Luigi Frunzio

List of Publications by Year
in descending order

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172 papers	21,633 citations	13099 68 h-index	8630 146 g-index
173 all docs	173 docs citations	173 times ranked	8323 citing authors

#	Article	IF	Citations
1	Strong coupling of a single photon to a superconducting qubit using circuit quantum electrodynamics. Nature, 2004, 431, 162-167.	27.8	3,195
2	Coupling superconducting qubits via a cavity bus. Nature, 2007, 449, 443-447.	27.8	1,109
3	Demonstration of two-qubit algorithms with a superconducting quantum processor. Nature, 2009, 460, 240-244.	27.8	923
4	Observation of High Coherence in Josephson Junction Qubits Measured in a Three-Dimensional Circuit QED Architecture. Physical Review Letters, 2011, 107, 240501.	7.8	830
5	Resolving photon number states in a superconducting circuit. Nature, 2007, 445, 515-518.	27.8	685
6	Extending the lifetime of a quantum bit with error correction in superconducting circuits. Nature, 2016, 536, 441-445.	27.8	603
7	Realization of three-qubit quantum error correction with superconducting circuits. Nature, 2012, 482, 382-385.	27.8	481
8	Preparation and measurement of three-qubit entanglement in a superconducting circuit. Nature, 2010, 467, 574-578.	27.8	476
9	Approaching Unit Visibility for Control of a Superconducting Qubit with Dispersive Readout. Physical Review Letters, 2005, 95, 060501.	7.8	456
10	Deterministically Encoding Quantum Information Using 100-Photon SchrÃ¶dinger Cat States. Science, 2013, 342, 607-610.	12.6	455
11	Suppressing charge noise decoherence in superconducting charge qubits. Physical Review B, 2008, 77, .	3.2	415
12	High-Cooperativity Coupling of Electron-Spin Ensembles to Superconducting Cavities. Physical Review Letters, 2010, 105, 140501.	7.8	398
13	Observation of quantum state collapse and revival due to the single-photon Kerr effect. Nature, 2013, 495, 205-209.	27.8	394
14	Generating single microwave photons in a circuit. Nature, 2007, 449, 328-331.	27.8	378
15	Phase-preserving amplification near the quantum limit with a Josephson ring modulator. Nature, 2010, 465, 64-68.	27.8	357
16	Confining the state of light to a quantum manifold by engineered two-photon loss. Science, 2015, 347, 853-857.	12.6	357
17	ac Stark Shift and Dephasing of a Superconducting Qubit Strongly Coupled to a Cavity Field. Physical Review Letters, 2005, 94, 123602.	7.8	351
18	Controlling the Spontaneous Emission of a Superconducting Transmon Qubit. Physical Review Letters, 2008, 101, 080502.	7.8	336

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19	Observation of Berry's Phase in a Solid-State Qubit. Science, 2007, 318, 1889-1892.	12.6	321
20	RF-Driven Josephson Bifurcation Amplifier for Quantum Measurement. Physical Review Letters, 2004, 93, 207002.	7.8	295
21	Quantum acoustics with superconducting qubits. Science, 2017, 358, 199-202.	12.6	284
22	Qubit-photon interactions in a cavity: Measurement-induced dephasing and number splitting. Physical Review A, 2006, 74, .	2.5	281
23	Autonomously stabilized entanglement between two superconducting quantum bits. Nature, 2013, 504, 419-422.	27.8	267
24	A SchrÃ¶dinger cat living in two boxes. Science, 2016, 352, 1087-1091.	12.6	244
25	Quantum memory with millisecond coherence in circuit QED. Physical Review B, 2016, 94, .	3.2	237
26	Quantum non-demolition detection of single microwave photons in a circuit. Nature Physics, 2010, 6, 663-667.	16.7	233
27	Quantum error correction of a qubit encoded in grid states of an oscillator. Nature, 2020, 584, 368-372.	27.8	232
28	Black-Box Superconducting Circuit Quantization. Physical Review Letters, 2012, 108, 240502.	7.8	226
29	High-Fidelity Readout in Circuit Quantum Electrodynamics Using the Jaynes-Cummings Nonlinearity. Physical Review Letters, 2010, 105, 173601.	7.8	218
30	Quantum Back-Action of an Individual Variable-Strength Measurement. Science, 2013, 339, 178-181.	12.6	215
31	Fast reset and suppressing spontaneous emission of a superconducting qubit. Applied Physics Letters, 2010, 96, .	3.3	200
32	Tracking photon jumps with repeated quantum non-demolition parity measurements. Nature, 2014, 511, 444-448.	27.8	195
33	Implementing a universal gate set on a logical qubit encoded in an oscillator. Nature Communications, 2017, 8, 94.	12.8	183
34	Randomized Benchmarking and Process Tomography for Gate Errors in a Solid-State Qubit. Physical Review Letters, 2009, 102, 090502.	7.8	179
35	Creation and control of multi-phonon Fock states in a bulk acoustic-wave resonator. Nature, 2018, 563, 666-670.	27.8	176
36	Surface participation and dielectric loss in superconducting qubits. Applied Physics Letters, 2015, 107, .	3.3	170

