime. <i>Nature Communications</i> , 2017, 8, 779.	5.8	114

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19	Loss Mechanisms and Quasiparticle Dynamics in Superconducting Microwave Resonators Made of Thin-Film Granular Aluminum. <i>Physical Review Letters</i> , 2018, 121, 117001.	2.9	108
20	Observation of directly interacting coherent two-level systems in an amorphous material. <i>Nature Communications</i> , 2015, 6, 6182.	5.8	105
21	Strain Tuning of Individual Atomic Tunneling Systems Detected by a Superconducting Qubit. <i>Science</i> , 2012, 338, 232-234.	6.0	104
22	Correlating Decoherence in Transmon Qubits: Low Frequency Noise by Single Fluctuators. <i>Physical Review Letters</i> , 2019, 123, 190502.	2.9	104
23	Coupled fluxon modes in stacked Nb/AlO _x /Nb long Josephson junctions. <i>Physical Review B</i> , 1993, 48, 10614-10617.	1.1	101
24	Nernst effect in superconducting Y-Ba-Cu-O. <i>Physical Review Letters</i> , 1990, 64, 3195-3198.	2.9	98
25	Dynamics of sine-Gordon solitons in the annular Josephson junction. <i>Physical Review Letters</i> , 1992, 69, 1815-1818.	2.9	98
26	Multiphoton Transitions between Energy Levels in a Current-Biased Josephson Tunnel Junction. <i>Physical Review Letters</i> , 2003, 90, 037003.	2.9	96
27	Granular aluminium as a superconducting material for high-impedance quantum circuits. <i>Nature Materials</i> , 2019, 18, 816-819.	13.3	96
28	Ultralow-power spectroscopy of a rare-earth spin ensemble using a superconducting resonator. <i>Physical Review B</i> , 2011, 84, .	1.1	91
29	Self-pumping effects and radiation linewidth of Josephson flux-flow oscillators. <i>Physical Review B</i> , 1997, 56, 5572-5577.	1.1	84
30	Tunability of Superconducting Metamaterials. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 918-921.	1.1	81
31	Circuit quantum electrodynamics of granular aluminum resonators. <i>Nature Communications</i> , 2018, 9, 3889.	5.8	81
32	Electric field spectroscopy of material defects in transmon qubits. <i>Npj Quantum Information</i> , 2019, 5, .	2.8	74
33	Experimental and numerical study of dynamic regimes in a discrete sine-Gordon lattice. <i>Physical Review B</i> , 1995, 51, 3081-3091.	1.1	67
34	Cherenkov radiation in coupled long Josephson junctions. <i>Physical Review B</i> , 1998, 57, 130-133.	1.1	67
35	Seebeck effect in the mixed state of high-T _c superconductors. <i>Physical Review B</i> , 1990, 42, 4831-4833.	1.1	66
36	Detection of 0.5THz radiation from intrinsic Bi ₂ Sr ₂ CaCu ₂ O ₈ Josephson junctions. <i>Applied Physics Letters</i> , 2006, 88, 262504.	1.5	65

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37	Static and dynamic properties of $0, \pi$ states in a double-dot system. <i>Physical Review Letters</i> , 2003, 91, 076801. https://doi.org/10.1103/PhysRevLett.91.076801	1.1	65
38	Reducing the impact of radioactivity on quantum circuits in a deep-underground facility. <i>Nature Communications</i> , 2021, 12, 2733. https://doi.org/10.1038/s41467-021-25111-1	5.8	65
39	Fluxon insertion into annular Josephson junctions. <i>Applied Physics Letters</i> , 2002, 80, 3153-3155. https://doi.org/10.1063/1.1461000	1.5	64
40	Measuring the Temperature Dependence of Individual Two-Level Systems by Direct Coherent Control. <i>Physical Review Letters</i> , 2010, 105, 230504. https://doi.org/10.1103/PhysRevLett.105.230504	2.9	64
41	Switching current measurements of large area Josephson tunnel junctions. <i>Review of Scientific Instruments</i> , 2003, 74, 3740-3748. https://doi.org/10.1063/1.1561000	0.6	59
42	Frequency division multiplexing readout and simultaneous manipulation of an array of flux qubits. <i>Applied Physics Letters</i> , 2012, 101, 042604. https://doi.org/10.1063/1.3676044	1.5	59
