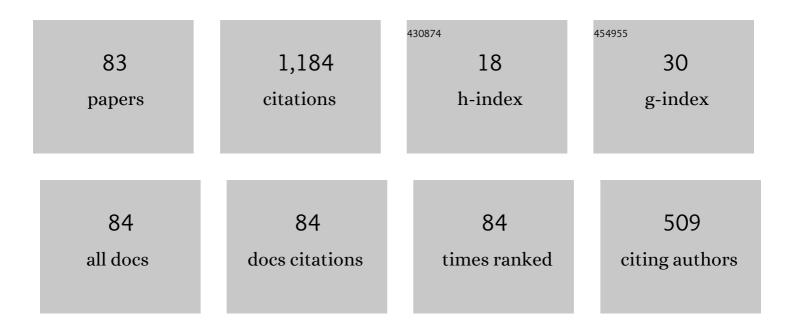
Leonid Kuzmin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	S-c-S junctions as nonlinear elements of microwave receiving devices. Revue De Physique Appliquée, 1974, 9, 79-109.	0.4	117
2	Nonequilibrium theory of a hot-electron bolometer with normal metal-insulator-superconductor tunnel junction. Journal of Applied Physics, 2001, 89, 6464-6472.	2.5	100
3	Underdamped Josephson junction as a switching current detector. Applied Physics Letters, 2013, 103, .	3.3	48
4	On the concept of a hot-electron microbolometer with capacitive coupling to the antenna. Physica B: Condensed Matter, 2000, 284-288, 2129-2130.	2.7	40
5	Theory of a Large Thermoelectric Effect in Superconductors Doped with Magnetic Impurities. Physical Review Letters, 2012, 109, 147004.	7.8	40
6	Microwave photon detection by an Al Josephson junction. Beilstein Journal of Nanotechnology, 2020, 11, 960-965.	2.8	37
7	Quantumâ€statistical theory of microwave detection using superconducting tunnel junctions. Journal of Applied Physics, 1986, 60, 1808-1828.	2.5	34
8	Cold-electron bolometer with electronic microrefrigeration and general noise analysis. , 1998, , .		34
9	Optical Response of a Cold-Electron Bolometer Array Integrated in a 345-GHz Cross-Slot Antenna. IEEE Transactions on Applied Superconductivity, 2011, 21, 3635-3639.	1.7	33
10	Single Photon Counter Based on a Josephson Junction at 14 GHz for Searching Galactic Axions. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	33
11	Strong tunneling and Coulomb blockade in a single-electron transistor. Physical Review B, 1999, 59, 10599-10602.	3.2	32
12	Ultimate cold-electron bolometer with strong electrothermal feedback. , 2004, , .		32
13	Photon-noise-limited cold-electron bolometer based on strong electron self-cooling for high-performance cosmology missions. Communications Physics, 2019, 2, .	5.3	32
14	Observation of the Correlated Discrete Single-Electron Tunneling. Japanese Journal of Applied Physics, 1987, 26, 1387.	1.5	30
15	On the concept of an optimal hot-electron bolometer with NIS tunnel junctions. Physica C: Superconductivity and Its Applications, 2002, 372-376, 378-382.	1.2	28
16	Symmetrical Josephson vortex interferometer as an advanced ballistic single-shot detector. Applied Physics Letters, 2014, 105, .	3.3	28
17	Observation of photon noise by cold-electron bolometers. Applied Physics Letters, 2017, 110, .	3.3	27
18	A Frequency Selective Surface Based Focal Plane Receiver for the OLIMPO Balloon-Borne Telescope. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 145-152.	3.1	26

#	Article	IF	CITATIONS
19	Towards a microwave single-photon counter for searching axions. Npj Quantum Information, 2022, 8,	6.7	22
20	Sensitivity to Cosmic Rays of Cold Electron Bolometers for Space Applications. Journal of Low Temperature Physics, 2014, 176, 323.	1.4	20
21	An allâ€chromium single electron transistor: A possible new element of single electronics. Applied Physics Letters, 1996, 68, 2902-2904.	3.3	18
22	Fabrication and characteristics of mesh band-pass filters. Instruments and Experimental Techniques, 2009, 52, 74-78.	0.5	18
23	Charge transport and Zener tunneling in small Josephson junctions with dissipation. Physical Review B, 1996, 54, 10074-10080.	3.2	16
24	Optimization of the Hot-Electron Bolometer and A Cascade Quasiparticle Amplifier for Space Astronomy. , 2002, , 145-154.		16
25	Capacitively coupled hot-electron nanobolometer as far-infrared photon counter. Applied Physics Letters, 2003, 82, 293-295.	3.3	15
26	Linewidth of Bloch oscillations in small Josephson junctions. Physica B: Condensed Matter, 1994, 203, 376-380.	2.7	14
27	A Resonant Cold-Electron Bolometer With a Kinetic Inductance Nanofilter. IEEE Transactions on Terahertz Science and Technology, 2014, 4, 314-320.	3.1	13
28	Dirt absorption on the ski running surface $\hat{a} \in $ " quantification and influence on the gliding ability. Sports Engineering, 2006, 9, 137-146.	1.1	12
29	Approaching microwave photon sensitivity with Al Josephson junctions. Beilstein Journal of Nanotechnology, 0, 13, 582-589.	2.8	12