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37	Reaching 10â€‰ms single photon lifetimes for superconducting aluminum cavities. Applied Physics Letters, 2013, 102, .	3.3	168
38	Reconfigurable Josephson Circulator/Directional Amplifier. Physical Review X, 2015, 5, .	8.9	167
39	Tunable superconducting nanoinductors. Nanotechnology, 2010, 21, 445202.	2.6	157
40	Deterministic teleportation of a quantum gate between two logical qubits. Nature, 2018, 561, 368-373.	27.8	154
41	Demonstrating a Driven Reset Protocol for a Superconducting Qubit. Physical Review Letters, 2013, 110, 120501.	7.8	147
42	Optimized driving of superconducting artificial atoms for improved single-qubit gates. Physical Review A, 2010, 82, .	2.5	144
43	Direct Observation of Dynamical Bifurcation between Two Driven Oscillation States of a Josephson Junction. Physical Review Letters, 2005, 94, 027005.	7.8	143
44	On-demand quantum state transfer and entanglement between remote microwave cavity memories. Nature Physics, 2018, 14, 705-710.	16.7	143
45	Fabrication and Characterization of Superconducting Circuit QED Devices for Quantum Computation. IEEE Transactions on Applied Superconductivity, 2005, 15, 860-863.	1.7	142
46	Measurement and control of quasiparticle dynamics in a superconducting qubit. Nature Communications, 2014, 5, 5836.	12.8	130
47	Dispersive measurements of superconducting qubit coherence with a fast latching readout. Physical Review B, 2006, 73, .	3.2	125
48	Cavity State Manipulation Using Photon-Number Selective Phase Gates. Physical Review Letters, 2015, 115, 137002.	7.8	121
49	Multilayer microwave integrated quantum circuits for scalable quantum computing. Npj Quantum Information, 2016, 2, .	6.7	121
50	Quasiparticle Relaxation of Superconducting Qubits in the Presence of Flux. Physical Review Letters, 2011, 106, 077002.	7.8	119
51	Hot Nonequilibrium Quasiparticles in Transmon Qubits. Physical Review Letters, 2018, 121, 157701.	7.8	114
52	Fault-tolerant detection of a quantum error. Science, 2018, 361, 266-270.	12.6	113
53	Deterministic Remote Entanglement of Superconducting Circuits through Microwave Two-Photon Transitions. Physical Review Letters, 2018, 120, 200501.	7.8	105
54	Controlled release of multiphoton quantum states from a microwave cavity memory. Nature Physics, 2017, 13, 882-887.	16.7	101