43	Submillimeter-band high-power generation using multilayered Josephson junctions. <i>Applied Physics Letters</i> , 1998, 73, 686-688. https://doi.org/10.1063/1.57760	1.5	57
44	Decoherence spectroscopy with individual two-level tunneling defects. <i>Scientific Reports</i> , 2016, 6, 23786. https://doi.org/10.1038/srep23786	1.6	57
45	Multistability and switching in a superconducting metamaterial. <i>Nature Communications</i> , 2014, 5, 3730. https://doi.org/10.1038/ncomms3730	5.8	55
46	Microwave multimode memory with an erbium spin ensemble. <i>Physical Review B</i> , 2015, 92, . https://doi.org/10.1103/PhysRevB.92.100407	1.1	55
47	Laser scanning microscopy of HTS films and devices (Review Article). <i>Low Temperature Physics</i> , 2006, 32, 592-607. https://doi.org/10.1007/s10909-006-9100-1	0.2	54
48	Low-loss tunable metamaterials using superconducting circuits with Josephson junctions. <i>Applied Physics Letters</i> , 2013, 102, . https://doi.org/10.1063/1.3776044	1.5	54
49	Fluxon Readout of a Superconducting Qubit. <i>Physical Review Letters</i> , 2014, 112, 160502. https://doi.org/10.1103/PhysRevLett.112.160502	2.9	50
50	Possible phase locking of vertically stacked Josephson flux-flow oscillators. <i>Applied Physics Letters</i> , 1994, 65, 1457-1459. https://doi.org/10.1063/1.65400	1.5	49
51	Title is missing!. <i>Journal of Low Temperature Physics</i> , 2000, 118, 543-553. https://doi.org/10.1007/s10909-000-9100-1	0.6	49
52	Fluxons in Josephson transmission lines: new developments. <i>Superconductor Science and Technology</i> , 1995, 8, 389-401. https://doi.org/10.1088/0954-3895/8/3/001	1.8	48
53	Temperature Dependence of Coherent Oscillations in Josephson Phase Qubits. <i>Physical Review Letters</i> , 2007, 99, 170504. https://doi.org/10.1103/PhysRevLett.99.170504	2.9	48
54	Quantum simulation of the spin-boson model with a microwave circuit. <i>Physical Review A</i> , 2018, 97, . https://doi.org/10.1103/PhysRevA.97.042305	1.0	48

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55	Giant Radiation Linewidth of Multifluxon States in Long Josephson Junctions. <i>Physical Review Letters</i> , 1996, 77, 3617-3620.	2.9	47
56	Charge quantum interference device. <i>Nature Physics</i> , 2018, 14, 590-594.	6.5	47
57	Imaging of discrete breathers. <i>Chaos</i> , 2003, 13, 716-724.	1.0	45
58	Aluminium-oxide wires for superconducting high kinetic inductance circuits. <i>Superconductor Science and Technology</i> , 2017, 30, 025002.	1.8	45
59	Improved powder filters for qubit measurements. <i>Review of Scientific Instruments</i> , 2008, 79, 014701.	0.6	44
60	A one-dimensional tunable magnetic metamaterial. <i>Optics Express</i> , 2013, 21, 22540.	1.7	44
61	Phase-locked flux-flow Josephson oscillator. <i>Journal of Applied Physics</i> , 1992, 72, 1203-1205.	1.1	43
62	Coherent oscillations in a superconducting tunable flux qubit manipulated without microwaves. <i>New Journal of Physics</i> , 2009, 11, 013009.	1.2	43
63	Ferromagnet/Superconductor Hybridization for Magnonic Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1802375.	7.8	43
64	Three-dimensional cavity quantum electrodynamics with a rare-earth spin ensemble. <i>Physical Review B</i> , 2014, 90, .	1.1	42
65	Multiphoton dressing of an anharmonic superconducting many-level quantum circuit. <i>Physical Review B</i> , 2015, 91, .	1.1	42
66	Quantum technology: from research to application. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	1.1	42
67	Josephson Vortex Qubit: Design, Preparation and Read-Out. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 233, 472-481.	0.7	41
68	Observation of Soliton Fusion in a Josephson Array. <i>Physical Review Letters</i> , 2006, 96, 034103.	2.9	40
69	Creation of classical and quantum fluxons by a current dipole in a long Josephson junction. <i>Physical Review B</i> , 2004, 69, .	1.1	39
