

# Alexey Ustinov

## List of Publications by Citations

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348  
papers

8,069  
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45  
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72  
g-index

369  
ext. papers

9,138  
ext. citations

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L-index

#	Paper	IF	Citations
348	Observation of breathers in Josephson ladders. <i>Physical Review Letters</i> , <b>2000</b> , 84, 745-8	7.4	321
347	Classical analogue of electromagnetically induced transparency with a metal-superconductor hybrid metamaterial. <i>Physical Review Letters</i> , <b>2011</b> , 107, 043901	7.4	206
346	Solitons in Josephson junctions. <i>Physica D: Nonlinear Phenomena</i> , <b>1998</b> , 123, 315-329	3.3	189
345	Solid-state qubits with current-controlled coupling. <i>Science</i> , <b>2006</b> , 314, 1427-9	33.3	166
344	Implementation of superconductor/ferromagnet/ superconductor $\mathbb{E}$ shifters in superconducting digital and quantum circuits. <i>Nature Physics</i> , <b>2010</b> , 6, 593-597	16.2	154
343	Theory and experiment on electromagnetic-wave-propagation velocities in stacked superconducting tunnel structures. <i>Physical Review B</i> , <b>1994</b> , 50, 12905-12914	3.3	149
342	Anisotropic rare-earth spin ensemble strongly coupled to a superconducting resonator. <i>Physical Review Letters</i> , <b>2013</b> , 110, 157001	7.4	148
341	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> , <b>1997</b> , 79, 1365-1368	7.4	141
340	Quantum dynamics of a single vortex. <i>Nature</i> , <b>2003</b> , 425, 155-8	50.4	137
339	Josephson behavior of phase-slip lines in wide superconducting strips. <i>Physical Review Letters</i> , <b>2003</b> , 91, 267001	7.4	133
338	Fluxon dynamics in one-dimensional Josephson-junction arrays. <i>Physical Review B</i> , <b>1993</b> , 47, 8357-8360	3.3	133
337	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> , <b>2006</b> , 96, 177003	7.4	125
336	Ratchetlike dynamics of fluxons in annular Josephson junctions driven by biharmonic microwave fields. <i>Physical Review Letters</i> , <b>2004</b> , 93, 087001	7.4	110
335	Implementation of a quantum metamaterial using superconducting qubits. <i>Nature Communications</i> , <b>2014</b> , 5, 5146	17.4	106
334	Progress in superconducting metamaterials. <i>Superconductor Science and Technology</i> , <b>2014</b> , 27, 073001	3.1	103
333	Rapid single-flux quantum logic using $\mathbb{E}$ shifters. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 5405	2.5	99
332	Coupled fluxon modes in stacked Nb/AlOx/Nb long Josephson junctions. <i>Physical Review B</i> , <b>1993</b> , 48, 10614-10617	3.3	97

331	Dynamics of sine-Gordon solitons in the annular Josephson junction. <i>Physical Review Letters</i> , <b>1992</b> , 69, 1815-1818	7.4	90
330	Multiphoton transitions between energy levels in a current-biased Josephson tunnel junction. <i>Physical Review Letters</i> , <b>2003</b> , 90, 037003	7.4	87
329	Analog quantum simulation of the Rabi model in the ultra-strong coupling regime. <i>Nature Communications</i> , <b>2017</b> , 8, 779	17.4	82
328	Strain tuning of individual atomic tunneling systems detected by a superconducting qubit. <i>Science</i> , <b>2012</b> , 338, 232-4	33.3	79
327	Ultralow-power spectroscopy of a rare-earth spin ensemble using a superconducting resonator. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	79
326	Observation of directly interacting coherent two-level systems in an amorphous material. <i>Nature Communications</i> , <b>2015</b> , 6, 6182	17.4	77
325	Self-pumping effects and radiation linewidth of Josephson flux-flow oscillators. <i>Physical Review B</i> , <b>1997</b> , 56, 5572-5577	3.3	77
324	Efficient and robust analysis of complex scattering data under noise in microwave resonators. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 024706	1.7	75
323	Nernst effect in superconducting Y-Ba-Cu-O. <i>Physical Review Letters</i> , <b>1990</b> , 64, 3195-3198	7.4	75
322	Tunability of Superconducting Metamaterials. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2007</b> , 17, 918-921	1.8	66
321	Experimental and numerical study of dynamic regimes in a discrete sine-Gordon lattice. <i>Physical Review B</i> , <b>1995</b> , 51, 3081-3091	3.3	65
320	Static and dynamic properties of 0, $\pi$ and 0 $\pi$ ferromagnetic Josephson tunnel junctions. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	61
319	Fluxon insertion into annular Josephson junctions. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 3153-3155	3.4	61
318	Seebeck effect in the mixed state of high-Tc superconductors. <i>Physical Review B</i> , <b>1990</b> , 42, 4831-4833	3.3	61
317	Detection of 0.5THz radiation from intrinsic Bi2Sr2CaCu2O8 Josephson junctions. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 262504	3.4	60
316	Cherenkov radiation in coupled long Josephson junctions. <i>Physical Review B</i> , <b>1998</b> , 57, 130-133	3.3	59
315	Loss Mechanisms and Quasiparticle Dynamics in Superconducting Microwave Resonators Made of Thin-Film Granular Aluminum. <i>Physical Review Letters</i> , <b>2018</b> , 121, 117001	7.4	59
314	Measuring the temperature dependence of individual two-level systems by direct coherent control. <i>Physical Review Letters</i> , <b>2010</b> , 105, 230504	7.4	57