30	Thin multilayer aluminum structures for superconducting devices. Instruments and Experimental Techniques, 2009, 52, 877-881.	0.5	11
31	Experimental field studies of the cross-country ski running surface interaction with snow. Procedia Engineering, 2011, 13, 23-29.	1.2	11
32	The effect of bias current asymmetry on the flux-flow steps in the grain boundary YBaCuO long Josephson junctions. Journal of Applied Physics, 2013, 114, .	2.5	11
33	Electromagnetic radiation detectors based on Josephson junctions: Effective Hamiltonian. Physical Review B, 2020, 101, .	3.2	11
34	Single-Photon Detection with a Josephson Junction Coupled to a Resonator. Physical Review Applied, 2021, 16, .	3.8	11
35	Record electron self-cooling in cold-electron bolometers with a hybrid superconductor-ferromagnetic nanoabsorber and traps. Scientific Reports, 2020, 10, 21961.	3.3	11
36	Resonant response drives sensitivity of Josephson escape detector. Chaos, Solitons and Fractals, 2021, 148, 111058.	5.1	10

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37	Josephson effect and macroscopic quantum interference in high-T/sub c/ superconducting thin-film weak links at 77 K. IEEE Transactions on Magnetics, 1989, 25, 943-945.	2.1	9
38	Planar Frequency Selective Bolometric Array at 350 GHz. IEEE Transactions on Terahertz Science and Technology, 2014, , 1-7.	3.1	9
39	Superconducting cold-electron bolometer with proximity traps. Microelectronic Engineering, 2003, 69, 309-316.	2.4	8
40	2D array of cold-electron nanobolometers with double polarised cross-dipole antennas. Nanoscale Research Letters, 2012, 7, 224.	5.7	8
41	Multifrequency Seashell Slot Antenna With Cold-Electron Bolometers for Cosmology Space Missions. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-6.	1.7	8
42	Multichroic seashell antenna with internal filters by resonant slots and cold-electron bolometers. Superconductor Science and Technology, 2019, 32, 035009.	3.5	8
43	Measurement of the superconducting single electron transistor in a high impedance environment. Physica B: Condensed Matter, 1994, 203, 347-353.	2.7	7
44	Effective electron microrefrigeration by superconductor–insulator–normal metal tunnel junctions with advanced geometry of electrodes and normal metal traps. Nanotechnology, 2004, 15, S224-S228.	2.6	7
45	A Superconducting Cold-Electron Bolometer with SIS' and Josephson Tunnel Junctions. Journal of Low Temperature Physics, 2008, 151, 292-297.	1.4	7
46	The relationship between the type of machining of the ski running-surface and its wettability and capillary drag. Sports Technology, 2010, 3, 121-130.	0.4	7
47	A distributed-absorber cold-electron bolometer single pixel at 95 GHz. Applied Physics Letters, 2015, 107,	3.3	7
48	A Distributed Terahertz Metasurface with Cold-Electron Bolometers for Cosmology Missions. Applied Sciences (Switzerland), 2021, 11, 4459.	2.5	7
49	Experimental evidence for the autonomous Bloch oscillations in single Josephson junctions. IEEE Transactions on Applied Superconductivity, 1993, 3, 1983-1986.	1.7	6
50	Superconducting Cold-Electron Bolometers with JFET Readout for OLIMPO Balloon Telescope. Journal of Physics: Conference Series, 2006, 43, 1298-1302.	0.4	6
51	Multichroic bandpass seashell antenna with cold-electron bolometers for CMB measurements. Proceedings of SPIE, 2016, , .	0.8	6
52	An integrated superconducting phase switch for cosmology instruments. Physica C: Superconductivity and Its Applications, 2007, 466, 115-123.	1.2	5
53	Response of a Cold-Electron Bolometer on THz Radiation from a Long YBa2Cu3O7â^î´ Bicrystal Josephson Junction. Applied Sciences (Switzerland), 2020, 10, 7667.	2.5	5
54	Cold-Electron Bolometer as a 1-cm-Wavelength Photon Counter. Physical Review Applied, 2020, 13, .	3.8	5

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55	A broadband detector based on series YBCO grain boundary Josephson junctions. Beilstein Journal of Nanotechnology, 2022, 13, 325-333.	2.8	5
56	Optical response of a titanium-based cold-electron bolometer. Superconductor Science and Technology, 2013, 26, 085020.	3.5	4
57	Sensitivity and Noise of Cold-Electron Bolometer Arrays. Radiophysics and Quantum Electronics, 2017, 59, 754-762.	0.5	4