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55	Non-Poissonian Quantum Jumps of a Fluxonium Qubit due to Quasiparticle Excitations. Physical Review Letters, 2014, 113, 247001.	7.8	98
56	Photon shot noise dephasing in the strong-dispersive limit of circuit QED. Physical Review B, 2012, 86, .	3.2	95
57	A CNOT gate between multiphoton qubits encoded in two cavities. Nature Communications, 2018, 9, 652.	12.8	95
58	Reset dynamics and latching in niobium superconducting nanowire single-photon detectors. Journal of Applied Physics, 2010, 108, 084507.	2.5	88
59	Entanglement of bosonic modes through an engineered exchange interaction. Nature, 2019, 566, 509-512.	27.8	88
60	Sideband Transitions and Two-Tone Spectroscopy of a Superconducting Qubit Strongly Coupled to an On-Chip Cavity. Physical Review Letters, 2007, 99, 050501.	7.8	86
61	Detecting highly entangled states with a joint qubit readout. Physical Review A, 2010, 81, .	2.5	82
62	Robust Concurrent Remote Entanglement Between Two Superconducting Qubits. Physical Review X, 2016, 6, .	8.9	82
63	Measurements of Quasiparticle Tunneling Dynamics in a Band-Gap-Engineered Transmon Qubit. Physical Review Letters, 2012, 108, 230509.	7.8	78
64	Improving the quality factor of microwave compact resonators by optimizing their geometrical parameters. Applied Physics Letters, 2012, 100, .	3.3	78
65	Josephson Directional Amplifier for Quantum Measurement of Superconducting Circuits. Physical Review Letters, 2014, 112, 167701.	7.8	78
66	Coherent Oscillations inside a Quantum Manifold Stabilized by Dissipation. Physical Review X, 2018, 8, .	8.9	73
67	Gated Conditional Displacement Readout of Superconducting Qubits. Physical Review Letters, 2019, 122, 080502.	7.8	73
68	Efficient Multiphoton Sampling of Molecular Vibronic Spectra on a Superconducting Bosonic Processor. Physical Review X, 2020, 10, .	8.9	73
69	Directional Amplification with a Josephson Circuit. Physical Review X, 2013, 3, .	8.9	67
70	Direct Dispersive Monitoring of Charge Parity in Offset-Charge-Sensitive Transmons. Physical Review Applied, 2019, 12, .	3.8	66
71	Single-Photon-Resolved Cross-Kerr Interaction for Autonomous Stabilization of Photon-Number States. Physical Review Letters, 2015, 115, 180501.	7.8	63
72	Measuring the decoherence of a quantronium qubit with the cavity bifurcation amplifier. Physical Review B, 2007, 76, .	3.2	58

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73	Programmable Interference between Two Microwave Quantum Memories. Physical Review X, 2018, 8, .	8.9	56
74	Full Coherent Frequency Conversion between Two Propagating Microwave Modes. Physical Review Letters, 2013, 110, 173902.	7.8	55
75	An architecture for integrating planar and 3D cQED devices. Applied Physics Letters, 2016, 109, .	3.3	55
76	Time-Resolved Measurements of Thermodynamic Fluctuations of the Particle Number in a Nondegenerate Fermi Gas. Physical Review Letters, 2001, 87, 067004.	7.8	52
77	Error-corrected gates on an encoded qubit. Nature Physics, 2020, 16, 822-826.	16.7	50
78	Comparing and Combining Measurement-Based and Driven-Dissipative Entanglement Stabilization. Physical Review X, 2016, 6, .	8.9	47
79	Characterizing entanglement of an artificial atom and a cavity cat state with Bellâ€™s inequality. Nature Communications, 2015, 6, 8970.	12.8	46
80	High-Fidelity Measurement of Qubits Encoded in Multilevel Superconducting Circuits. Physical Review X, 2020, 10, .	8.9	45
81	Two-Mode Correlation of Microwave Quantum Noise Generated by Parametric Down-Conversion. Physical Review Letters, 2012, 108, 123902.	7.8	41
82	Demonstration of superconducting micromachined cavities. Applied Physics Letters, 2015, 107, .	3.3	39
83	Niobium Superconducting Nanowire Single-Photon Detectors. IEEE Transactions on Applied Superconductivity, 2009, 19, 327-331.	1.7	36
84	Investigation of lowâ€temperatureIâ€Vcurves of highâ€quality Nb/Alâ€AlOx/Nb Josephson junctions. Journal of Applied Physics, 1992, 71, 1888-1892.	2.5	35
85	Continuous Quantum Nondemolition Measurement of the Transverse Component of a Qubit. Physical Review Letters, 2016, 117, 133601.	7.8	35
86	Suspending superconducting qubits by silicon micromachining. Applied Physics Letters, 2016, 109, .	3.3	34
87	Error-Detected State Transfer and Entanglement in a Superconducting Quantum Network. PRX Quantum, 2021, 2, .	9.2	34
88	A New Fabrication Process of Superconducting Nb Tunnel Junctions with Ultralow Leakage Current for X-Ray Detection. Japanese Journal of Applied Physics, 1993, 32, 4535-4537.	1.5	33
89	Fluxonium-Based Artificial Molecule with a Tunable Magnetic Moment. Physical Review X, 2017, 7, .	8.9	32
90	Noise mechanisms in superconducting tunnel-junction detectors. Applied Physics Letters, 2000, 76, 3998-4000.	3.3	30