313	Submillimeter-band high-power generation using multilayered Josephson junctions. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 686-688	3-4	56
312	Correlating Decoherence in Transmon Qubits: Low Frequency Noise by Single Fluctuators. <i>Physical Review Letters</i> , <b>2019</b> , 123, 190502	7-4	51
311	Switching current measurements of large area Josephson tunnel junctions. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 3740-3748	1-7	51
310	Frequency division multiplexing readout and simultaneous manipulation of an array of flux qubits. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 042604	3-4	50
309	Low-loss tunable metamaterials using superconducting circuits with Josephson junctions. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 062601	3-4	48
308	Multistability and switching in a superconducting metamaterial. <i>Nature Communications</i> , <b>2014</b> , 5, 3730	17-4	47
307	Fluxons in Josephson transmission lines: new developments. <i>Superconductor Science and Technology</i> , <b>1995</b> , 8, 389-401	3-1	47
306	Possible phase locking of vertically stacked Josephson flux-flow oscillators. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 1457-1459	3-4	47
305	Temperature dependence of coherent oscillations in Josephson phase qubits. <i>Physical Review Letters</i> , <b>2007</b> , 99, 170504	7-4	46
304	Granular aluminium as a superconducting material for high-impedance quantum circuits. <i>Nature Materials</i> , <b>2019</b> , 18, 816-819	27	45
303	Circuit quantum electrodynamics of granular aluminum resonators. <i>Nature Communications</i> , <b>2018</b> , 9, 3889	17-4	45
302	Fluxon readout of a superconducting qubit. <i>Physical Review Letters</i> , <b>2014</b> , 112, 160502	7-4	44
301	Giant Radiation Linewidth of Multifluxon States in Long Josephson Junctions. <i>Physical Review Letters</i> , <b>1996</b> , 77, 3617-3620	7-4	44
300	Laser scanning microscopy of HTS films and devices (Review Article). <i>Low Temperature Physics</i> , <b>2006</b> , 32, 592-607	0-7	43
299	Annular Long Josephson Junctions in a Magnetic Field: Engineering and Probing the Fluxon Interaction Potential. <i>Journal of Low Temperature Physics</i> , <b>2000</b> , 118, 543-553	1-3	43
298	Improved powder filters for qubit measurements. <i>Review of Scientific Instruments</i> , <b>2008</b> , 79, 014701	1-7	42
297	Imaging of discrete breathers. <i>Chaos</i> , <b>2003</b> , 13, 716-24	3-3	42
296	A one-dimensional tunable magnetic metamaterial. <i>Optics Express</i> , <b>2013</b> , 21, 22540-8	3-3	41

295	Microwave multimode memory with an erbium spin ensemble. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	40
294	Phase-locked flux-flow Josephson oscillator. <i>Journal of Applied Physics</i> , <b>1992</b> , 72, 1203-1205	2.5	39
293	Switching nonlinearity in a superconductor-enhanced metamaterial. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 121906	3.4	37
292	Coherent oscillations in a superconducting tunable flux qubit manipulated without microwaves. <i>New Journal of Physics</i> , <b>2009</b> , 11, 013009	2.9	37
291	Creation of classical and quantum fluxons by a current dipole in a long Josephson junction. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	37
290	Josephson Vortex Qubit: Design, Preparation and Read-Out. <i>Physica Status Solidi (B): Basic Research</i> , <b>2002</b> , 233, 472-481	1.3	35
289	Observation of soliton fusion in a Josephson array. <i>Physical Review Letters</i> , <b>2006</b> , 96, 034103	7.4	34
288	Diversity of discrete breathers observed in a Josephson ladder. <i>Physical Review E</i> , <b>2000</b> , 62, 2858-62	2.4	34
287	Bunched fluxon states in one-dimensional Josephson-junction arrays. <i>Physical Review B</i> , <b>1998</b> , 57, 11691-11697	3.4	34
286	Multiphoton dressing of an anharmonic superconducting many-level quantum circuit. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	33
285	Three-dimensional cavity quantum electrodynamics with a rare-earth spin ensemble. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	33
284	Numerical study of fluxon dynamics in a system of two-stacked Josephson junctions. <i>Journal of Applied Physics</i> , <b>1995</b> , 77, 1171-1177	2.5	33
283	Decoherence spectroscopy with individual two-level tunneling defects. <i>Scientific Reports</i> , <b>2016</b> , 6, 23786	4.9	33
282	Aluminium-oxide wires for superconducting high kinetic inductance circuits. <i>Superconductor Science and Technology</i> , <b>2017</b> , 30, 025002	3.1	32
281	Superconducting RF Metamaterials Made With Magnetically Active Planar Spirals. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2011</b> , 21, 709-712	1.8	32
280	Experimental evidence for supersoliton modes in a long modulated Josephson junction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1989</b> , 139, 481-484	2.3	31
279	Rabi spectroscopy of a qubit-fluctuator system. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	30
278	Radiation linewidth of a long Josephson junction in the flux-flow regime. <i>Physical Review B</i> , <b>1996</b> , 54, 3047-3050	3.3	30

277	Resonance interaction between fluxon and plasma waves in long Josephson junction. <i>IEEE Transactions on Magnetics</i> , <b>1987</b> , 23, 781-784	2	30
276	Electric field spectroscopy of material defects in transmon qubits. <i>Npj Quantum Information</i> , <b>2019</b> , 5,	8.6	30
275	Observation of progressive motion of ac-driven solitons. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	29
274	Super-relativistic fluxon in a Josephson multilayer: Experiment and simulation. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	29
273	Quantum simulation of the spin-boson model with a microwave circuit. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	29
272	Properties of lateral Nb contacts to a two-dimensional electron gas in an In <sub>0.77</sub> Ga <sub>0.23</sub> As/InP heterostructure. <i>Physical Review B</i> , <b>1996</b> , 54, 17018-17028	3.3	28
271	Millimeter-wave-induced fluxon pair creation in flux-flow Josephson oscillators. <i>Physical Review B</i> , <b>1992</b> , 46, 578-580	3.3	28
270	Supersoliton excitations in inhomogeneous Josephson junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1989</b> , 136, 155-162	2.3	28
269	Super-radiant multifluxon dynamics in a system of parallel-coupled Josephson junctions. <i>Physical Review B</i> , <b>1990</b> , 41, 254-258	3.3	28
268	Quantitative evaluation of defect-models in superconducting phase qubits. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 252501	3.4	27
267	Multiphoton spectroscopy of a hybrid quantum system. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	27
266	Influence of LaAlO <sub>3</sub> surface topography on rf current distribution in superconducting microwave devices. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4979-4981	3.4	27
265	Low-temperature scanning laser microscopy of individual filaments extracted from (Bi, Pb) <sub>2</sub> Sr <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>10+x</sub> tapes. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 2597-2599	3.4	27
264	Interlayer fluxon interaction in Josephson stacks. <i>Physical Review B</i> , <b>1996</b> , 54, 6111-6114	3.3	27
263	Thermoelectric ac Josephson effect in SNS junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1984</b> , 100, 301-303	2.3	27
262	Charge quantum interference device. <i>Nature Physics</i> , <b>2018</b> , 14, 590-594	16.2	26
261	Strong coupling of an Er <sup>3+</sup> -doped YAlO <sub>3</sub> crystal to a superconducting resonator. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	26
260	Quantum dissociation of a vortex-antivortex pair in a long Josephson junction. <i>Physical Review Letters</i> , <b>2003</b> , 91, 257004	7.4	26

