

# Nobu Kaneko

## List of Publications by Year in descending order

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123  
papers

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citations

257450

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149698

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124  
docs citations

124  
times ranked

2414  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematical Modeling and Measurement of Low Frequency Characteristics of Single-Junction Thermal Converters. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-4.	4.7	1
2	Subfemtoampere Resolved Ionization Current Measurements Using a High-Resistance Transimpedance Amplifier. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	1
3	Quantum anomalous Hall effect with a permanent magnet defines a quantum resistance standard. Nature Physics, 2022, 18, 25-29.	16.7	31
4	In-flight distribution of an electron within a surface acoustic wave. Applied Physics Letters, 2021, 119, .	3.3	10
5	Development on measurement method for Thomson coefficient of thin film. Measurement: Journal of the International Measurement Confederation, 2021, 185, 110010.	5.0	3
6	Single-surface conduction in a highly bulk-resistive topological insulator Sn <sub>0.02</sub> Bi <sub>1.08</sub> Sb <sub>0.9</sub> Te <sub>2</sub> S using the Corbino geometry. Applied Physics Letters, 2021, 118, 033102.	3.3	0
7	Low-Frequency Characteristics of Silicon-Based High-Current Multijunction Thermal Current Converters Fabricated by Wet Chemical Etching. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-7.	4.7	1
8	Heat-Driven Electron-Motion in a Nanoscale Electronic Circuit. Journal of the Physical Society of Japan, 2021, 90, .	1.6	2
9	Reverse heat flow with Peltier-induced thermoinductive effect. Communications Physics, 2021, 4, .	5.3	2
10	Comparison Between NIST Graphene and AIST GaAs Quantized Hall Devices. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3103-3108.	4.7	22
11	Fabrication of High-Current Multijunction Thermal Current Converters on Silicon Substrates by Wet Chemical Etching. , 2020, , .		1
12	Investigation of the Influence of Humidity on the Output Voltage of a Prototype of a Compact Detachable Zener Module. , 2020, , .		0
13	High-accuracy compensation of radiative heat loss in Thomson coefficient measurement. Applied Physics Letters, 2020, 117, .	3.3	7
14	Dual-gate control of the surface carriers of the highly-bulk-resistive topological insulator Sn <sub>0.02</sub> Bi <sub>1.08</sub> Sb <sub>0.9</sub> Te <sub>2</sub> S. Journal of Physics Condensed Matter, 2020, 32, 405704.	1.8	3
15	Precise resistance measurement of quantum anomalous Hall effect in magnetic heterostructure film of topological insulator. Applied Physics Letters, 2020, 116, 143101.	3.3	17
16	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
17	Quantum mechanical current-to-voltage conversion with quantum Hall resistance array. Metrologia, 2020, 57, 025004.	1.2	7
18	Precision measurement of single-electron current with quantized Hall array resistance and Josephson voltage. Metrologia, 2020, 57, 065025.	1.2	11

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19	Precise absolute Seebeck coefficient measurement and uncertainty analysis using high- $T_c$ superconductors as a reference. Review of Scientific Instruments, 2020, 91, 014903.	1.3	4
20	Low-Frequency AC-DC Differences of a Series-Parallel Circuit of Thermal Converters. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1907-1912.	4.7	2
21	Precise measurement of absolute Seebeck coefficient from Thomson effect using ac-dc technique. AIP Advances, 2019, 9, .	1.3	10
22	Characterization of $1\text{-}\Omega$ Metal-Foil Standard Resistors and Continuing Drift-Rate Evaluation of $1\text{-}\Omega$ and $10\text{-}\Omega$ Standard Resistors. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2078-2083.	4.7	1
23	Direct DC 10 V comparison between two programmable Josephson voltage standards made of niobium nitride (NbN)-based and niobium (Nb)-based Josephson junctions. Metrologia, 2018, 55, 302-313.	1.2	8
24	Experimental Measurements of Constriction Resistance for Electrical Contacts Simulated Using Microfabrication. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 927-931.	2.5	4
25	Error modelling of quantum Hall array resistance standards. Metrologia, 2018, 55, 167-174.	1.2	6
26	Investigation of Atmospheric-Pressure Dependence of Compact Detachable Zener Module. , 2018, , .		2
27	Sampling Measurement of a 20-V RMS Sine Wave Using an Inductive Voltage Divider and an AC-Programmable Josephson Voltage Standard. , 2018, , .		1
28	Precision Measurement of $1\text{ M}\Omega$ Quantum Hall Resistance Array. , 2018, , .		1
29	Observation of Solder Layers for PJVS Chips Formed with Supersonic-Soldering Method. , 2018, , .		1
30	Dynamical coupling between a nuclear spin ensemble and electromechanical phonons. Nature Communications, 2018, 9, 2993.	12.8	13
31	Fano effect in the transport of an artificial molecule. Physical Review B, 2018, 97, .	3.2	7
32	Digital processing with single electrons for arbitrary waveform generation of current. Applied Physics Express, 2018, 11, 036701.	2.4	3
33	Direct comparison of $1\text{ M}\Omega$ quantized Hall array resistance and quantum Hall resistance standard. Metrologia, 2018, 55, 645-653.	1.2	14
34	Inter Laboratory Comparison of High Resistance Standard in Japan. , 2018, , .		1
35	Measuring the Boltzmann's Constant Using Superconducting Integrated Circuit. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1323-1328.	4.7	7
36	Study of Contact Resistance in Connectors With Physical Simulation Using Nanofabrication. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1248-1253.	4.7	2