70	Switching nonlinearity in a superconductor-enhanced metamaterial. <i>Applied Physics Letters</i> , 2012, 100, 121906.	1.5	39
71	Bunched fluxon states in one-dimensional Josephson-junction arrays. <i>Physical Review B</i> , 1998, 57, 11691-11697.	1.1	38
72	Numerical study of fluxon dynamics in a system of two-stacked Josephson junctions. <i>Journal of Applied Physics</i> , 1995, 77, 1171-1177.	1.1	37

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73	Diversity of discrete breathers observed in a Josephson ladder. <i>Physical Review E</i> , 2000, 62, 2858-2862.	0.8	36
74	Superconducting RF Metamaterials Made With Magnetically Active Planar Spirals. <i>IEEE Transactions on Applied Superconductivity</i> , 2011, 21, 709-712.	1.1	36
75	Strong coupling of an Er^3+ ion to a superconducting resonator. <i>Physical Review B</i> , 2014, 90, .	1.1	36
76	Ultrastrong photon-to-magnon coupling in multilayered heterostructures involving superconducting coherence via ferromagnetic layers. <i>Science Advances</i> , 2021, 7, .	4.7	36
77	Phonon traps reduce the quasiparticle density in superconducting circuits. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	34
78	Magnetization Dynamics in Proximity-Coupled Superconductor-Ferromagnet-Superconductor Multilayers. <i>Physical Review Applied</i> , 2020, 14, .	1.5	34
79	Radiation linewidth of a long Josephson junction in the flux-flow regime. <i>Physical Review B</i> , 1996, 54, 3047-3050.	1.1	33
80	Experimental evidence for supersoliton modes in a long modulated Josephson junction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 139, 481-484.	0.9	32
81	Rabi spectroscopy of a qubit-fluctuator system. <i>Physical Review B</i> , 2010, 81, .	1.1	32
82	Concentric transmon qubit featuring fast tunability and an anisotropic magnetic dipole moment. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	32
83	Quantum Dissociation of a Vortex-Antivortex Pair in a Long Josephson Junction. <i>Physical Review Letters</i> , 2003, 91, 257004.	2.9	31
84	Resonance interaction between fluxon and plasma waves in long Josephson junction. <i>IEEE Transactions on Magnetics</i> , 1987, 23, 781-784.	1.2	30
85	Super-relativistic fluxon in a Josephson multilayer: Experiment and simulation. <i>Physical Review B</i> , 2002, 66, .	1.1	30
86	Super-radiant multifluxon dynamics in a system of parallel-coupled Josephson junctions. <i>Physical Review B</i> , 1990, 41, 254-258.	1.1	29
87	Millimeter-wave-induced fluxon pair creation in flux-flow Josephson oscillators. <i>Physical Review B</i> , 1992, 46, 578-580.	1.1	29
88	Interlayer fluxon interaction in Josephson stacks. <i>Physical Review B</i> , 1996, 54, 6111-6114.	1.1	29
89	Properties of lateral Nb contacts to a two-dimensional electron gas in an $\text{In}_{0.77}\text{Ga}_{0.23}\text{As}/\text{InP}$ heterostructure. <i>Physical Review B</i> , 1996, 54, 17018-17028.	1.1	29
90	Observation of progressive motion of ac-driven solitons. <i>Physical Review B</i> , 2001, 64, .	1.1	29

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91	Quantitative evaluation of defect-models in superconducting phase qubits. Applied Physics Letters, 2010, 97, .	1.5	29
92	Readout of a qubit array via a single transmission line. Europhysics Letters, 2011, 96, 40012.	0.7	29
93	Magnetically induced transparency of a quantum metamaterial composed of twin flux qubits. Nature Communications, 2018, 9, 150.	5.8	29
94	Resolving the positions of defects in superconducting quantum bits. Scientific Reports, 2020, 10, 3090.	1.6	29
95	â€œSupersolitonâ€-excitations in inhomogeneous Josephson junctions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 136, 155-162.	0.9	28
96	On magnetic flux dynamics in 1D arrays of underdamped Josephson junctions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 183, 383-389.	0.9	28