259	Quantum escape of the phase in a strongly driven Josephson junction. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	26
258	Trapping of Several Solitons in Annular Josephson Junctions. <i>Europhysics Letters</i> , <b>1992</b> , 19, 63-68	1.6	26
257	On magnetic flux dynamics in 1D arrays of underdamped Josephson junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1993</b> , 183, 383-389	2.3	26
256	Ferromagnet/Superconductor Hybridization for Magnonic Applications. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802375	15.6	25
255	Readout of a qubit array via a single transmission line. <i>Europhysics Letters</i> , <b>2011</b> , 96, 40012	1.6	25
254	Scanning laser imaging of dissipation in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> coated conductors. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2568-2570	3.4	25
253	Fluxon pinning in annular Josephson junctions by an external magnetic field. <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 1335-1340	2.5	24
252	Cherenkov Radiation from Fluxon in a Stack of Coupled Long Josephson Junctions. <i>Journal of Low Temperature Physics</i> , <b>2000</b> , 119, 589-614	1.3	24
251	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1993</b> , 3, 2287-2294	1.8	24
250	Concentric transmon qubit featuring fast tunability and an anisotropic magnetic dipole moment. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 032601	3.4	24
249	Enhancement of Josephson phase diffusion by microwaves. <i>Physical Review Letters</i> , <b>2004</b> , 93, 087004	7.4	23
248	Origin of flux-flow resistance oscillations in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+y</sub> : Possibility of Fiske steps in a single junction. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	23
247	Dynamics of multiple-junction stacked flux-flow oscillators: Comparison between theory and experiment. <i>Physical Review B</i> , <b>1998</b> , 58, 5777-5782	3.3	23
246	Imaging of one- and two-dimensional Fiske modes in Josephson tunnel junctions. <i>Physical Review B</i> , <b>1991</b> , 44, 12463-12472	3.3	23
245	Microscopic examination of hot spots giving rise to nonlinearity in superconducting resonators. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	22
244	Andreev reflection and strongly enhanced magnetoresistance oscillations in GaxIn <sub>1-x</sub> AsInP heterostructures with superconducting contacts. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	22
243	Experimental study of the interaction between fluxon arrays in stacked Josephson junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1994</b> , 191, 443-448	2.3	21
242	Low-temperature scanning electron microscopy studies of superconducting thin films and Josephson junctions. <i>Physica B: Condensed Matter</i> , <b>1991</b> , 169, 415-421	2.8	21

241	Pinning of a fluxon chain in a long Josephson junction with a lattice of inhomogeneities: Theory and experiment. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 3791-3797	2.5	21
240	Reducing the impact of radioactivity on quantum circuits in a deep-underground facility. <i>Nature Communications</i> , <b>2021</b> , 12, 2733	17.4	21
239	Quantum technology: from research to application. <i>Applied Physics B: Lasers and Optics</i> , <b>2016</b> , 122, 1	1.9	21
238	Magnetically induced transparency of a quantum metamaterial composed of twin flux qubits. <i>Nature Communications</i> , <b>2018</b> , 9, 150	17.4	20
237	Soliton trapping in a periodic potential: experiment. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1997</b> , 233, 239-244	2.3	20
236	Resonances between fluxons and plasma waves in underdamped Josephson transmission lines of stripline geometry. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	20
235	Magnetic field penetration in a long Josephson junction imbedded in a wide stripline. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 471-476	2.5	20
234	Whispering vortices. <i>Physical Review Letters</i> , <b>2000</b> , 84, 151-4	7.4	20
233	Broken Symmetry of Row Switching in 2D Josephson Junction Arrays. <i>Physical Review Letters</i> , <b>1999</b> , 83, 5354-5357	7.4	20
232	Flux-flow induced Nernst effect in superconducting YBaCuO films. <i>Physica C: Superconductivity and Its Applications</i> , <b>1990</b> , 167, 6-10	1.3	20
231	Electrodynamics of a ring-shaped spiral resonator. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 064910	2.5	19
230	One-dimensional Josephson junction arrays: Lifting the Coulomb blockade by depinning. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	19
229	Dispersive Response of a Disordered Superconducting Quantum Metamaterial. <i>Photonics</i> , <b>2015</b> , 2, 449-458		18
228	Unconventional rf photoresponse from a superconducting spiral resonator. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	18
227	Imaging local sources of intermodulation in superconducting microwave devices. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2003</b> , 13, 340-343	1.8	18
226	Soliton bunching in annular Josephson junctions. <i>Journal of Applied Physics</i> , <b>1996</b> , 79, 7854-7859	2.5	18
225	Soliton dynamics in inhomogeneous Josephson junction: Theory and experiment. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1988</b> , 130, 107-110	2.3	18
224	Phonon traps reduce the quasiparticle density in superconducting circuits. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 212601	3.4	18