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37	Evaluation of Automatic Coaxial Mechanical Scanners for Precise Resistance and Capacitance Measurements. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1560-1565.	4.7	1
38	Experimental Demonstration of Current Dependence Evaluation of Voltage Divider Based on Quantized Hall Resistance Voltage Divider. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1237-1242.	4.7	1
39	Preparation and Characterization of Sn-BSTS Topological Insulator for Universality Test of the Quantum Hall Effect. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1489-1495.	4.7	8
40	Development of $1 \text{ M}\Omega$ Quantum Hall Array Resistance Standards. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1475-1481.	4.7	21
41	Review of quantum electrical standards and benefits and effects of the implementation of the revised $\text{SI}$ . IEJ Transactions on Electrical and Electronic Engineering, 2017, 12, 627-637.	1.4	6
42	Interplay of the Inverse Proximity Effect and Magnetic Field in Out-of-Equilibrium Single-Electron Devices. Physical Review Applied, 2017, 7, .	3.8	6
43	Measurement of the Boltzmann constant by Johnson noise thermometry using a superconducting integrated circuit. Metrologia, 2017, 54, 847-855.	1.2	27
44	Development of $1\text{-}\Omega$ and $10\text{-}\Omega$ Metal-Foil Standard Resistors. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1482-1488.	4.7	3
45	Low-noise and wide-bandwidth current readout at low temperatures using a superconducting-quantum-interference-device amplifier. Japanese Journal of Applied Physics, 2017, 56, 04CK10.	1.5	3
46	Evaluation of the automatic coaxial mechanical scanner for high-resistance measurement use. , 2016, , .		1
47	Development of $1\text{-M}\Omega$ quantum Hall array resistance standards. , 2016, , .		2
48	Study of contact resistance in connectors with physical simulation using nano-fabrication. , 2016, , .		0
49	Development of a compact Zener DC voltage standard with detachable module system. , 2016, , .		6
50	Evaluation of a resistive voltage divider based on a quantized Hall resistance voltage divider. , 2016, , .		1
51	Measurement of Boltzmann constant using superconducting integrated circuit. , 2016, , .		1
52	Universality test of the quantum Hall effect on topological insulator. , 2016, , .		0
53	Local DC electrical properties of $\text{La}_{2/3}\text{NiO}_3$ grain boundaries. Journal of the Ceramic Society of Japan, 2016, 124, 907-910.		
54	Development of $1\ \Omega$ and $10\ \Omega$ metal foil standard resistors. , 2016, , .		3

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55	Analysis of heat loss for measurement of Thomson coefficient using AC calorimetric method. , 2016, , .		1
56	A direct DC 10 V comparison between the NIMJ and the BIPM Programmable Josephson Voltage Standards. , 2016, , .		0
57	Characterization of high-stability AC source using AC-programmable Josephson voltage standard system. , 2016, , .		1
58	Johnson Noise Thermometry Based On Integrated Quantum Voltage Noise Source. IEEE Transactions on Applied Superconductivity, 2016, , 1-1.	1.7	7
59	A review of the quantum current standard. Measurement Science and Technology, 2016, 27, 032001.	2.6	43
60	Application of Antiperovskite Manganese Nitride to Standard Resistor. IEEJ Transactions on Fundamentals and Materials, 2016, 136, 448-454.	0.2	1
61	Numerical Analysis of Thermal Stress in a Voltage Standard Chip. , 2015, , .		0
62	The influence of the thickness of electrodes on constriction resistance in nanofabricated sample for physical simulating of the electrical contacts. , 2015, , .		1
63	Design and Analysis on a Cryogenic Current Amplifier with a Superconducting Microwave Resonator. , 2015, , .		0
64	Uncertainty Evaluation of a 10 V RMS Sampling Measurement System Using the AC Programmable Josephson Voltage Standard. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 3308-3314.	4.7	23
65	Development of 7.75 Ratio Voltage Divider Toward a Precise Measurement of Decade Resistance Based on the AC Quantized Hall Resistance. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1588-1594.	4.7	0
66	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
67	Transportation Effect and Basic Characteristics of Metal-Foil Resistors Examined in an International Trilateral Pilot Study. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1514-1519.	4.7	6
68	Single-Electron Pumping by Parallel SINIS Turnstiles for Quantum Current Standard. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1696-1701.	4.7	15
69	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
70	AC/DC Transfer Technique for Measuring Thomson Coefficient: Toward Thermoelectric Metrology. IEEE Transactions on Instrumentation and Measurement, 2015, , 1-1.	4.7	5
71	Evaluation of Linearity Characteristics in Digital Voltmeters Using a PJVS System With a 10-K Cooler. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1613-1619.	4.7	8
72	Antiperovskite Manganese Nitride Standard Resistor. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1446-1450.	4.7	3

