

Satoshi Kohjiro

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Noise characteristics of a dc SQUID with a resistively shunted inductance. II. Optimum damping. Journal of Applied Physics, 1986, 60, 4218-4223. | 2.5 | 71 |
| 2 | Superconducting properties and normal-state resistivity of single-crystal NbN films prepared by a reactive magnetron sputtering method. Applied Physics Letters, 1992, 60, 1624-1626. | 3.3 | 60 |
| 3 | Kinetic Inductance of Superconducting Coplanar Waveguides. Japanese Journal of Applied Physics, 1994, 33, 5708-5712. | 1.5 | 39 |
| 4 | A 0.2–0.5THz single-band heterodyne receiver based on a photonic local oscillator and a superconductor-insulator-superconductor mixer. Applied Physics Letters, 2008, 93, . | 3.3 | 29 |
| 5 | Surface resistance of epitaxial and polycrystalline NbCN films in submillimeter wave region. IEEE Transactions on Applied Superconductivity, 1993, 3, 1765-1767. | 1.7 | 23 |
| 6 | Microwave SQUID Multiplexer for TES Readout. IEEE Transactions on Applied Superconductivity, 2013, 23, 2500405-2500405. | 1.7 | 22 |
| 7 | 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 |
| 8 | NbN-Based Overdamped Josephson Junctions for Quantum Voltage Standards. IEICE Transactions on Electronics, 2012, E95-C, 329-336. | 0.6 | 21 |
| 9 | Low-noise microwave SQUID multiplexed readout of 38 x-ray transition-edge sensor microcalorimeters. Applied Physics Letters, 2020, 117, 122601. | 3.3 | 18 |
| 10 | A traveling-wave-type LiNbO ₃ /optical modulator with superconducting electrodes. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 1201-1205. | 4.6 | 17 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | Development of Superconducting Coaxial Cables for Cryogenic Detectors. Journal of Low Temperature Physics, 2008, 151, 650-654. | 1.4 | 13 |
| 16 | Preparation of overdamped NbTiN Josephson junctions with bilayered Ti/TiN barriers. Journal of Applied Physics, 2010, 108, 113904. | 2.5 | 12 |
| 17 | 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 |
| 18 | Magnetic Penetration Depths and Normal-State Resistivities of Epitaxial and Polycrystalline Nb _{Cx} N _{1-x} Films. Japanese Journal of Applied Physics, 1992, 31, L239-L241. | 1.5 | 9 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | Fabrication of niobium-carbonitride Josephson junctions on magnesium-oxide substrates using chemical-mechanical polishing. IEEE Transactions on Applied Superconductivity, 1999, 9, 4464-4466. | 1.7 | 9 |
| 21 | An Octave Bandwidth SIS Mixer for Accurate and Compact Terahertz Spectrometers. IEEE Transactions on Applied Superconductivity, 2007, 17, 355-358. | 1.7 | 9 |
| 22 | High-sweeping-speed optically synchronized dual-channel terahertz-signal generator for driving a superconducting tunneling mixer and its application to active gas sensing. Optics Express, 2009, 17, 18455. | 3.4 | 9 |
| 23 | Adjustable SQUID-resonator direct coupling in microwave SQUID multiplexer for TES microcalorimeter array. IEICE Electronics Express, 2017, 14, 20170271-20170271. | 0.8 | 9 |
| 24 | 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 |
| 25 | Stress in NbCxN1-xFilms Prepared by Reactive Rf Magnetron Sputtering. Japanese Journal of Applied Physics, 1993, 32, L834-L836. | 1.5 | 8 |
| 26 | Interchannel Crosstalk and Nonlinearity of Microwave SQUID Multiplexers. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5. | 1.7 | 8 |
| 27 | 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 |
| 28 | Fabrication of Voltage Standard Circuits Utilizing a Serial-Parallel Power Divider. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4. | 1.7 | 7 |