223	Probing the density of states of two-level tunneling systems in silicon oxide films using superconducting lumped element resonators. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 022603	3.4	17
222	Fabrication and measurements of hybrid Nb/Al Josephson junctions and flux qubits with shifters. <i>Superconductor Science and Technology</i> , <b>2015</b> , 28, 025009	3.1	17
221	Hybrid quantum circuit with implanted erbium ions. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 162404	3.4	17
220	Effect of LaAlO <sub>3</sub> twin-domain topology on local dc and microwave properties of cuprate films. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 033920	2.5	17
219	Splitting of the subgap resistance peak in superconductor/two-dimensional electron gas contacts at high magnetic fields. <i>Physical Review B</i> , <b>2000</b> , 61, 12463-12466	3.3	17
218	Current locking in magnetically coupled long Josephson junctions. <i>Physical Review B</i> , <b>1999</b> , 59, 11532-11538	3.3	17
217	Imaging the anisotropic nonlinear meissner effect in nodal YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin-film superconductors. <i>Physical Review Letters</i> , <b>2013</b> , 110, 087002	7.4	16
216	Coherent oscillations of driven rf SQUID metamaterials. <i>Physical Review E</i> , <b>2017</b> , 95, 050201	2.4	16
215	Exploration of a rich variety of breather modes in Josephson ladders. <i>Physical Review E</i> , <b>2002</b> , 66, 016603	3.4	16
214	Cavity resonances in Josephson ladders. <i>Physical Review B</i> , <b>1999</b> , 59, 14050-14053	3.3	16
213	Narrow long Josephson junctions. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1999</b> , 9, 3957-3961	1.8	16
212	Tunable phase locking of stacked Josephson flux-flow oscillators. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 250-252	3.2	16
211	Numerical analysis of the coherent radiation emission by two stacked Josephson flux-flow oscillators. <i>Journal of Applied Physics</i> , <b>1996</b> , 80, 6523-6535	2.5	16
210	Observation of supersoliton resonances in the modulated annular Josephson junction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1992</b> , 168, 319-325	2.3	16
209	Experiments with solitons in annular Josephson junctions. <i>Physica D: Nonlinear Phenomena</i> , <b>1993</b> , 68, 41-44	3.3	16
208	Fluxon chain commensurability effect in inhomogeneity lattice. <i>Solid State Communications</i> , <b>1988</b> , 68, 693-695	1.6	16
207	A superconducting 180° hybrid ring coupler for circuit quantum electrodynamics. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 222508	3.4	15
206	Measurement of local reactive and resistive photoresponse of a superconducting microwave device. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 212503	3.4	15

205	Josephson vortex interaction mediated by cavity modes: Tunable coupling for superconducting qubits. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	15
204	Libration states of a nonlinear oscillator: Resonant escape of a pinned magnetic fluxon. <i>Physical Review B</i> , <b>2000</b> , 63,	3.3	15
203	Observation of a radiation-induced soliton resonance in a Josephson ring. <i>JETP Letters</i> , <b>1996</b> , 64, 191-196.	2	15
202	Magnetic flux quanta in annular Josephson junctions in a barrier-parallel de magnetic field. <i>Physical Review B</i> , <b>1996</b> , 54, 14948-14951	3.3	15
201	Imaging local dissipation and magnetic field in YBCO films with artificial defects. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2005</b> , 15, 2954-2957	1.8	14
200	Andreev reflection and enhanced subgap conductance in NbN/Au/InGaAs-InP junctions. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 3366-3370	2.5	14
199	Testing a state preparation and read-out protocol for the vortex qubit. <i>Physica C: Superconductivity and Its Applications</i> , <b>2002</b> , 368, 324-327	1.3	14
198	Resonant plasmon scattering by discrete breathers in Josephson junction ladders. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	14
197	Experimental study of the interaction of fluxons with an Abrikosov vortex in a long Josephson junction. <i>Physical Review B</i> , <b>1993</b> , 47, 944-956	3.3	14
196	Introducing coherent time control to cavity magnon-polariton modes. <i>Communications Physics</i> , <b>2020</b> , 3,	5.4	14
195	Local sensing with the multilevel ac Stark effect. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	14
194	An argon ion beam milling process for native AlOx layers enabling coherent superconducting contacts. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 072601	3.4	13
193	Flux flow and resonant modes in multi-junction Josephson stacks. <i>Journal of Low Temperature Physics</i> , <b>1997</b> , 106, 201-206	1.3	13
192	Experimental test of a superconducting digital interface for vortex qubits. <i>European Physical Journal B</i> , <b>2004</b> , 38, 3-8	1.2	13
191	Extreme multiphoton phenomena in Josephson junctions: Euclidean resonance. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	13
190	Strong coupling effects in (NbN/AlOx) <sub>2</sub> -Nb stacked Josephson junctions. <i>Physical Review B</i> , <b>1998</b> , 58, 15078-15087	3.3	13
189	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1995</b> , 5, 2965-2968	1.8	13
188	Model for the fine structure of zero field steps in long Josephson tunnel junctions and its comparison with experiment. <i>Journal of Applied Physics</i> , <b>1996</b> , 79, 327-333	2.5	13

187	Fluxon density waves in long Josephson junctions. <i>Physical Review B</i> , <b>1993</b> , 48, 13133-13136	3.3	13
186	Interaction energy of Abrikosov and Josephson vortices in a long Josephson junction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1992</b> , 162, 409-414	2.3	13
185	Interplay of Magnetization Dynamics with a Microwave Waveguide at Cryogenic Temperatures. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	12
184	Nondegenerate Parametric Amplifiers Based on Dispersion-Engineered Josephson-Junction Arrays. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	12
183	Interplay Between Kinetic Inductance, Nonlinearity, and Quasiparticle Dynamics in Granular Aluminum Microwave Kinetic Inductance Detectors. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	12
182	Electrodynamics of planar Archimedean spiral resonator. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 033902	2.5	12
181	Josephson vortex coupled to a flux qubit. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 132602	3.4	12
180	Vortex qubit based on an annular Josephson junction containing a microshort. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	12
179	Analysis of testing the single-fluxon dynamics in a long Josephson junction by a dissipative spot. <i>Physical Review B</i> , <b>1994</b> , 49, 13024-13029	3.3	12
178	Magnons at low excitations: Observation of incoherent coupling to a bath of two-level systems. <i>Physical Review Research</i> , <b>2019</b> , 1,	3.9	12
177	Quantum technologies in Russia. <i>Quantum Science and Technology</i> , <b>2019</b> , 4, 040501	5.5	12
176	Observation of a collective mode of an array of transmon qubits. <i>JETP Letters</i> , <b>2017</b> , 105, 47-50	1.2	11
175	Mode Structure in Superconducting Metamaterial Transmission-Line Resonators. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	11
174	Resolving the positions of defects in superconducting quantum bits. <i>Scientific Reports</i> , <b>2020</b> , 10, 3090	4.9	11
173	Ferromagnet/Superconductor Hybrid Magnonic Metamaterials. <i>Advanced Science</i> , <b>2019</b> , 6, 1900435	13.6	11
172	Electronic decoherence of two-level systems in a Josephson junction. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	11
171	Transmission-line resonators for the study of individual two-level tunneling systems. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 112601	3.4	11
170	Spatially resolved measurements of critical parameters in superconducting filaments by laser scanning technique. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2001</b> , 11, 3170-3173	1.8	11