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73	Controlling the Fermi Level in a Single-Layer Graphene QHE Device for Resistance Standard. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1451-1454.	4.7	14
74	Development and Evaluation of High-Stability Metal-Foil Resistor With a Resistance of $1 \times 10^k \Omega$ . IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1490-1495.	4.7	7
75	Uncertainty evaluation of sampling measurement system using AC-programmable Josephson voltage standard. , 2014, , .		5
76	Constriction resistance of physical simulated electrical contacts with nanofabrication. , 2014, , .		5
77	SINIS turnstile for quantum current standards. , 2014, , .		1
78	Development of 10-Vrms sampling measurement system using AC-programmable Josephson voltage standard. , 2014, , .		3
79	Generation of 10 Vrms waveforms using AC-programmable Josephson voltage standard system with 10 K cooler. , 2014, , .		6
80	Transportation effect of Ni-Cr based metal-foil standard resistors in a trilateral comparison pilot study between KRISS, NIST, and NMIJ. , 2014, , .		1
81	First Attempt to Develop an On-Chip Double-Shielded QHR Device for Use in AC Measurements. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1743-1748.	4.7	2
82	Native Graphene Oxides at Graphene Edges. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1461-1466.	4.7	0
83	Validation for capacitance national standard based on long-term monitoring results of standard capacitors. IEEJ Transactions on Electrical and Electronic Engineering, 2013, 8, 111-115.	1.4	3
84	New Design of Quantized Hall Resistance Array Device. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1755-1759.	4.7	25
85	Optimization of $\text{Mn}_3\text{Ag}_{1-x}\text{Cu}_x\text{N}$ Antiperovskite Compound Fabrication for Resistance Standard. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1450-1453.	4.7	8
86	Characterization of $100 \Omega$ Metal Foil Standard Resistors. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1776-1782.	4.7	9
87	Development of a one-chip quantized Hall resistance voltage divider. Measurement Science and Technology, 2012, 23, 124008.	2.6	7
88	New drive system for programmable Josephson voltage standard using pulse packet bias. , 2012, , .		1
89	Development of High-Stability Metal-Foil Standard Resistors for DC and AC Measurements. NCSL International Measure, 2012, 7, 34-40.	0.1	8
90	Improvement of yield ratio of ohmic contact to GaAs/AlGaAs heterostructure by application of $\text{SiO}_2$ protective layer. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 270-273.	0.8	5

