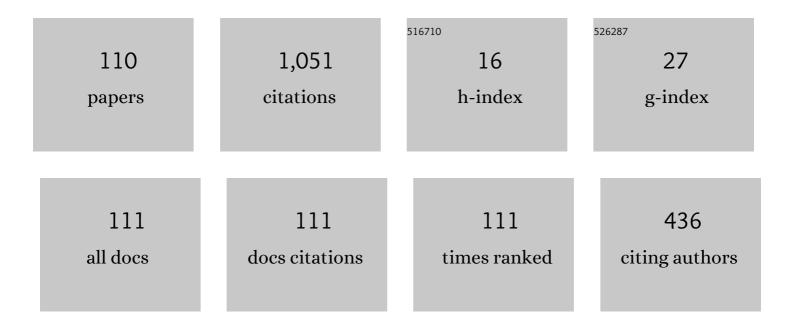
Hirotake Yamamori

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Magnetic tunnel junctions with single-crystal electrodes: A crystal anisotropy of tunnel magneto-resistance. Europhysics Letters, 2000, 52, 344-350.	2.0	92
2	10V programmable Josephson voltage standard circuits using NbNâ^•TiNxâ^•NbNâ^•TiNxâ^•NbN double-junction stacks. Applied Physics Letters, 2006, 88, 042503.	3.3	84
3	Practical High-Resolution Programmable Josephson Voltage Standards Using Double- and Triple- Stacked <tex>\$rm MoSi_2\$</tex> -Barrier Junctions. IEEE Transactions on Applied Superconductivity, 2005, 15, 461-464.	1.7	53
4	A 10 V programmable Josephson voltage standard circuit with a maximum output voltage of 20 V. Superconductor Science and Technology, 2008, 21, 105007.	3.5	52
5	Experimental formation of a fractional vortex in a superconducting bi-layer. Physica C: Superconductivity and Its Applications, 2018, 548, 44-49.	1.2	43
6	Operation of a NbN-based programmable Josephson voltage standard chip with a compact refrigeration system. IEEE Transactions on Applied Superconductivity, 2003, 13, 919-921.	1.7	37
7	Flexible Cryo-Packages for Josephson Devices. IEEE Transactions on Applied Superconductivity, 2005, 15, 465-468.	1.7	33
8	All-NbN digital-to-analog converters for a programmable voltage standard. Superconductor Science and Technology, 2001, 14, 1048-1051.	3.5	31
9	Operation of a Josephson arbitrary waveform synthesizer with optical data input. Superconductor Science and Technology, 2009, 22, 114012.	3.5	22
10	Terahertz electrodynamics and superconducting energy gap of NbTiN. Journal of Applied Physics, 2013, 114, .	2.5	22
11	Microwave SQUID Multiplexer for TES Readout. IEEE Transactions on Applied Superconductivity, 2013, 23, 2500405-2500405.	1.7	22
12	NbN-Based Overdamped Josephson Junctions for Quantum Voltage Standards. IEICE Transactions on Electronics, 2012, E95-C, 329-336.	0.6	21
13	NbN/TiNx/NbN/TiNx/NbN double-barrier junction arrays for programmable voltage standards. Applied Physics Letters, 2002, 80, 1415-1417.	3.3	20
14	Operating Margins of a 10 V Programmable Josephson Voltage Standard Circuit Using \${m NbN}/{m TiN}_{x}/{m NbN}/{m TiN}_{x}/{m NbN}\$ Double-Junction Stacks. IEEE Transactions on Applied Superconductivity, 2007, 17, 858-863.	1.7	19
15	Precision AC–DC Difference Measurement System Based on a Programmable Josephson Voltage Standard. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2439-2444.	4.7	18
16	Low-noise microwave SQUID multiplexed readout of 38 x-ray transition-edge sensor microcalorimeters. Applied Physics Letters, 2020, 117, 122601.	3.3	18
17	Comparison of a Multichip 10-V Programmable Josephson Voltage Standard System With a Superconductor–Insulator–Superconductor-Based Conventional System. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 832-837.	4.7	16
18	Evaluation of Low-Frequency Characteristic of a Thermal Converter Using Programmable Josephson Voltage Standard. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 2930-2935.	4.7	16