- 169 Incommensurate dynamics of resonant breathers in Josephson junction ladders. *Physical Review B*, **2002**, 65, 3-3 11
- 168 Bunching of fluxons by Cherenkov radiation in Josephson multilayers. *Physical Review B*, **2000**, 62, 1414-1420 11
- 167 Spatially resolved flux flow in long-overlap Josephson tunnel junctions. *Physical Review B*, **1995**, 51, 6542-6550 11
- 166 Multi-fluxon zero-field modes in long Josephson tunnel junctions. *Journal of Applied Physics*, **1995**, 77, 2598-2606 2.5 11
- 165 Peltier effect in the mixed state of high-T<sub>c</sub> superconductors. *Physica C: Superconductivity and Its Applications*, **1991**, 175, 179-182 1.3 11
- 164 Transmon qubit in a magnetic field: Evolution of coherence and transition frequency. *Physical Review Research*, **2019**, 1, 3-9 11
- 163 The Ginzburg-Landau Theory **1997**, 45-69 11
- 162 Kondo-like transport and magnetic field effect of charge carrier fluctuations in granular aluminum oxide thin films. *Scientific Reports*, **2018**, 8, 13892 4.9 11
- 161 Probing individual tunneling fluctuators with coherently controlled tunneling systems. *Physical Review B*, **2018**, 97, 3-3 11
- 160 Thermally activated conductance in arrays of small Josephson junctions. *Physical Review B*, **2013**, 88, 3-3 10
- 159 Experimental Study of Spectral Properties of a Frenkel-Kontorova System. *Physical Review Letters*, **2015**, 115, 107002 7.4 10
- 158 Design and experimental study of superconducting left-handed transmission lines with tunable dispersion. *Superconductor Science and Technology*, **2013**, 26, 114003 3.1 10
- 157 Protecting SQUID metamaterials against stray magnetic fields. *Superconductor Science and Technology*, **2013**, 26, 094003 3.1 10
- 156 Microwave Current Imaging in Passive HTS Components by Low-Temperature Laser Scanning Microscopy (LTLSM). *Journal of Superconductivity and Novel Magnetism*, **2007**, 19, 625-632 1.5 10
- 155 Laser scanning microscopy of guided vortex flow in microstructured high-T<sub>c</sub> films. *Journal of Applied Physics*, **2006**, 100, 023913 2.5 10
- 154 Imaging of Microscopic Sources of Resistive and Reactive Nonlinearities in Superconducting Microwave Devices. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 902-905 1.8 10
- 153 Vortex radiation in long narrow Josephson junctions: Theory and experiment. *Physical Review B*, **2005**, 72, 3-3 10
- 152 Observation of breather resonances in Josephson ladders. *Physical Review E*, **2002**, 65, 016606 2.4 10

151	Microwave spectroscopy on a double quantum dot with an on-chip Josephson oscillator. <i>New Journal of Physics</i> , <b>2000</b> , 2, 2-2	2.9	10
150	Backbending current-voltage characteristic for an annular Josephson junction in a magnetic field. <i>Physical Review B</i> , <b>1999</b> , 60, 1365-1371	3.3	10
149	Commensurability between fluxons and inhomogeneities in a long Josephson junction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1994</b> , 193, 359-362	2.3	10
148	Seebeck effect of weak links in a high-Tc superconductor. <i>Superconductor Science and Technology</i> , <b>1991</b> , 4, S400-S402	3.1	10
147	Observation of the Analog of the Fountain Effect in a Superconducting YBaCuO Film. <i>Europhysics Letters</i> , <b>1990</b> , 13, 175-180	1.6	10
146	Magnetization Dynamics in Proximity-Coupled Superconductor-Ferromagnet-Superconductor Multilayers. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	10
145	Ferromagnetic resonance with long Josephson junction. <i>Superconductor Science and Technology</i> , <b>2017</b> , 30, 054005	3.1	9
144	Current-Resistance Effects Inducing Nonlinear Fluctuation Mechanisms in Granular Aluminum Oxide Nanowires. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	9
143	. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2013</b> , 3, 25-31	3.4	9
142	Entangling microscopic defects via a macroscopic quantum shuttle. <i>New Journal of Physics</i> , <b>2011</b> , 13, 063015	2.9	9
141	Aluminum hard mask technique for the fabrication of high quality submicron Nb/Al <sub>1-x</sub> O <sub>x</sub> /Nb Josephson junctions. <i>Superconductor Science and Technology</i> , <b>2011</b> , 24, 035005	3.1	9
140	A tunable rf SQUID manipulated as flux and phase qubits. <i>Physica Scripta</i> , <b>2009</b> , T137, 014011	2.6	9
139	Comparative dynamics of two-dimensional shorted arrays and continuous stacked Josephson junctions. <i>Physical Review B</i> , <b>1997</b> , 55, 8490-8496	3.3	9
138	Spontaneous creation of discrete breathers in Josephson arrays. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	9
137	Microwave-induced flow of vortices in long Josephson junctions. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	9
136	Progressive motion of an ac-driven kink in an annular damped system. <i>Physical Review E</i> , <b>2002</b> , 65, 056613	3.4	9
135	Resonances in spatially modulated long Josephson junctions. <i>Physical Review B</i> , <b>1999</b> , 60, 13152-13157	3.3	9
134	Radiation detection from phase-locked serial dc SQUID arrays. <i>Journal of Applied Physics</i> , <b>1993</b> , 73, 2019-2023	2.9	9