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91	Quantization of inductively shunted superconducting circuits. Physical Review B, 2016, 94, .	3.2	30
92	Planar Multilayer Circuit Quantum Electrodynamics. Physical Review Applied, 2016, 5, .	3.8	30
93	Energy resolution of terahertz single-photon-sensitive bolometric detectors. Applied Physics Letters, 2010, 96, .	3.3	28
94	Improved energy resolution of x-ray single photon imaging spectrometers using superconducting tunnel junctions. Journal of Applied Physics, 2001, 90, 3645-3647.	2.5	27
95	Implementing and Characterizing Precise Multiqubit Measurements. Physical Review X, 2016, 6, .	8.9	27
96	High coherence superconducting microwave cavities with indium bump bonding. Applied Physics Letters, 2020, 116, .	3.3	27
97	Switching dynamics of Nb/AlOx/Nb Josephson junctions: Measurements for an experiment of macroscopic quantum coherence. Journal of Applied Physics, 1996, 80, 2922-2928.	2.5	26
98	Quasiparticle nonequilibrium dynamics in a superconducting Ta film. Journal of Applied Physics, 2003, 93, 1137-1141.	2.5	22
99	Micromachined Integrated Quantum Circuit Containing a Superconducting Qubit. Physical Review Applied, 2017, 7, .	3.8	21
100	Simultaneous Monitoring of Fluxonium Qubits in a Waveguide. Physical Review Applied, 2018, 9, .	3.8	21
101	Optical/UV single-photon imaging spectrometers using superconducting tunnel junctions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 444, 449-452.	1.6	20
102	Investigation of subgap structures in high-quality Nb/AlOx/Nb tunnel junctions. Physical Review B, 1994, 49, 429-440.	3.2	19
103	Magnetic properties of annular Josephson junctions for radiation detection: Experimental results. Applied Physics Letters, 1999, 74, 3389-3391.	3.3	19
104	Dynamics and energy distribution of nonequilibrium quasiparticles in superconducting tunnel junctions. Physical Review B, 2004, 70, .	3.2	19
105	Driving Forbidden Transitions in the Fluxonium Artificial Atom. Physical Review Applied, 2018, 9, .	3.8	19
106	Quasiparticle diffusion, edge losses, and back-tunneling in superconducting tunnel junctions under x-ray irradiation. Journal of Applied Physics, 1999, 86, 4580-4587.	2.5	18
107	Nbâ€based Josephson junction devices for nuclear radiation detection: Design and preliminary experimental results. Journal of Applied Physics, 1994, 75, 5210-5217.	2.5	17
108	Effect of intense proton irradiation on properties of Josephson devices. IEEE Transactions on Applied Superconductivity, 1997, 7, 2917-2920.	1.7	15