97	Low-temperature scanning laser microscopy of individual filaments extracted from (Bi,â€Pb)2Sr2Ca2Cu3O10+x tapes. Applied Physics Letters, 2000, 76, 2597-2599.	1.5	28
98	Influence of LaAlO3 surface topography on rf current distribution in superconducting microwave devices. Applied Physics Letters, 2002, 81, 4979-4981.	1.5	28
99	Quantum escape of the phase in a strongly driven Josephson junction. Physical Review B, 2003, 68, .	1.1	28
100	Enhancement of Josephson Phase Diffusion by Microwaves. Physical Review Letters, 2004, 93, 087004.	2.9	28
101	Multiphoton spectroscopy of a hybrid quantum system. Physical Review B, 2010, 82, .	1.1	28
102	Waveguide bandgap engineering with an array of superconducting qubits. Npj Quantum Materials, 2021, 6, .	1.8	28
103	Photon Transport in a Bose-Hubbard Chain of Superconducting Artificial Atoms. Physical Review Letters, 2021, 126, 180503.	2.9	28
104	Thermoelectric ac Josephson effect in SNS junctions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 100, 301-303.	0.9	27
105	Fluxon pinning in annular Josephson junctions by an external magnetic field. Journal of Applied Physics, 1997, 81, 1335-1340.	1.1	27
106	Fabrication and measurements of hybrid Nb/Al Josephson junctions and flux qubits with $\langle i \rangle$ -shifters. Superconductor Science and Technology, 2015, 28, 025009.	1.8	27
107	Trapping of Several Solitons in Annular Josephson Junctions. Europhysics Letters, 1992, 19, 63-68.	0.7	26
108	Scanning laser imaging of dissipation in YBa2Cu3O7â€-coated conductors. Applied Physics Letters, 2004, 85, 2568-2570.	1.5	26

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109	reflection and strongly enhanced magnetoresistance oscillations in G_x		
110	Microscopic examination of hot spots giving rise to nonlinearity in superconducting resonators. Physical Review B, 2011, 84, .	1.1	25
111	One-dimensional Josephson junction arrays: Lifting the Coulomb blockade by depinning. Physical Review B, 2015, 92, .	1.1	25
112	Transmission-line resonators for the study of individual two-level tunneling systems. Applied Physics Letters, 2017, 111, .	1.5	25
113	Ferromagnet/Superconductor Hybrid Magnonic Metamaterials. Advanced Science, 2019, 6, 1900435.	5.6	25
114	Nondegenerate Parametric Amplifiers Based on Dispersion-Engineered Josephson-Junction Arrays. Physical Review Applied, 2020, 13, .	1.5	25
115	Imaging of one- and two-dimensional Fiske modes in Josephson tunnel junctions. Physical Review B, 1991, 44, 12463-12472.	1.1	24
116	Multi-fluxon effects in long Josephson junctions. IEEE Transactions on Applied Superconductivity, 1993, 3, 2287-2294.	1.1	24
117	Cherenkov Radiation from Fluxon in a Stack of Coupled Long Josephson Junctions. Journal of Low Temperature Physics, 2000, 119, 589-614.	0.6	24
118	Whispering Vortices. Physical Review Letters, 2000, 84, 151-154.	2.9	24
119	Local sensing with the multilevel ac Stark effect. Physical Review A, 2018, 97, .	1.0	24
120	Quantum technologies in Russia. Quantum Science and Technology, 2019, 4, 040501.	2.6	24
121	Approaching Deep-Strong On-Chip Photon-To-Magnon Coupling. Physical Review Applied, 2021, 16, .	1.5	24
122	Flux-flow induced Nernst effect in superconducting YBaCuO films. Physica C: Superconductivity and Its Applications, 1990, 167, 6-10.	0.6	23
123	Soliton bunching in annular Josephson junctions. Journal of Applied Physics, 1996, 79, 7854-7859.	1.1	23
124	Soliton trapping in a periodic potential: experiment. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 233, 239-244.	0.9	23
125	Dynamics of multiple-junction stacked flux-flow oscillators: Comparison between theory and experiment. Physical Review B, 1998, 58, 5777-5782.	1.1	23
126	Origin of flux-flow resistance oscillations in Bi ₂ Sr ₂ CaCu ₂ O _{8+y} : Possibility of Fiske steps in a single junction. Physical Review B, 2005, 72, .	1.1	23