133	Waveguide bandgap engineering with an array of superconducting qubits. <i>Npj Quantum Materials</i> , <b>2021</b> , 6,	5	9
132	Modified dispersion law for spin waves coupled to a superconductor. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 233903	2.5	9
131	Progress in Development of the Superconducting Bolometer With Microwave Bias and Readout. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2017</b> , 27, 1-5	1.8	8
130	Probing dynamics of micro-magnets with multi-mode superconducting resonator. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 173904	2.5	8
129	Photoluminescence of focused ion beam implanted Er <sup>3+</sup> :Y <sub>2</sub> SiO <sub>5</sub> crystals. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2014</b> , 8, 880-884	2.5	8
128	Microwave readout scheme for a Josephson phase qubit. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 262508	3.4	8
127	Pinning of charge and flux solitons in disordered Josephson junction arrays. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	8
126	Experimental study of flux flow and resonant modes in multi-junction Josephson stacks. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1997</b> , 7, 2901-2904	1.8	8
125	Josephson vortex motion in stacks of intrinsic Josephson junctions in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+x</sub> . <i>Applied Superconductivity</i> , <b>1997</b> , 5, 303-312		8
124	Observation of stochastic resonance in percolative Josephson media. <i>Low Temperature Physics</i> , <b>2002</b> , 28, 383-386	0.7	8
123	State preparation of a fluxonium qubit with feedback from a custom FPGA-based platform <b>2020</b> ,		7
122	Rabi oscillations in a superconducting nanowire circuit. <i>Npj Quantum Materials</i> , <b>2020</b> , 5,	5	7
121	Imaging the paramagnetic nonlinear Meissner effect in nodal gap superconductors. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	7
120	Nonreciprocal transmission of microwaves through a long Josephson junction. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	7
119	Wide-Range Bolometer With RF Readout TES. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2015</b> , 25, 1-4	1.8	7
118	Broadband sample holder for microwave spectroscopy of superconducting qubits. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 104702	1.7	7
117	Nonreciprocal microwave transmission through a long Josephson junction. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	7
116	On-chip radiation detection from stacked Josephson flux-flow oscillators. <i>Journal of Applied Physics</i> , <b>1996</b> , 80, 7134-7137	2.5	7

115	Observation of high voltage resonances in one-dimensional arrays. <i>Journal of Low Temperature Physics</i> , <b>1997</b> , 106, 353-358	1.3	7
114	Nonlocal electrodynamics of long ultranarrow Josephson junctions: Experiment and theory. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	7
113	Maximum velocity of a fluxon in a stack of coupled Josephson junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2000</b> , 266, 67-75	2.3	7
112	Experimental critical current patterns in Josephson junction ladders. <i>Physical Review B</i> , <b>2000</b> , 62, 8679-8682	3.2	7
111	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1995</b> , 5, 2743-2746	1.8	7
110	Magnetic flux dynamics in stacked Josephson junctions. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 235-240, 285-288	1.3	7
109	Imaging collective behavior in an rf-SQUID metamaterial tuned by DC and RF magnetic fields. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 082601	3.4	6
108	Unconventional magnetic field effect on noise properties of AlOx thin films in Kondo-like transport regime. <i>European Physical Journal: Special Topics</i> , <b>2019</b> , 228, 697-702	2.3	6
107	Superconducting noise bolometer with microwave bias and readout for array applications. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 042601	3.4	6
106	Compacted tunable split-ring resonators. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 162602	3.4	6
105	Experimental study of fluxon dynamics in a potential well. <i>Journal of Low Temperature Physics</i> , <b>1997</b> , 106, 193-200	1.3	6
104	Two-fold stacks of long Josephson junctions with different parameters. <i>European Physical Journal D</i> , <b>1996</b> , 46, 663-664		6
103	Dynamics of Josephson vortices in a temperature gradient. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1994</b> , 196, 76-82	2.3	6
102	Two-tone spectroscopy of a SQUID metamaterial in the nonlinear regime. <i>Physical Review Research</i> , <b>2019</b> , 1,	3.9	6
101	Coherent superconducting qubits from a subtractive junction fabrication process. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 124005	3.4	6
100	Fluxon dynamics in discrete Josephson transmission lines with stacked junctions. <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 309-314	2.5	5
99	Quantum cavity modes in spatially extended Josephson systems. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	5
98	Measurements of critical-current diffraction patterns in annular Josephson junctions. <i>Physical Review B</i> , <b>2000</b> , 62, 119-122	3.3	5