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109	X-ray single photon 1-D imaging spectrometers. IEEE Transactions on Applied Superconductivity, 2001, 11, 685-687.	1.7	15
110	Free-standing silicon shadow masks for transmon qubit fabrication. AIP Advances, 2020, 10, .	1.3	14
111	The effective dissipation in Nb/AlOx/Nb Josephson tunnel junctions by return current measurements. Journal of Applied Physics, 1997, 81, 7418-7426.	2.5	12
112	Traversal Time as Deduced from Decay Time Measurements in Josephson Junctions. Physica Scripta, 1998, 58, 538-542.	2.5	11
113	A far-infrared Fourier transform spectrometer with an antenna-coupled niobium bolometer. Superconductor Science and Technology, 2007, 20, S398-S402.	3.5	11
114	Wireless Josephson amplifier. Applied Physics Letters, 2014, 104, .	3.3	11
115	Superconductive tunnel junction detectors: ten years ago, ten years from now. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 370, 26-30.	1.6	10
116	On the magnetic field dependence of the critical current in small irregular polygonal Josephson junctions. Journal of Applied Physics, 1996, 80, 3401-3407.	2.5	9
117	Experimental estimation of the hot spot size in Nb-based Josephson tunnel junctions using Abrikosov vortices. Journal of Applied Physics, 1997, 82, 5024-5029.	2.5	9
118	Detection of single x-ray photons by an annular superconducting tunnel junction. Applied Physics Letters, 2001, 79, 2103-2105.	3.3	9
119	Superconducting tunnel junction detectors for extreme ultraviolet applications. IEEE Transactions on Applied Superconductivity, 2003, 13, 1120-1123.	1.7	9
120	Niobium Hot Electron Bolometer Development for a Submillimeter Heterodyne Array Camera. IEEE Transactions on Applied Superconductivity, 2007, 17, 403-406.	1.7	9
121	Single-shot number-resolved detection of microwave photons with error mitigation. Physical Review A, 2021, 103, .	2.5	9
122	Direct measurements of relaxation time scales in Josephson junctions. Solid State Communications, 1996, 97, 439-444.	1.9	8
123	Traversal Time in Josephson Junctions. Journal of Superconductivity and Novel Magnetism, 1999, 12, 829-833.	0.5	8
124	A new noise source in superconducting tunnel junction photon detectors. IEEE Transactions on Applied Superconductivity, 2001, 11, 645-648.	1.7	8
125	Diffusion-engineered single-photon spectrometer for UV/visible detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 520, 237-239.	1.6	8
126	Superconducting niobium nanowire single photon detectors. , 2006, 6372, 239.		8

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127	Ultrasensitive Quantum-Limited Far-Infrared STJ Detectors. IEEE Transactions on Applied Superconductivity, 2007, 17, 241-245.	1.7	8
128	Observation of subgap structures in high-quality Nb/Al-AlOx/Nb Josephson tunnel junctions. Journal of Superconductivity and Novel Magnetism, 1992, 5, 451-455.	0.5	7
129	Radiation Hardness of Josephson Devices. Japanese Journal of Applied Physics, 1998, 37, 40.	1.5	7
130	Quasiparticle diffusion and edge losses in superconducting tunnel junction detectors with two active electrodes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 444, 15-18.	1.6	7
131	Influence of a NbN overlayer on Nb/Alâ€“AlOx/Nb high quality Josephson tunnel junctions for xâ€ray detection. Applied Physics Letters, 1995, 67, 3340-3342.	3.3	6
132	Quasiparticle dynamics and a new, high-resolution readout of STJ photon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 559, 676-679.	1.6	6
133	X-ray detection by Nb STJs above 1.4 K. Journal of Low Temperature Physics, 1993, 93, 691-696.	1.4	5
134	Frequency-tunable Kerr-free three-wave mixing with a gradiometric SNAIL. Applied Physics Letters, 2022, 120, .	3.3	5
135	Enhancing the Energy Resolution of a Singles Photon STJ Spectrometer Using Diffusion Engineering. IEEE Transactions on Applied Superconductivity, 2007, 17, 324-327.	1.7	4
136	BCS quasi-particle tunnelling current in Josephson tunnel junctions. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1992, 14, 395-410.	0.4	3
137	Single-photon 2-D imaging X-ray spectrometer employing trapping with four tunnel junctions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 444, 228-231.	1.6	3
138	Spatial uniformity of single photon 1-D imaging detectors using superconducting tunnel junctions. , 2002, , .		3
139	Physical properties of the superconducting Ta film absorber of an X-ray photon detector. IEEE Transactions on Applied Superconductivity, 2003, 13, 1124-1127.	1.7	3
140	Mesoscopic resistor as a self-calibrating quantum noise source. Applied Physics Letters, 2012, 100, 203507.	3.3	3
141	Aluminum Superconducting Tunnel Junction as X-ray detector: Technological aspects and phonon decoupling from the substrate. , 2002, , .		2
142	Diffusion-Engineered Quasiparticle Multiplication for STJ Single Photon Detectors. IEEE Transactions on Applied Superconductivity, 2005, 15, 609-612.	1.7	2
143	Quantum Information Processing with Superconducting Qubits and Cavities. , 2007, , .		2
144	Publisherâ€™s Note: Randomized Benchmarking and Process Tomography for Gate Errors in a Solid-State Qubit [Phys. Rev. Lett.102, 090502 (2009)]. Physical Review Letters, 2009, 102, .	7.8	2

