

# Satoshi Kohjiro

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Optimization for Device Structure of Superconducting Transition Edge Sensor Coupled With Heavy Metal Absorber. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.7	3
2	Broadband high-energy resolution hard x-ray spectroscopy using transition edge sensors at SPring-8. Review of Scientific Instruments, 2021, 92, 013103.	1.3	14
3	Gamma-ray transition edge sensor with a thick SiO <sub>2</sub> /Si <sub>3</sub> N <sub>4</sub> /SiO <sub>2</sub> membrane. Applied Physics Letters, 2021, 119, 222602.	3.3	2
4	Microwave SQUID Multiplexer for Readout of Optical Transition Edge Sensor Array. Journal of Low Temperature Physics, 2020, 199, 206-211.	1.4	3
5	Low-noise microwave SQUID multiplexed readout of 38 x-ray transition-edge sensor microcalorimeters. Applied Physics Letters, 2020, 117, 122601.	3.3	18
6	Microcalorimetry of Carbon Ion Beam for Medical Treatment by Transition Edge Sensor. Journal of Low Temperature Physics, 2020, 199, 1012-1017.	1.4	3
7	Investigation of Large Coupling Between TES X-Ray Microcalorimeter and Microwave Multiplexer Based on Microstrip SQUID. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	6
8	Degradation of Quality Factor of Superconducting Resonators by Remaining Metallic Film and Improved Fabrication Process Using Caldera Planarization. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-6.	1.7	0
9	Readout of X-ray Pulses from a Single-pixel TES Microcalorimeter with Microwave Multiplexer Based on SQUIDs Directly Coupled to Resonators. Journal of Low Temperature Physics, 2018, 193, 618-625.	1.4	5
10	Frequency-domain cascading microwave superconducting quantum interference device multiplexers; beyond limitations originating from room-temperature electronics. Superconductor Science and Technology, 2018, 31, 035005.	3.5	5
11	Frequency-Domain Multiplexing Readout with a Self-Trigger System for Pulse Signals from Kinetic Inductance Detectors. Journal of Low Temperature Physics, 2018, 193, 518-524.	1.4	0
12	Toward Volume-Reduction of High-Resolving Spectrometers with Short Measurement Time. Atoms, 2018, 60, 398-402.	0.0	0
13	Interchannel Crosstalk and Nonlinearity of Microwave SQUID Multiplexers. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	8
14	Study of Nb and NbN Resonators at 0.1 K for Low-Noise Microwave SQUID Multiplexers. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	3
15	Adjustable SQUID-resonator direct coupling in microwave SQUID multiplexer for TES microcalorimeter array. IEICE Electronics Express, 2017, 14, 20170271-20170271.	0.8	9
16	Development of Frequency-Division Multiplexing Readout System for Large-Format TES X-ray Microcalorimeter Arrays. Journal of Low Temperature Physics, 2016, 184, 519-526.	1.4	5
17	Fabrication of Voltage Standard Circuits Utilizing a Serial-Parallel Power Divider. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	7
18	Numerical Analysis of Thermal Stress in a Voltage Standard Chip. , 2015, , .		0

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19	Development of Low-Power dc-SQUIDs for TES Frequency-Division Multiplexing Readout Towards Future Space Missions. , 2015, , .		3
20	White noise of Nb-based microwave superconducting quantum interference device multiplexers with NbN coplanar resonators for readout of transition edge sensors. Journal of Applied Physics, 2014, 115, .	2.5	15
21	Baseband Feedback Frequency-Division Multiplexing with Low-Power dc-SQUIDs and Digital Electronics for TES X-Ray Microcalorimeters. Journal of Low Temperature Physics, 2014, 176, 400-407.	1.4	16
22	Microwave SQUID Multiplexer for TES Readout. IEEE Transactions on Applied Superconductivity, 2013, 23, 2500405-2500405.	1.7	22
23	Compact terahertz passive spectrometer with wideband superconductor-insulator-superconductor mixer. Review of Scientific Instruments, 2012, 83, 023110.	1.3	2
24	NbN-Based Overdamped Josephson Junctions for Quantum Voltage Standards. IEICE Transactions on Electronics, 2012, E95-C, 329-336.	0.6	21
25	Comparison of gas content in smoke measured with a continuous-wave terahertz spectrometer and Fourier transform infrared spectrometer. , 2011, , .		0
26	Development of Superconductor-Insulator-Superconductor (SIS) Terahertz Receiver With Mechanical and Thermal Vibration-Reduced Cryocooler. IEEE Transactions on Applied Superconductivity, 2011, 21, 649-653.	1.7	4
27	Absorption Spectra of Smoke Emitted from Heated Nylon Fabric Measured with a Continuous-Wave Sub-Terahertz Spectrometer. Applied Physics Express, 2011, 4, 032401.	2.4	15
28	Remote gas sensing in full-scale fire with sub-terahertz waves. , 2011, , .		6
29	Optically synchronized dual-channel terahertz signals for high-performance transmitter/receiver system. Proceedings of SPIE, 2010, , .	0.8	1
30	Large constant voltage generated with a single array including 65â€‰%536 Nb/TiN/Nb Josephson junctions. Superconductor Science and Technology, 2010, 23, 075011.	3.5	4
31	Development of a compact Josephson voltage standard based on NbN/TiN/NbN array operating at 12K. , 2010, , .		0
32	Stabilization of the frequency difference of optically synchronized THz waves for reducing spectrometer sensitivity fluctuation. , 2010, , .		0
33	12 K operation of 2 V Josephson voltage standard circuit using NbN/TiN/NbN junctions. , 2010, , .		2
34	Preparation of overdamped NbTiN Josephson junctions with bilayered Tiâ€‰TiN barriers. Journal of Applied Physics, 2010, 108, 113904.	2.5	12
35	SIS Mixers as a Noise Detector for Optimization of Photonic Local Oscillators in Terahertz Range. IEEE Transactions on Applied Superconductivity, 2009, 19, 389-394.	1.7	2
36	Active gas-sensing with high-sweeping-speed optically synchronized dual-channel THz signals and a superconducting tunneling mixer. , 2009, , .		1