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127	Introducing coherent time control to cavity magnon-polariton modes. Communications Physics, 2020, 3, .	2.0	23
128	Topological excitations and bound photon pairs in a superconducting quantum metamaterial. Physical Review B, 2021, 103, .	1.1	23
129	Pinning of a fluxon chain in a long Josephson junction with a lattice of inhomogeneities: Theory and experiment. Journal of Applied Physics, 1990, 67, 3791-3797.	1.1	22
130	Low-temperature scanning electron microscopy studies of superconducting thin films and Josephson junctions. Physica B: Condensed Matter, 1991, 169, 415-421.	1.3	22
131	Experimental study of the interaction between fluxon arrays in stacked Josephson junctions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 191, 443-448.	0.9	22
132	Broken Symmetry of Row Switching in 2D Josephson Junction Arrays. Physical Review Letters, 1999, 83, 5354-5357.	2.9	22
133	Resonances between fluxons and plasma waves in underdamped Josephson transmission lines of stripline geometry. Physical Review B, 2008, 77, .	1.1	22
134	Unconventional rf photoresponse from a superconducting spiral resonator. Physical Review B, 2012, 85, .	1.1	22
135	Interplay Between Kinetic Inductance, Nonlinearity, and Quasiparticle Dynamics in Granular Aluminum Microwave Kinetic Inductance Detectors. Physical Review Applied, 2019, 11, .	1.5	22
136	Implementation of a Transmon Qubit Using Superconducting Granular Aluminum. Physical Review X, 2020, 10, .	2.8	22
137	Hybrid quantum circuit with implanted erbium ions. Applied Physics Letters, 2014, 105, .	1.5	21
138	Electrodynamics of a ring-shaped spiral resonator. Journal of Applied Physics, 2014, 115, .	1.1	21
139	Dispersive Response of a Disordered Superconducting Quantum Metamaterial. Photonics, 2015, 2, 449-458.	0.9	21
140	Soliton dynamics in inhomogeneous Josephson junction: Theory and experiment. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 130, 107-110.	0.9	20
141	Current locking in magnetically coupled long Josephson junctions. Physical Review B, 1999, 59, 11532-11538.	1.1	20
142	Magnetic field penetration in a long Josephson junction imbedded in a wide stripline. Journal of Applied Physics, 2001, 89, 471-476.	1.1	20
143	Measurement of local reactive and resistive photoresponse of a superconducting microwave device. Applied Physics Letters, 2006, 88, 212503.	1.5	20
144	A superconducting 180° hybrid ring coupler for circuit quantum electrodynamics. Applied Physics Letters, 2010, 97, .	1.5	20

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145	Imaging the Anisotropic Nonlinear Meissner Effect in Nodal $YBa_2Cu_7O_{\hat{r}}$ Superconductors. Physical Review Letters, 2013, 110, 087002.	2.0	20
146	Probing the density of states of two-level tunneling systems in silicon oxide films using superconducting lumped element resonators. Applied Physics Letters, 2015, 106, 022603.	1.5	20
147	Modified dispersion law for spin waves coupled to a superconductor. Journal of Applied Physics, 2018, 124, .	1.1	20
148	Probing individual tunneling fluctuators with coherently controlled tunneling systems. Physical Review B, 2018, 97, .	1.1	20
149	Libration states of a nonlinear oscillator: Resonant escape of a pinned magnetic fluxon. Physical Review B, 2000, 63, .	1.1	19
150	Effect of LaAlO ₃ twin-domain topology on local dc and microwave properties of cuprate films. Journal of Applied Physics, 2010, 108, 033920.	1.1	19
151	Electronic decoherence of two-level systems in a Josephson junction. Physical Review B, 2017, 96, .	1.1	19
152	Coherent superconducting qubits from a subtractive junction fabrication process. Applied Physics Letters, 2020, 117, .	1.5	19