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145	The Josephson Bifurcation Amplifier for Quantum Measurements. , 2006, , 28-37.		2
146	Ac losses in ï¬eld-cooled type I superconducting cavities. Superconductor Science and Technology, 0, , .	3.5	2
147	High quality Nb-based junctions for superconductive detectors. Nuclear Physics, Section B, Proceedings Supplements, 1993, 32, 300-306.	0.4	1
148	High-resolution energy spectroscopy and superconductive Tunnel Junction. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1993, 16, 735-742.	0.2	1
149	Set up of a nuclear radiation experiment with superconducting tunnel junctions in a compact3He cryostat. Cryogenics, 1994, 34, 243-246.	1.7	1
150	X ray response of STJs detectors with different trapping layers: Preliminary results. Nuclear Physics, Section B, Proceedings Supplements, 1995, 44, 682-687.	0.4	1
151	Sidelobe suppression in arbitrarity shaped quadrangle Josephson junctions. Journal of Low Temperature Physics, 1997, 106, 359-364.	1.4	1
152	Proton damage on Nb-based Josephson junctions. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1397-1404.	0.4	1
153	Development of radiation-hard particle detectors using Josephson tunnel junctions. Nuclear Physics, Section B, Proceedings Supplements, 1998, 61, 570-575.	0.4	1
154	Abrikosov Monopole Vortices and Their Images in a Circular Josephson Tunnel Junction. International Journal of Modern Physics B, 1999, 13, 1265-1270.	2.0	1
155	Annular Josephson junctions for radiation detection: fabrication and investigation of the magnetic behaviour. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 444, 476-479.	1.6	1
156	Annular superconducting tunnel junction detectors: Experimental results under X-ray illumination. , 2002, , .		1
157	Approaching intrinsic resolution limits in optical/UV superconducting tunnel junction detectors. , 2002, , .		1
158	Superconducting microbolometers for time-resolved terahertz spectroscopy. , 2007, , .		1
159	Characterization of Terahertz Single-Photon-Sensitive Bolometric Detectors Using a Pulsed Microwave Technique. , 2009, , .		1
160	RETICULA: Real-time code quality assessment. , 2018, , .		1
161	X-ray response of Nb-based superconducting tunnel junction. European Physical Journal Special Topics, 1998, 08, Pr3-275-Pr3-278.	0.2	1
162	Sweep rate effects and quantum energy levels in Josephson junctions. Physica B: Condensed Matter, 1990, 165-166, 947-948.	2.7	0

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163	Thermodynamic properties of low-Tcand high-Tcsuperconducting barrier junction (S-Sâ€™-Ssystem) in a magnetic field. Physical Review B, 1991, 44, 805-808.	3.2	0
164	Two-particle structures in high quality Nb/AlOx/Nb Josephson tunnel junctions. Physica B: Condensed Matter, 1994, 194-196, 1681-1682.	2.7	0
165	Estimation of Î±-particle induced hot spot size in Nb film using Abrikosov vortices. European Physical Journal D, 1996, 46, 2881-2882.	0.4	0
166	Investigation of Fiske steps of a josephson tunnel junction with trapped Abrikosov vortices. European Physical Journal D, 1996, 46, 685-686.	0.4	0
167	X-ray response of STJ detectors using NbN absorbing layers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 370, 95-97.	1.6	0
168	Fabrication of high-quality Josephson junctions for applications as particle detectors. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1405-1409.	0.4	0
169	A hotspot size estimate technique by using Abrikosov vortices in Josephson tunnel junctions. Applied Superconductivity, 1998, 6, 331-335.	0.5	0
170	Effects of Quasiparticle Diffusion in Nb-Based Superconducting Tunnel Junctions Under X-Rays Irradiation. International Journal of Modern Physics B, 1999, 13, 1247-1252.	2.0	0
171	SOME ASPECTS OF SUPERCONDUCTIVE JUNCTION RADIATION DETECTORS. , 2000, , .		0
172	Demonstration of Two-Qubit Quantum Algorithms with a Solid-State Electronic Processor. , 2009, , .		0