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37	High-sweeping-speed optically synchronized dual-channel terahertz-signal generator for driving a superconducting tunneling mixer and its application to active gas sensing. <i>Optics Express</i> , 2009, 17, 18455.	3.4	9
38	Heterodyne THz-wave receiver with a superconducting tunneling mixer driven by a high sweeping-speed photonics-based THz-wave local oscillator. <i>IEICE Electronics Express</i> , 2009, 6, 601-606.	0.8	4
39	Active gas sensing with a highly-sensitive sub-terahertz receiver utilizing a superconductor-insulator-superconductor mixer and a photonics-based local oscillator. <i>Proceedings of SPIE</i> , 2009, , .	0.8	1
40	Development of Superconducting Coaxial Cables for Cryogenic Detectors. <i>Journal of Low Temperature Physics</i> , 2008, 151, 650-654.	1.4	13
41	A 0.2&#x2013;0.5 THz heterodyne receiver based on a photonic local oscillator and a superconductor-insulator-superconductor mixer. , 2008, , .		0
42	Broadband scanning spectrometer with heterodyne SIS (Superconductor-Insulator-Superconductor) receiver. , 2008, , .		0
43	A 0.2&#x2013;0.5THz single-band heterodyne receiver based on a photonic local oscillator and a superconductor-insulator-superconductor mixer. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	29
44	An Octave Bandwidth SIS Mixer for Accurate and Compact Terahertz Spectrometers. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 355-358.	1.7	9
45	Study of a Multi-Channel RF Amplifier Based on DC SQUID for 3&#x2013;5 GHz Band. <i>IEEE Transactions on Applied Superconductivity</i> , 2005, 15, 741-744.	1.7	3
46	Wide-band operation of quasi-optical distributed superconductor/insulator/superconductor mixers with epitaxial NbN/AlN/NbN junctions. <i>Superconductor Science and Technology</i> , 2004, 17, S295-S300.	3.5	2
47	Far-infrared optical conductivity of Nb thin films. <i>Physica B: Condensed Matter</i> , 2003, 329-333, 1369-1370.	2.7	0
48	Radiation power of NbN-based flux-flow oscillators for THz-band integrated SIS receivers. <i>IEEE Transactions on Applied Superconductivity</i> , 2003, 13, 672-675.	1.7	5
49	Far-infrared optical conductivity of NbN <sup>1&amp;#x2212;x</sup> C <sub>x</sub> thin films. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 367, 337-342.	1.2	2
50	Relation between generated power and critical current density of flux-flow oscillators in submillimeter wave region. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 372-376, 343-346.	1.2	0
51	Design and performance of a velocity-matched broadband optical modulator with superconducting electrodes. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 3421-3424.	1.7	1
52	Fabrication of niobium-carbonitride Josephson junctions on magnesium-oxide substrates using chemical-mechanical polishing. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 4464-4466.	1.7	9
53	A traveling-wave-type LiNbO <sub>3</sub> optical modulator with superconducting electrodes. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1999, 47, 1201-1205.	4.6	17
54	Numerical Analysis of Synchronous Switching in Double-Barrier Josephson Junctions. <i>Japanese Journal of Applied Physics</i> , 1998, 37, L505-L507.	1.5	0