#	Article	IF	CITATIONS
19	Improved Fabrication Yield for 10-V Programmable Josephson Voltage Standard Circuit Including 524288 NbN/TiN/NbN Josephson Junctions. IEEE Transactions on Applied Superconductivity, 2010, 20, 71-75.	1.7	16
20	2.6-V High-Resolution Programmable Josephson Voltage Standard Circuits Using Double-Stacked MoSi <tex>\$_2\$</tex> -Barrier Junctions. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 616-619.	4.7	15
21	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
22	Decomposition of a unit quantum and isolation of a fractional quantum by an externally injected soliton in an ultra-thin superconducting bi-layer film. Physica C: Superconductivity and Its Applications, 2017, 538, 12-19.	1.2	15
23	Demonstration of a 10 V programmable Josephson voltage standard system based on a multi-chip technique. Superconductor Science and Technology, 2008, 21, 035002.	3.5	14
24	Single-Chip 10-V Programmable Josephson Voltage Standard System Based on a Refrigerator and Its Precision Evaluation. IEEE Transactions on Applied Superconductivity, 2010, 20, 21-25.	1.7	13
25	Preparation of overdamped NbTiN Josephson junctions with bilayered Ti–TiN barriers. Journal of Applied Physics, 2010, 108, 113904.	2.5	12
26	Calibration System for Zener Voltage Standards Using a 10 V Programmable Josephson Voltage Standard at NMIJ. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1606-1612.	4.7	12
27	Chip-to-chip communication using a single flux quantum pulse. IEEE Transactions on Applied Superconductivity, 2000, 10, 1603-1605.	1.7	11
28	Fabrication and critical currents of thin-film-type Bi2Sr2CaCu2Ox intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2001, 362, 256-260.	1.2	10
29	Boltzmann Constant Measurements Using QVNS-Based Johnson Noise Thermometry at NMIJ, AIST. International Journal of Thermophysics, 2014, 35, 985-998.	2.1	10
30	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
31	Flux-flow cavity resonance modes in intrinsic Josephson junctions by Bi2Sr2CaCu2Ox thin films. Physica C: Superconductivity and Its Applications, 2002, 367, 404-409.	1.2	9
32	Programmable Josephson Voltage Standard Circuits Using Arrays of NbN/TiN/NbN/TiN/NbN Double-Junction Stacks Operated at 10 K. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 620-623.	4.7	9
33	Adjustable SQUID-resonator direct coupling in microwave SQUID multiplexer for TES microcalorimeter array. IEICE Electronics Express, 2017, 14, 20170271-20170271.	0.8	9
34	Effective method of forming and detecting a fractional magnetic flux quantum. Physica C: Superconductivity and Its Applications, 2021, 589, 1353932.	1.2	9
35	Fabrication of all-NbN Josephson junctions using semiconductive amorphous barriers. Superconductor Science and Technology, 1996, 9, A30-A33.	3.5	8
36	Magnetic Isolation on a Superconducting Ground Plane. Japanese Journal of Applied Physics, 1999, 38, 5869-5870.	1.5	8

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37	A novel approach to chip-to-chip communication using a single flux quantum pulse. IEEE Transactions on Applied Superconductivity, 1999, 9, 4049-4052.	1.7	8
38	Critical current control and microwave-induced characteristics of (NbN/TiN/sub x/)/sub n//NbN stacked junction arrays. IEEE Transactions on Applied Superconductivity, 2003, 13, 1093-1095.	1.7	8
39	Interchannel Crosstalk and Nonlinearity of Microwave SQUID Multiplexers. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	8
40	Voltage-less alternating current (AC) Josephson effect in two-band superconductors. Physica C: Superconductivity and Its Applications, 2017, 538, 6-11.	1.2	8
41	Abnormal Meissner state in a superconducting bilayer. Physica C: Superconductivity and Its Applications, 2018, 551, 41-47.	1.2	8
42	Simultaneous Switching on Vertically Stacked Josephson Junctions with Very Thin Intermediate Electrode. Japanese Journal of Applied Physics, 1994, 33, L846-L849.	1.5	7
43	Generation of AC waveforms using a NbN-based programmable Josephson voltage standard system with a 10-K cooler. , 2010, , .		7
44	Heat transfer analysis of a programmable Josephson voltage standard chip operated with a mechanical cooler. Physica C: Superconductivity and Its Applications, 2015, 518, 89-95.	1.2	7
45	Fabrication of Voltage Standard Circuits Utilizing a Serial–Parallel Power Divider. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	7
46	Johnson Noise Thermometry Based On Integrated Quantum Voltage Noise Source. IEEE Transactions on Applied Superconductivity, 2016, , 1-1.	1.7	7
47	Dependence of Electrical Characteristics of NbN/TiN/NbN Josephson Junctions on Barrier Thickness and Temperature. Japanese Journal of Applied Physics, 2000, 39, L1289-L1291.	1.5	6
48	A direct comparison of a 10 V Josephson voltage standard between a refrigerator-based multi-chip programmable system and a conventional system. Superconductor Science and Technology, 2009, 22, 095010.	3.5	6
49	Dual radiofrequency drive quantum voltage standard with nanovolt resolution based on a closed-loop refrigeration cycle. Measurement Science and Technology, 2012, 23, 124003.	2.6	6
50	Generation of 10 Vrms waveforms using AC-programmable Josephson voltage standard system with 10 K cooler. , 2014, , .		6
51	An unconventional vortex state in a superconducting bilayer where one layer has a hole. Solid State Communications, 2018, 277, 39-44.	1.9	6
52	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
53	Uniformity of Overdamped NbCN/TiN/NbCN Josephson Junctions. Japanese Journal of Applied Physics, 1999, 38, L734-L736.	1.5	5
54	Demonstration of chip-to-chip propagation of single flux quantum pulses. IEEE Transactions on Applied Superconductivity, 2001, 11, 337-340.	1.7	5