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91	Review of Josephson Waveform Synthesis and Possibility of New Operation Method by Multibit Delta-epsilon-Sigma Modulation and Thermometer Code for Its Further Advancement. Japanese Journal of Applied Physics, 2012, 51, 010116.	1.5	4
92	Review of Josephson Waveform Synthesis and Possibility of New Operation Method by Multibit Delta-epsilon-Sigma Modulation and Thermometer Code for Its Further Advancement. Japanese Journal of Applied Physics, 2012, 51, 010116.	1.5	2
93	Design and Fabrication of Integrated Cryogenic Current Comparators. IEEE Transactions on Applied Superconductivity, 2011, 21, 728-733.	1.7	3
94	Development of Quantum Hall Array Resistance Standards at NMIJ. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2590-2595.	4.7	25
95	Novel 100-ohm Metal Foil Resistor. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2544-2549.	4.7	15
96	Current Status of Josephson Arbitrary Waveform Synthesis at NMIJ/AIST. IEICE Transactions on Electronics, 2011, E94-C, 273-279.	0.6	11
97	Operation of a Josephson arbitrary waveform synthesizer with optical data input. Superconductor Science and Technology, 2009, 22, 114012.	3.5	22
98	Discontinuity of the ultrafast electronic response of underdoped superconducting $\text{Bi}_{1-x}\text{Pb}_x\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . Physical Review B, 2009, 79, .	3.2	51
99	Thermal Variations of Magnetic Excitation Spectrum in Slightly Overdoped $\text{Bi}_{2.1}\text{Sr}_{1.9}\text{CaCu}_2\text{O}_{8+\delta}$ . Journal of the Physical Society of Japan, 2009, 78, 074703.	1.6	2
100	Superconductivity-induced self-energy evolution of the nodal electron of optimally doped $\text{Bi}_{2}\text{Sr}_{2}\text{Ca}_{0.92}\text{Y}_{0.08}\text{Cu}_2\text{O}_{8+\delta}$ . Physical Review B, 2008, 77, .	3.2	31
101	Muon spin relaxation study of superconducting $\text{Bi}_{2}\text{Sr}_{2-x}\text{La}_x\text{CuO}_6+\delta$ . Physical Review B, 2007, 75, .	3.2	32
102	Operation of Josephson Junctions With Current Pulses Generated by Triggering a Cold Photo Detector With an Optical Comb. IEEE Transactions on Applied Superconductivity, 2007, 17, 870-873.	1.7	8
103	Observation of Quantized Voltage Steps Using a Josephson Junction Array Driven by Optoelectronically Generated Pulses. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 614-618.	4.7	9
104	Normal state spectral lineshapes of nodal quasiparticles in single layer $\text{Bi}_{2201}$ superconductor. Journal of Physics and Chemistry of Solids, 2006, 67, 239-243.	4.0	6
105	Crystal Growth and Characterization of the Model High-Temperature Superconductor $\text{HgBa}_2\text{CuO}_4+\delta$ . Advanced Materials, 2006, 18, 3243-3247.	21.0	61
106	Gap-Inhomogeneity-Induced Electronic States in Superconducting $\text{Bi}_{2}\text{Sr}_{2}\text{CaCu}_2\text{O}_{8+\delta}$ . Physical Review Letters, 2006, 96, 017007.	7.8	96
107	Normal-state electronic structure in the heavily overdoped regime of $\text{Bi}_{1.74}\text{Pb}_{0.38}\text{Sr}_{1.88}\text{CuO}_6+\delta$ single-layer cuprate superconductors: An angle-resolved photoemission study. Physical Review B, 2006, 73, .	3.2	15
108	Muon Spin Relaxation Studies of Magnetic-Field-Induced Effects in High-Tc Superconductors. Physical Review Letters, 2005, 95, 157001.	7.8	51

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109	Charge-Transfer Excitations in the Model Superconductor $\text{HgBa}_2\text{CuO}_4$ . <i>Physical Review Letters</i> , 2005, 95, 217003.	7.8	43
110	Structural and magnetic properties of the single-layer manganese oxide $\text{La}_{1-x}\text{Sr}_x\text{MnO}_4$ . <i>Physical Review B</i> , 2005, 71, .	3.2	90
111	Coupling of the $B_{1g}$ Phonon to the Antinodal Electronic States of $\text{Bi}_2\text{Sr}_2\text{Ca}_{0.92}\text{Y}_{0.08}\text{Cu}_2\text{O}_8$ . <i>Physical Review Letters</i> , 2004, 93, 117003.	7.8	210
112	Periodic coherence-peak height modulations in superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ . <i>Physical Review B</i> , 2004, 70, .	3.2	59
113	A universal scaling relation in high-temperature superconductors. <i>Nature</i> , 2004, 430, 539-541.	27.8	235
114	Effect of chemical inhomogeneity in bismuth-based copper oxide superconductors. <i>Physical Review B</i> , 2004, 69, .	3.2	410
115	Periodic density-of-states modulations in superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ . <i>Physical Review B</i> , 2003, 67, .	3.2	301
116	Coexistence of periodic modulation of quasiparticle states and superconductivity in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9705-9709.	7.1	96
117	Angle-resolved photoemission spectral function analysis of the electron-doped cuprate $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ . <i>Physical Review B</i> , 2003, 68, .	3.2	56
118	Electronic excitations near the Brillouin zone boundary of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ . <i>Physical Review B</i> , 2002, 65, .	3.2	37
119	PHOTOEMISSION STUDY OF THE INTRA-UNIT-CELL COUPLING IN A TRILAYER CUPRATE. <i>International Journal of Modern Physics B</i> , 2002, 16, 1691-1696.	2.0	5
120	Electronic Structure of the Trilayer Cuprate Superconductor $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ . <i>Physical Review Letters</i> , 2002, 88, 107001.	7.8	95
121	Doping Dependence of $a_{1g}$ -Type Cuprate Superconductor Investigated by Angle-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2002, 88, 257001.	7.8	379
122	Anomalous Electronic Structure and Pseudogap Effects in $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ . <i>Physical Review Letters</i> , 2001, 87, 147003.	7.8	175
123	Nature of $e_g$ Electron Order in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_4$ . <i>Physical Review Letters</i> , 2001, 87, 095502.	7.8	66