58	Realization of Cold-Electron Bolometers with Ultimate Sensitivity Due to Strong Electron Self-Cooling. , 2017, , .		4
59	Absorption and cross-talk in a multipixel receiving system with cold electron bolometers. Superconductor Science and Technology, 2019, 32, 084001.	3.5	4
60	Wideband Double-Polarized Array of Cold-Electron Bolometers for OLIMPO Balloon Telescope. IEEE Transactions on Antennas and Propagation, 2021, 69, 1427-1432.	5.1	4
61	Application of low temperature scanning electron microscopy for the investigation of singleâ€electron tunneling circuits. Journal of Applied Physics, 1994, 76, 376-384.	2.5	3
62	Ti–TiO ₂ –Al normal metal–insulator–superconductor tunnel junctions fabricated in direct-write technology. Superconductor Science and Technology, 2007, 20, 865-869.	3.5	3
63	Realization of the Resonant Cold-Electron Bolometer With a Kinetic Inductance Nanofilter for Multichroic Pixels. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.7	3
64	Multifrequency seashell antenna based on resonant cold-electron bolometers with kinetic Inductance Nanofilters for CMB measurements. AIP Advances, 2019, 9, 015321.	1.3	3
65	Saturation of charge noise in Single Electron Tunneling transistor. European Physical Journal D, 1996, 46, 2287-2288.	0.4	2
66	Ultra-sensitive cryogenic thermometer based on an array of the SIN tunnel junctions. Physica C: Superconductivity and Its Applications, 2008, 468, 142-146.	1.2	2
67	Two-dimensional array of cold-electron bolometers for high-sensitivity polarization measurements. Radiophysics and Quantum Electronics, 2012, 54, 548-556.	0.5	2
68	A dual-band cold-electron bolometer with on-chip filters for the 220/240 GHz channels of the LSPE instrument. Superconductor Science and Technology, 2019, 32, 084005.	3.5	2
69	A Study of a Narrow-Band Receiving System of Cold-Electron Bolometers for the 220 and 240 GHz Channels using an Oscillator Based on the High-Temperature YBCO Superconductor. Radiophysics and Quantum Electronics, 2019, 62, 556-561.	0.5	2
70	Spectral Characteristics of the Double-Folded Slot Antennas with Cold-Electron Bolometers for the 220/240 GHz Channels of the LSPE Instrument. Applied Sciences (Switzerland), 2021, 11, 10746.	2.5	2
71	Optimization of the Cold-Electron Bolometer and a Quasiparticle Cascade Amplifier in the Voltage-Biased Mode. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	2
72	Submillimeter Space Telescope Project "Submillimetron". EAS Publications Series, 2002, 4, 255-255.	0.3	1

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73	An array of 100 Al–Al ₂ O ₃ –Cu SIN tunnel junctions in direct-write trilayer technology. Superconductor Science and Technology, 2007, 20, 1155-1158.	3.5	1
74	Thermo-electric charge-to-voltage converter with superconductor–insulator–normal tunnel junction for bolometer applications. Physica C: Superconductivity and Its Applications, 2010, 470, 1933-1936.	1.2	1
75	Strong Electron Self-Cooling in the Cold-Electron Bolometers Designed for CMB Measurements. Journal of Physics: Conference Series, 2018, 969, 012069.	0.4	1
76	Cold-electron bolometer as a photon-noise-limited detector with on-chip electron self-cooling. EPJ Web of Conferences, 2018, 195, 05006.	0.3	1
77	Detecting properties of YBaCuO thin film bridges. IEEE Transactions on Magnetics, 1991, 27, 2456-2459.	2.1	0
78	Magnetic field dependence of the current-voltage curve of a superconducting single electron transistor in a high impedance environment. European Physical Journal D, 1996, 46, 2291-2292.	0.4	0
79	Efficient electron cooling in Cold Electron Bolometers. EPJ Web of Conferences, 2018, 195, 05003.	0.3	0
80	YBaCuO Josephson generators fabricated by preliminary topology masks. EPJ Web of Conferences, 2018, 195, 01031.	0.3	0
81	Responsivity and Noise Equivalent Power of a Single Cold-Electron Bolometer. Applied Sciences (Switzerland), 2021, 11, 4608.	2.5	0
82	TWO-FREQUENCY CROSS-SLOT ANTENNA WITH RESONANT COLD ELECTRON BOLOMETERS FOR APPLICATION IN CORE SPACE MISSION. Pribory I Metody Izmerenij, 2017, 8, 101-107.	0.3	0
83	Multichroic Polarization Sensitive Planar Antennas with Resonant Cold-Electron Bolometers for Cosmology Experiments. Nanoscience and Technology, 2018, , 117-127.	1.5	0