97	Magneto-resistance of a lateral contact to a two-dimensional electron gas. <i>Physica B: Condensed Matter</i> , <b>1996</b> , 225, 197-201	2.8	5
96	Fluxon-density waves in a modulated Josephson ring. <i>Physical Review B</i> , <b>1994</b> , 50, 12793-12801	3.3	5
95	Dynamical decoupling of quantum two-level systems by coherent multiple Landau-Zener transitions. <i>Npj Quantum Information</i> , <b>2019</b> , 5,	8.6	5
94	Nonlinear spin waves in ferromagnetic/superconductor hybrids. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 093903	2.5	4
93	Investigation of Dielectric Losses in Hydrogenated Amorphous Silicon (a-Si:H) thin Films Using Superconducting Microwave Resonators. <i>Physics Procedia</i> , <b>2012</b> , 36, 245-249		4
92	Observation of breatherlike states in a single Josephson cell. <i>Physical Review E</i> , <b>2003</b> , 67, 036607	2.4	4
91	Escape of a Josephson vortex trapped in an annular Josephson junction. <i>Physica B: Condensed Matter</i> , <b>2000</b> , 284-288, 585-586	2.8	4
90	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1995</b> , 5, 2939-2942	1.8	4
89	Commensurate fluxon states in long Josephson junctions with inhomogeneities. <i>Physica B: Condensed Matter</i> , <b>1994</b> , 194-196, 1729-1730	2.8	4
88	. <i>IEEE Transactions on Magnetics</i> , <b>1989</b> , 25, 1440-1443	2	4
87	Nernst effect in high-T <sub>c</sub> superconducting films. <i>Physica B: Condensed Matter</i> , <b>1990</b> , 165-166, 1217-1218	2.8	4
86	Solitons In Long Josephson Junctions With Inhomogeneities <b>1991</b> , 315-336		4
85	Implementation of a Transmon Qubit Using Superconducting Granular Aluminum. <i>Physical Review X</i> , <b>2020</b> , 10,	9.1	4
84	Fluxon-based quantum simulation in circuit QED. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	4
83	Superconductive Ultracompact Magnetically Coupled Resonator With Twin-Spiral Structure. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2017</b> , 27, 1-4	1.8	3
82	Phase-sensitive imaging of microwave currents in superconductive circuits. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 232601	3.4	3
81	Imaging Coherent Response of Superconducting Metasurface. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-3	1.8	3
80	1D Josephson quantum interference grids: diffraction patterns and dynamics. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 065303	3	3



79	Analysis of bolometer operation near the superconducting transition edge using microwave readout. <i>Technical Physics</i> , <b>2014</b> , 59, 137-142	0.5	3
78	Experiments With Tunable Superconducting Metamaterials. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2014</b> , 1-5	3.4	3
77	Flux-dependent crossover between quantum and classical behavior in a dc SQUID. <i>Physical Review Letters</i> , <b>2014</b> , 113, 247005	7.4	3
76	Spatially resolved analyses of microwave and intermodulation current flow across HTS resonator using low temperature laser scanning microscopy		3
75	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2001</b> , 11, 832-835	1.8	3
74	Resonances in one and two rows of triangular Josephson junction cells. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	3
73	Spatial distribution of critical current and supercurrent density in individual filaments extracted from Ag-sheathed Bi-2223 tapes. <i>Physica B: Condensed Matter</i> , <b>2000</b> , 284-288, 2071-2072	2.8	3
72	ac-induced damping of a fluxon in a long Josephson junction. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	3
71	Soliton dynamics in Josephson tunnel junctions. <i>Physica Scripta</i> , <b>1993</b> , T49A, 172-175	2.6	3
70	Application of low temperature scanning electron microscopy for the investigation of single-electron tunneling circuits. <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 376-384	2.5	3
69	Transport in weak barrier superlattices and the problem of the terahertz Bloch oscillator. <i>Uspekhi Fizicheskikh Nauk</i> , <b>2003</b> , 173, 780	0.5	3
68	Amplitude and frequency sensing of microwave fields with a superconducting transmon qubit. <i>Npj Quantum Information</i> , <b>2020</b> , 6,	8.6	3
67	Photon Transport in a Bose-Hubbard Chain of Superconducting Artificial Atoms. <i>Physical Review Letters</i> , <b>2021</b> , 126, 180503	7.4	3
66	Quantum Nondemolition Dispersive Readout of a Superconducting Artificial Atom Using Large Photon Numbers. <i>Physical Review Applied</i> , <b>2021</b> , 15,	4.3	3
65	Topological excitations and bound photon pairs in a superconducting quantum metamaterial. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	3
64	Planar Architecture for Studying a Fluxonium Qubit. <i>JETP Letters</i> , <b>2019</b> , 110, 574-579	1.2	3
63	Electrically and magnetically resonant dc-SQUID metamaterials. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	2
62	Nanoscale nonlinear effects in Erbium-implanted Yttrium Orthosilicate. <i>Journal of Luminescence</i> , <b>2016</b> , 177, 266-274	3.8	2

61	On-chip radiation detection from stacked Josephson flux-flow oscillators. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1997</b> , 7, 3601-3604	1.8	2
60	Low-Tc tunnel junction stacks as models for intrinsic Josephson effect in high-Tc materials. <i>Physica C: Superconductivity and Its Applications</i> , <b>1997</b> , 293, 264-267	1.3	2
59	High-contrast readout of superconducting qubits beyond the single-shot resolution limit. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 232502	3.4	2
58	Two-fluxon dynamics in an annular Josephson junction. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	2
57	Imaging sub-millimeter waves in planar cryoelectronic circuits by scanning laser microscopy. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2001</b> , 11, 716-720	1.8	2
56	Observation of whispering gallery resonances in annular Josephson junctions. <i>Physica B: Condensed Matter</i> , <b>2000</b> , 284-288, 575-576	2.8	2
55	Neighboring junction state effect on the fluxon motion in a Josephson stack. <i>Physical Review B</i> , <b>2000</b> , 62, 1427-1432	3.3	2
54	Long Josephson junctions and stacks <b>1998</b> ,		2
53	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1995</b> , 5, 2947-2950	1.8	2
52	Novel hybrid Nb/InAs/Nb step junctions. <i>European Physical Journal D</i> , <b>1996</b> , 46, 659-660		2
51	Two row switching regimes in two-dimensional Nb-Pb Josephson-junction array. <i>European Physical Journal D</i> , <b>1996</b> , 46, 687-688		2
50	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1993</b> , 3, 2508-2511	1.8	2
49	Fluxon motion in one-dimensional Josephson junction arrays. <i>Physica B: Condensed Matter</i> , <b>1994</b> , 194-196, 1765-1766	2.8	2
48	Observation of a spatially-coherent resonance mode in stacked Josephson junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1995</b> , 201, 375-380	2.3	2
47	Ultrastrong photon-to-magnon coupling in multilayered heterostructures involving superconducting coherence via ferromagnetic layers. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	2
46	Quantum sensors for microscopic tunneling systems. <i>Npj Quantum Information</i> , <b>2021</b> , 7,	8.6	2
45	A Superconducting Resonator with a Hafnium Microbridge at Temperatures of 50B50 mK. <i>Technical Physics Letters</i> , <b>2018</b> , 44, 581-584	0.7	2
44	Automated analysis of single-tone spectroscopic data for cQED systems. <i>Quantum Science and Technology</i> , <b>2019</b> , 4, 045009	5.5	1