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55	A new coding technique in serial data transmission and demodulation with Josephson junctions array. Journal of Physics: Conference Series, 2010, 234, 042037.	0.4	5
56	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
57	Synchronous switching in vertically stacked Josephson junctions. IEEE Transactions on Applied Superconductivity, 1995, 5, 3102-3105.	1.7	4
58	Measurement of thermoelectric effects in a thermal converter using a NbN/TiN/NbN josephson junction array. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 359-362.	4.7	4
59	Precise Measurement of a 20-V Programmable Josephson Voltage Standard System. Japanese Journal of Applied Physics, 2009, 48, 076510.	1.5	4
60	Large constant voltage generated with a single array including 65 536 Nb/TiN/Nb Josephson junctions. Superconductor Science and Technology, 2010, 23, 075011.	3.5	4
61	Development of zener calibration system using 10 V programmable Josephson voltage standard at NMIJ. , 2014, , .		4
62	Terahertz electrodynamics and superconducting energy gap of NbN. Journal of the Korean Physical Society, 2017, 71, 571-574.	0.7	4
63	Reliable packaging of Josephson voltage standard circuit for cryocooler operation. IEICE Electronics Express, 2019, 16, 20190219-20190219.	0.8	4
64	Flattened remnant-field distribution in superconducting bilayer. Physica C: Superconductivity and Its Applications, 2019, 567, 1253489.	1.2	4
65	High-Quality Nb/AlOx-Al/Nb Josephson Junctions with Gap Voltage of 2.95 mV. Japanese Journal of Applied Physics, 1993, 32, L1609-L1611.	1.5	3
66	Improvement of uniformity of NbCN/MgO/NbCN Josephson junctions for large-scale circuit applications. Superconductor Science and Technology, 1999, 12, 877-879.	3.5	3
67	Description of intrinsic Josephson junctions by the inductive coupling theory. Physica C: Superconductivity and Its Applications, 2001, 362, 1-9.	1.2	3
68	A Precise Evaluation of NbN-Based 1-V Programmable Josephson Voltage Standard Arrays. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 645-648.	4.7	3
69	Fabrication of Stacked \${m NbN}/{m TiN}_{m x}/{m NbN}\$ Josephson Junctions Using an Inductively Coupled Plasma Etching Technique. IEEE Transactions on Applied Superconductivity, 2007, 17, 210-213.	1.7	3
70	Development of 10-Vrms sampling measurement system using AC-programmable Josephson voltage standard. , 2014, , .		3
71	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
72	Microwave SQUID Multiplexer for Readout of Optical Transition Edge Sensor Array. Journal of Low Temperature Physics, 2020, 199, 206-211.	1.4	3