| 29 | Preparation and Characteristics of Full-Epitaxial NbCxN1-x/MgO/NbCxN1-x Josephon Tunnel Junctions. Springer Proceedings in Physics, 1992, , 208-213. | 0.2 | 7 |
| 30 | Remote gas sensing in full-scale fire with sub-terahertz waves. , 2011, , . | | 6 |
| 31 | 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 |
| 32 | Anisotropic SNS Josephson junctions using epitaxial YBaCuO films. Physica C: Superconductivity and Its Applications, 1991, 180, 227-234. | 1.2 | 5 |
| 33 | Flux-flow-type Josephson oscillator consisting of epitaxial NbCN/MgO/NbCN junction. IEEE Transactions on Applied Superconductivity, 1993, 3, 2528-2531. | 1.7 | 5 |
| 34 | Study of current peaks in DC SQUID with integrated coupling coil. IEEE Transactions on Applied Superconductivity, 1993, 3, 1853-1857. | 1.7 | 5 |
| 35 | Radiation power of NbN-based flux-flow oscillators for THz-band integrated SIS receivers. IEEE Transactions on Applied Superconductivity, 2003, 13, 672-675. | 1.7 | 5 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Integrated gradiometer with large $\hat{\rho}$ SQUID. IEEE Transactions on Magnetics, 1987, 23, 1106-1109. | 2.1 | 4 |
| 40 | 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 |
| 41 | Anisotropy in the Magnetic Penetration Depth of (103)YBa ₂ Cu ₃ O _{7-x} Thin Films. Japanese Journal of Applied Physics, 1991, 30, L1471-L1473. | 1.5 | 4 |
| 42 | Overdamped NbC _x N _{1-x} Josephson junctions with sputter-deposited TiN _x layers or MgO/TiN _x bilayers as barriers. Applied Superconductivity, 1997, 5, 339-343. | 0.5 | 4 |
| 43 | Heterodyne THz-wave receiver with a superconducting tunneling mixer driven by a high sweeping-speed photonics-based THz-wave local oscillator. IEICE Electronics Express, 2009, 6, 601-606. | 0.8 | 4 |
| 44 | Large constant voltage generated with a single array including 65% Nb/TiN/Nb Josephson junctions. Superconductor Science and Technology, 2010, 23, 075011. | 3.5 | 4 |
| 45 | 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 |
| 46 | Low noise operation of a DC SQUID in a large beta regime and its application to the design of a high T _c /SQUID. IEEE Transactions on Magnetics, 1989, 25, 1154-1157. | 2.1 | 3 |
| 47 | Numerical characterization of impedance transformers consisting of vertically stacked superconducting transmission lines. IEEE Transactions on Applied Superconductivity, 1997, 7, 2343-2346. | 1.7 | 3 |
| 48 | 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 |
| 49 | Study of a Multi-Channel RF Amplifier Based on DC SQUID for 3-5 GHz Band. IEEE Transactions on Applied Superconductivity, 2005, 15, 741-744. | 1.7 | 3 |
| 50 | Development of Low-Power dc-SQUIDs for TES Frequency-Division Multiplexing Readout Towards Future Space Missions. , 2015, , . | | 3 |
| 51 | 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 |
| 52 | Microwave SQUID Multiplexer for Readout of Optical Transition Edge Sensor Array. Journal of Low Temperature Physics, 2020, 199, 206-211. | 1.4 | 3 |
| 53 | Microcalorimetry of Carbon Ion Beam for Medical Treatment by Transition Edge Sensor. Journal of Low Temperature Physics, 2020, 199, 1012-1017. | 1.4 | 3 |
| 54 | 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 |

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|----|--|-----|-----------|
| 55 | 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 |
| 56 | Far-infrared optical conductivity of NbN _{1-x} C _x thin films. Physica C: Superconductivity and Its Applications, 2002, 367, 337-342. | 1.2 | 2 |
| 57 | Wide-band operation of quasi-optical distributed superconductor/insulator/superconductor mixers with epitaxial NbN/AlN/NbN junctions. Superconductor Science and Technology, 2004, 17, S295-S300. | 3.5 | 2 |