43	Resonance inversion in a superconducting cavity coupled to artificial atoms and a microwave background. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	1
42	NbN Based Superconducting Josephson Phase Qubit with AlN Tunnel Barrier <b>2017</b> ,		1
41	Superconducting RFTES Detector at Milli-Kelvin Temperatures. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2018</b> , 28, 1-5	1.8	1
40	Rabi noise spectroscopy of individual two-level tunneling defects. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	1
39	Simulation of two-level systems. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)</i> , <b>2012</b> , 67, 340-345	0.7	1
38	Ultra-compact superconductive resonator with double-spiral structure <b>2013</b> ,		1
37	Incoherent microwave-induced resistive states of small Josephson junctions. <i>Low Temperature Physics</i> , <b>2010</b> , 36, 951-958	0.7	1
36	Delocking of flux-flow states in dc-driven magnetically coupled Josephson junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1997</b> , 224, 191-195	2.3	1
35	Tuning of phase diffusion in small Josephson junctions by magnetic field. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	1
34	Quantum Cascade Lasers and Applications: State-of-the-Art and Prospects. <i>Radiophysics and Quantum Electronics</i> , <b>2003</b> , 46, 666-674	0.7	1
33	Enhanced microwave power from triangular arrays of small Josephson junctions. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2001</b> , 11, 454-458	1.8	1
32	Nonlinear resonance between a soliton and Josephson plasma waves: experiment and theory. <i>Physica B: Condensed Matter</i> , <b>2000</b> , 280, 239-240	2.8	1
31	Static properties of stacked Josephson junctions: Comparison of experiments with the inductively coupled sine-Gordon model. <i>Physical Review B</i> , <b>1999</b> , 59, 181-183	3.3	1
30	Radiation linewidth of a long Josephson junction in the flux-flow regime. <i>European Physical Journal D</i> , <b>1996</b> , 46, 573-574		1
29	Fluxon-fluxon collision testing by a dissipative spot. <i>Physical Review B</i> , <b>1996</b> , 54, 9047-9049	3.3	1
28	Stacked Nb/Al?ALOX/Nb long Josephson tunnel junctions. <i>Physica B: Condensed Matter</i> , <b>1994</b> , 194-196, 1711-1712	2.8	1
27	Experimental study of fluxon dynamics in long Josephson junctions with a regular lattice of inhomogeneities. <i>Physica B: Condensed Matter</i> , <b>1990</b> , 165-166, 1655-1656	2.8	1
26	Phase-resolved visualization of radio-frequency standing waves in superconducting spiral resonator for metamaterial applications. <i>Low Temperature Physics</i> , <b>2022</b> , 48, 104-112	0.7	1

25	Tunable coupling scheme for implementing two-qubit gates on fluxonium qubits. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 194001	3.4	1
24	Experiments with Discrete Breathers in Josephson Arrays <b>2001</b> , 173-187		1
23	DEMETRA: Suppression of the Relaxation Induced by Radioactivity in Superconducting Qubits. <i>Journal of Low Temperature Physics</i> , <b>2020</b> , 199, 475-481	1.3	1
22	Probing the Tavis-Cummings Level Splitting with Intermediate-Scale Superconducting Circuits. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	1
21	Analog Ising chain simulation with transmons <b>2020</b> ,		1
20	Improving the quality factor of superconducting resonators by post-process surface treatment <b>2020</b> ,		1
19	Minimizing the Discrimination Time for Quantum States of an Artificial Atom. <i>Physical Review Applied</i> , <b>2021</b> , 15,	4.3	1
18	Frequency fluctuations of ferromagnetic resonances at millikelvin temperatures. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 212403	3.4	0
17	Eliminating Quantum Phase Slips in Superconducting Nanowires. <i>ACS Nano</i> , <b>2021</b> , 15, 4108-4114	16.7	0
16	Fluxons in high-impedance long Josephson junctions. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 112601	3.4	0
15	Analysis of microwave-readable RFES bolometer. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1182, 012009		0
14	A one-dimensional tunable magnetic metamaterial: erratum. <i>Optics Express</i> , <b>2014</b> , 22, 13041	3.3	
13	Electronic transport in mesoscopic superconductor/2D electron gas junctions in strong magnetic field. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2009</b> , 73, 880-882	0.4	
12	Imaging of vortex flow in microstructured high-T <sub>c</sub> films by laser scanning microscope. <i>Physica C: Superconductivity and Its Applications</i> , <b>2008</b> , 468, 552-556	1.3	
11	Quantum Dynamics of Vortices and Vortex Qubits <b>2005</b> , 162-185		
10	Cherenkov radiation from Josephson fluxons <b>1999</b> , 521-531		
9	Trapped fluxons in annular Josephson junctions in the external magnetic field. <i>European Physical Journal D</i> , <b>1996</b> , 46, 649-650		
8	Investigation of Nb contacts to a GaInAs/InP heterostructure. <i>European Physical Journal D</i> , <b>1996</b> , 46, 657-658		

- 7 Time-domain response of displaced linear branch in long Josephson junction. *European Physical Journal D*, **1996**, 46, 681-682
- 6 Interaction between fluxons in lateral Josephson junction stacks. *Physica C: Superconductivity and Its Applications*, **1996**, 258, 379-383 13
- 5 Fluxon interaction with external rf radiation in Josephson junctions. *Physical Review B*, **1993**, 47, 5212-5218
- 4 Energy level spectroscopy of a bound vortex-antivortex pair **2006**, 95-102
- 3 A New Tool for Studying Phase Coherent Phenomena in Quantum Dots **1999**, 35-44
- 2 Soliton Density Waves in Josephson Junctions. *NATO ASI Series Series B: Physics*, **1994**, 127-130
- 1 Josephson Vortex Dynamics in Layered Structures **1999**, 465-488