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55	Preparation of NbC/sub x/N/sub 1-x/ Josephson junctions with TiN/sub x/ barriers. IEEE Transactions on Applied Superconductivity, 1997, 7, 2801-2804.	1.7	21
56	Numerical characterization of impedance transformers consisting of vertically stacked superconducting transmission lines. IEEE Transactions on Applied Superconductivity, 1997, 7, 2343-2346.	1.7	3
57	Fabrication and characteristics of vertically stacked NbCN/MgO/NbCN Josephson junctions with thin intermediate electrodes. IEEE Transactions on Applied Superconductivity, 1997, 7, 2426-2429.	1.7	3
58	Overdamped NbC <sub>x</sub> N <sub>1-x</sub> Josephson junctions with sputter-deposited TiN <sub>x</sub> layers or MgO/TiN <sub>x</sub> bilayers as barriers. Applied Superconductivity, 1997, 5, 339-343.	0.5	4
59	Epitaxial growth of NbN and NbC/sub x/N/sub 1-x/ films on 3C-SiC film-covered Si wafers. IEEE Transactions on Applied Superconductivity, 1995, 5, 2396-2399.	1.7	7
60	Modulation of self-resonant modes in NbCN/MgO/NbCN junctions by quasiparticle injection. IEEE Transactions on Applied Superconductivity, 1995, 5, 2224-2227.	1.7	1
61	Fabrication of all-NbCN flux-flow oscillators with a tapered slotline antenna and off-chip detection of their radiation power. IEEE Transactions on Applied Superconductivity, 1995, 5, 2955-2958.	1.7	2
62	New Fabrication Process for Small Junctions Using a Selective Etch-Back Technique. Japanese Journal of Applied Physics, 1995, 34, L1127-L1129.	1.5	0
63	Kinetic Inductance of Superconducting Coplanar Waveguides. Japanese Journal of Applied Physics, 1994, 33, 5708-5712.	1.5	39
64	Surface resistance of epitaxial and polycrystalline NbCN films in submillimeter wave region. IEEE Transactions on Applied Superconductivity, 1993, 3, 1765-1767.	1.7	23
65	Stress in NbC <sub>x</sub> N <sub>1-x</sub> Films Prepared by Reactive Rf Magnetron Sputtering. Japanese Journal of Applied Physics, 1993, 32, L834-L836.	1.5	8
66	Flux-flow-type Josephson oscillator consisting of epitaxial NbCN/MgO/NbCN junction. IEEE Transactions on Applied Superconductivity, 1993, 3, 2528-2531.	1.7	5
67	Study of current peaks in DC SQUID with integrated coupling coil. IEEE Transactions on Applied Superconductivity, 1993, 3, 1853-1857.	1.7	5
68	Study of proximity effect in superconductor/Au using scanning tunneling spectroscopy. IEEE Transactions on Applied Superconductivity, 1993, 3, 1298-1300.	1.7	1
69	Magnetic Penetration Depths and Normal-State Resistivities of Epitaxial and Polycrystalline NbC <sub>x</sub> N <sub>1-x</sub> Films. Japanese Journal of Applied Physics, 1992, 31, L239-L241.	1.5	9
70	Study of YBCO/Au Surface Using Low-Temperature Scanning Tunneling Microscopy/Scanning Tunneling Spectroscopy. Japanese Journal of Applied Physics, 1992, 31, 3525-3528.	1.5	9
71	Superconducting properties and normal-state resistivity of single-crystal NbN films prepared by a reactive rf magnetron sputtering method. Applied Physics Letters, 1992, 60, 1624-1626.	3.3	60
72	Preparation and Characteristics of Full-Epitaxial NbC <sub>x</sub> N <sub>1-x</sub> /MgO/NbC <sub>x</sub> N <sub>1-x</sub> Josephon Tunnel Junctions. Springer Proceedings in Physics, 1992, , 208-213.	0.2	7

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73	Anisotropic SNS Josephson junctions using epitaxial YBaCuO films. Physica C: Superconductivity and Its Applications, 1991, 180, 227-234.	1.2	5
74	Study of Y <sub>i</sub> -Ba <sub>i</sub> -Cu <sub>i</sub> -O/Au surface electronic states using LTSTS. Physica C: Superconductivity and Its Applications, 1991, 185-189, 2569-2570.	1.2	1
75	Properties of Large-Sized Nb-Based Superconducting Tunnel Junctions for X-Ray Detection. Japanese Journal of Applied Physics, 1991, 30, 1969-1974.	1.5	4
76	Anisotropy in the Magnetic Penetration Depth of (103)YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> Thin Films. Japanese Journal of Applied Physics, 1991, 30, L1471-L1473.	1.5	4
77	Low noise operation of a DC SQUID in a large beta regime and its application to the design of a high T <sub>c</sub> /SQUID. IEEE Transactions on Magnetics, 1989, 25, 1154-1157.	2.1	3
78	Experimental Study of Noise Characteristics of Large- $\hat{I}^2$ dc SQUID with Resistively Shunted Inductance. Japanese Journal of Applied Physics, 1988, 27, 1871-1874.	1.5	8
79	Conversion Efficiency of a Large- $\hat{I}^2$ DC-SQUID with a Resistively Shunted Inductance. Japanese Journal of Applied Physics, 1988, 27, 214-218.	1.5	10
80	Integrated gradiometer with large $\hat{I}^2$ SQUID. IEEE Transactions on Magnetics, 1987, 23, 1106-1109.	2.1	4
81	Performance of Large- $\hat{I}^2$ SQUID with a Damping Resistance. Japanese Journal of Applied Physics, 1987, 26, 1647.	1.5	0
82	Noise characteristics of a dc SQUID with a resistively shunted inductance. II. Optimum damping. Japanese Journal of Applied Physics, 1986, 60, 4218-4223.	2.5	71