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73	Microcalorimetry of Carbon Ion Beam for Medical Treatment by Transition Edge Sensor. Journal of Low Temperature Physics, 2020, 199, 1012-1017.	1.4	3
74	Thermal management of a 3D packaging structure for superconducting quantum annealing machines. Applied Physics Letters, 2021, 118, 174004.	3.3	3
75	Phase shifter based on an ultrathin superconducting bilayer with a through-hole for a superconducting device. Physica C: Superconductivity and Its Applications, 2022, 595, 1354029.	1.2	3
76	Observation of multiple fractional quanta in a superconducting bilayer disk with a pinhole. Physica C: Superconductivity and Its Applications, 2022, 600, 1354103.	1.2	3
77	Microwave Characteristics of NbN/NbNx/NbN Josephson Junctions for Quantum Voltage Standards. Japanese Journal of Applied Physics, 2005, 44, L1326-L1328.	1.5	2
78	Comparison between a 1-V NbN-Based Programmable and a Conventional Josephson Array. Japanese Journal of Applied Physics, 2007, 46, 7912-7915.	1.5	2
79	Microwave-Induced Characteristics of \${({m NbN/TiN}_{m x})}_{N}/{m NbN}\$ StackedJosephson Junction Arrays. IEEE Transactions on Applied Superconductivity, 2009, 19, 987-992.	1.7	2
80	12 K operation of 2 V Josephson voltage standard circuit using NbN/TiN/NbN junctions. , 2010, , .		2
81	Cryocooler-based quantum voltage standard with dual rf drive. , 2012, , .		2
82	An X-ray TES Detector Head Assembly for a STEM–EDS System and Its Performance. Journal of Low Temperature Physics, 2018, 193, 1282-1286.	1.4	2
83	Extending voltage range to 10 V rms in AC–DC difference measurements with AC programmable Josephson voltage standard. Measurement Science and Technology, 2020, 31, 065010.	2.6	2
84	Gamma-ray transition edge sensor with a thick SiO2/SixNy/SiO2 membrane. Applied Physics Letters, 2021, 119, 222602.	3.3	2
85	Study on the transition width at gap voltage caused by the proximity effect in Nb-based Josephson junctions. Superconductor Science and Technology, 1994, 7, 284-286.	3.5	1
86	Reduction in Shapiro Step Height in Double-Barrier Josephson Junction Arrays. Japanese Journal of Applied Physics, 2005, 44, L819-L822.	1.5	1
87	Evaluation of Attenuation Constants of Superconducting NbN Coplanar Waveguides. Japanese Journal of Applied Physics, 2005, 44, L961-L963.	1.5	1
88	Investigation of Temperature Dependence of Microwave-Induced Characteristics of a NbN Josephson Junction Array. IEEE Transactions on Applied Superconductivity, 2005, 15, 205-208.	1.7	1
89	Operation of a 10-V programmable Josephson voltage standard system with a 10-K compact cryocooler. , 2008, , .		1
90	Evaluation of low-frequency characteristic of a thermal converter using a programmable josephson voltage standard. , 2008, , .		1

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#	Article	IF	CITATIONS
91	Development of thermodynamic temperature measurement technique based on quantum standards at NMIJ/AIST. , 2012, , .		1
92	Thermal-Converter Validation of Differential Sampling Measurement Based on AC-Programmable Josephson Voltage Standard System. , 2015, , .		1
93	Development of Johnson Noise Thermometer Using Quantum Voltage Noise Source. , 2015, , .		1
94	Characterization of high-stability AC source using AC-programmable Josephson voltage standard system. , 2016, , .		1
95	Sampling Measurement of a 20-V RMS Sine Wave Using an Inductive Voltage Divider and an AC-Programmable Josephson Voltage Standard. , 2018, , .		1
96	Observation of Solder Layers for PJVS Chips Formed with Supersonic-Soldering Method. , 2018, , .		1
97	Development of microwave multiplexer for the Super DIOS mission: 38 transition-edge sensor x-ray microcalorimeter readout with microwave multiplexing. , 2020, , .		1
98	Investigation of current–voltage characteristics of vertically stacked all-NbCN Josephson junctions. Applied Superconductivity, 1997, 5, 393-398.	0.5	0
99	Numerical Analysis of Synchronous Switching in Double-Barrier Josephson Junctions. Japanese Journal of Applied Physics, 1998, 37, L505-L507.	1.5	Ο
100	Fast reversed DC measurements using a NbN/TiN/NbN Josephson junction array. , 0, , .		0
101	A Programmable Josephson Voltage Standard Chip using Arrays of NbN/TiN/NbN/TiN/NbN Double-Junction Stacks Operated at 10K. , 2004, , .		Ο
102	A Precise Measurement of a NbN-Based 1 V Programmble Josephson Voltage Standard Array. , 2004, , .		0
103	Preliminary Experiment of Comparison Between a 1-V NbN-Based Programmable and a Conventional Josephson Array. , 2004, , .		Ο
104	Utilization of a cryo-prober system for operation of a pulse-driven josephson junction array. Journal of Physics: Conference Series, 2010, 234, 042020.	0.4	0
105	Development of a compact Josephson voltage standard based on NbN/TiN/NbN array operating at 12K. , 2010, , .		Ο
106	Numerical Analysis of Thermal Stress in a Voltage Standard Chip. , 2015, , .		0
107	Investigation of Applicability of Heat Exchange Gas for Cooling of Programmable Josephson Voltage Standard Chip. , 2018, , .		0
108	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

#	Article	IF	CITATIONS
109	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

110 Investigation of Heat Transfer in 3D Packaging for Practical-Scale Quantum Annealing Machines. , 2021,