| 58 | 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 |
| 59 | 12 K operation of 2 V Josephson voltage standard circuit using NbN/TiN/NbN junctions. , 2010, , . | | 2 |
| 60 | Compact terahertz passive spectrometer with wideband superconductor-insulator-superconductor mixer. Review of Scientific Instruments, 2012, 83, 023110. | 1.3 | 2 |
| 61 | Gamma-ray transition edge sensor with a thick SiO ₂ /Si ₃ N ₄ /SiO ₂ membrane. Applied Physics Letters, 2021, 119, 222602. | 3.3 | 2 |
| 62 | Study of Y _{1-x} Ba _x Cu _{1-y} O/Au surface electronic states using LTSTS. Physica C: Superconductivity and Its Applications, 1991, 185-189, 2569-2570. | 1.2 | 1 |
| 63 | Study of proximity effect in superconductor/Au using scanning tunneling spectroscopy. IEEE Transactions on Applied Superconductivity, 1993, 3, 1298-1300. | 1.7 | 1 |
| 64 | 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 |
| 65 | Design and performance of a velocity-matched broadband optical modulator with superconducting electrodes. IEEE Transactions on Applied Superconductivity, 1999, 9, 3421-3424. | 1.7 | 1 |
| 66 | Active gas-sensing with high-sweeping-speed optically synchronized dual-channel THz signals and a superconducting tunneling mixer. , 2009, , . | | 1 |
| 67 | Active gas sensing with a highly-sensitive sub-terahertz receiver utilizing a superconductor-insulator-superconductor mixer and a photonics-based local oscillator. Proceedings of SPIE, 2009, , . | 0.8 | 1 |
| 68 | Optically synchronized dual-channel terahertz signals for high-performance transmitter/receiver system. Proceedings of SPIE, 2010, , . | 0.8 | 1 |
| 69 | New Fabrication Process for Small Junctions Using a Selective Etch-Back Technique. Japanese Journal of Applied Physics, 1995, 34, L1127-L1129. | 1.5 | 0 |
| 70 | Numerical Analysis of Synchronous Switching in Double-Barrier Josephson Junctions. Japanese Journal of Applied Physics, 1998, 37, L505-L507. | 1.5 | 0 |
| 71 | Relation between generated power and critical current density of flux-flow oscillators in submillimeter wave region. Physica C: Superconductivity and Its Applications, 2002, 372-376, 343-346. | 1.2 | 0 |
| 72 | Far-infrared optical conductivity of Nb thin films. Physica B: Condensed Matter, 2003, 329-333, 1369-1370. | 2.7 | 0 |

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|----|---|-----|-----------|
| 73 | A 0.2–0.5 THz heterodyne receiver based on a photonic local oscillator and a superconductor-insulator-superconductor mixer. , 2008, , . | | 0 |
| 74 | Broadband scanning spectrometer with heterodyne SIS (Superconductor-Insulator-Superconductor) receiver. , 2008, , . | | 0 |
| 75 | Development of a compact Josephson voltage standard based on NbN/TiN/NbN array operating at 12K. , 2010, , . | | 0 |
| 76 | Stabilization of the frequency difference of optically synchronized THz waves for reducing spectrometer sensitivity fluctuation. , 2010, , . | | 0 |
| 77 | Comparison of gas content in smoke measured with a continuous-wave terahertz spectrometer and Fourier transform infrared spectrometer. , 2011, , . | | 0 |
| 78 | Numerical Analysis of Thermal Stress in a Voltage Standard Chip. , 2015, , . | | 0 |
| 79 | 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 |
| 80 | 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 |
| 81 | Performance of Large- \hat{I}^2 SQUID with a Damping Resistance. Japanese Journal of Applied Physics, 1987, 26, 1647. | 1.5 | 0 |
| 82 | Toward Volume-Reduction of High-Resolving Spectrometers with Short Measurement Time. Atomos, 2018, 60, 398-402. | 0.0 | 0 |