153	Magnons at low excitations: Observation of incoherent coupling to a bath of two-level systems. Physical Review Research, 2019, 1, .	1.3	19
154	Tunable phase locking of stacked Josephson fluxon oscillators. Applied Physics Letters, 1996, 68, 250-252.	1.5	18
155	Numerical analysis of the coherent radiation emission by two stacked Josephson fluxon oscillators. Journal of Applied Physics, 1996, 80, 6523-6535.	1.1	18
156	Narrow long Josephson junctions. IEEE Transactions on Applied Superconductivity, 1999, 9, 3957-3961.	1.1	18
157	Exploration of a rich variety of breather modes in Josephson ladders. Physical Review E, 2002, 66, 016603.	0.8	18
158	Imaging local sources of intermodulation in superconducting microwave devices. IEEE Transactions on Applied Superconductivity, 2003, 13, 340-343.	1.1	18
159	Mode Structure in Superconducting Metamaterial Transmission-Line Resonators. Physical Review Applied, 2019, 11, .	1.5	18
160	Splitting of the subgap resistance peak in superconductor/two-dimensional electron gas contacts at high magnetic fields. Physical Review B, 2000, 61, 12463-12466.	1.1	17
161	Testing a state preparation and read-out protocol for the vortex qubit. Physica C: Superconductivity and Its Applications, 2002, 368, 324-327.	0.6	17
162	Quantum sensors for microscopic tunneling systems. Npj Quantum Information, 2021, 7, .	2.8	17

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163	Quantum Nondemolition Dispersive Readout of a Superconducting Artificial Atom Using Large Photon Numbers. <i>Physical Review Applied</i> , 2021, 15, .	1.5	17
164	Fluxon chain commensurability effect in inhomogeneity lattice. <i>Solid State Communications</i> , 1988, 68, 693-695.	0.9	16
165	Observation of supersoliton resonances in the modulated annular Josephson junction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 168, 319-325.	0.9	16
166	Experiments with solitons in annular Josephson junctions. <i>Physica D: Nonlinear Phenomena</i> , 1993, 68, 41-44.	1.3	16
167	Magnetic flux quanta in annular Josephson junctions in a barrier-parallel de magnetic field. <i>Physical Review B</i> , 1996, 54, 14948-14951.	1.1	16
168	Cavity resonances in Josephson ladders. <i>Physical Review B</i> , 1999, 59, 14050-14053.	1.1	16
169	Andreev reflection and enhanced subgap conductance in NbN ⁺ Au ⁺ InGaAs ⁺ InP junctions. <i>Journal of Applied Physics</i> , 2004, 96, 3366-3370.	1.1	16
170	Vortex qubit based on an annular Josephson junction containing a microshort. <i>Physical Review B</i> , 2010, 81, .	1.1	16
171	An argon ion beam milling process for native AlOx layers enabling coherent superconducting contacts. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	16
172	Coherent oscillations of driven rf SQUID metamaterials. <i>Physical Review E</i> , 2017, 95, 050201.	0.8	16
173	Tunable coupling scheme for implementing two-qubit gates on fluxonium qubits. <i>Applied Physics Letters</i> , 2021, 119, 194001.	1.5	16
174	Observation of a radiation-induced soliton resonance in a Josephson ring. <i>JETP Letters</i> , 1996, 64, 191-196.	0.4	15
175	Josephson vortex interaction mediated by cavity modes: Tunable coupling for superconducting qubits. <i>Physical Review B</i> , 2003, 68, .	1.1	15
176	Resonant plasmon scattering by discrete breathers in Josephson junction ladders. <i>Physical Review B</i> , 2005, 71, .	1.1	15
177	Observation of a collective mode of an array of transmon qubits. <i>JETP Letters</i> , 2017, 105, 47-50.	0.4	15
178	Kondo-like transport and magnetic field effect of charge carrier fluctuations in granular aluminum oxide thin films. <i>Scientific Reports</i> , 2018, 8, 13892.	1.6	15
179	Dynamical decoupling of quantum two-level systems by coherent multiple Landau ⁺ Zener transitions. <i>Npj Quantum Information</i> , 2019, 5, .	2.8	15
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