

Nobu Kaneko

List of Publications by Year in descending order

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123
papers

3,243
citations

257450

24
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149698

56
g-index

124
all docs

124
docs citations

124
times ranked

2414
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of chemical inhomogeneity in bismuth-based copper oxide superconductors. Physical Review B, 2004, 69, .	3.2	410
2	Doping Dependence of ann-Type Cuprate Superconductor Investigated by Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2002, 88, 257001.	7.8	379
3	Periodic density-of-states modulations in superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Physical Review B, 2003, 67, .	3.2	301
4	A universal scaling relation in high-temperature superconductors. Nature, 2004, 430, 539-541.	27.8	235
5	Coupling of the B_1g Phonon to the Antinodal Electronic States of $\text{Bi}_2\text{Sr}_2\text{Ca}_{0.92}\text{Y}_{0.08}\text{Cu}_2\text{O}_{8+\delta}$. Physical Review Letters, 2004, 93, 117003.	7.8	210
6	Anomalous Electronic Structure and Pseudogap Effects in $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$. Physical Review Letters, 2001, 87, 147003.	7.8	175
7	Coexistence of periodic modulation of quasiparticle states and superconductivity in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9705-9709.	7.1	96
8	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
9	Electronic Structure of the Trilayer Cuprate Superconductor $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$. Physical Review Letters, 2002, 88, 107001.	7.8	95
10	Structural and magnetic properties of the single-layer manganese oxide $\text{La}_{1-x}\text{Sr}_x\text{MnO}_4$. Physical Review B, 2005, 71, .	3.2	90
11	Nature of e_g Electron Order in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_4$. Physical Review Letters, 2001, 87, 095502.	7.8	66
12	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
13	Periodic coherence-peak height modulations in superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Physical Review B, 2004, 70, .	3.2	59
14	Angle-resolved photoemission spectral function analysis of the electron-doped cuprate $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$. Physical Review B, 2003, 68, .	3.2	56
15	Muon Spin Relaxation Studies of Magnetic-Field-Induced Effects in High-Tc Superconductors. Physical Review Letters, 2005, 95, 157001.	7.8	51
16	Discontinuity of the ultrafast electronic response of underdoped superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Physical Review B, 2009, 79, .	3.2	51
17	Charge-Transfer Excitations in the Model Superconductor $\text{HgBa}_2\text{CuO}_4+\delta$. Physical Review Letters, 2005, 95, 217003.	7.8	43
18	A review of the quantum current standard. Measurement Science and Technology, 2016, 27, 032001.	2.6	43

#	ARTICLE	IF	CITATIONS
19	Electronic excitations near the Brillouin zone boundary of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. Physical Review B, 2002, 65, .	3.2	37
20	Muon spin relaxation study of superconducting $\text{Bi}_2\text{Sr}_2\text{La}_x\text{CuO}_6$. Physical Review B, 2007, 75, .	3.2	32
21	Superconductivity-induced self-energy evolution of the nodal electron of optimally doped $\text{Bi}_2\text{Sr}_2\text{Ca}_{0.92}\text{Y}_{0.08}\text{Cu}_2\text{O}_8$. Physical Review B, 2008, 77, .	3.2	31
22	Quantum anomalous Hall effect with a permanent magnet defines a quantum resistance standard. Nature Physics, 2022, 18, 25-29.	16.7	31
23	Measurement of the Boltzmann constant by Johnson noise thermometry using a superconducting integrated circuit. Metrologia, 2017, 54, 847-855.	1.2	27
24	Development of Quantum Hall Array Resistance Standards at NMIJ. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2590-2595.	4.7	25
25	New Design of Quantized Hall Resistance Array Device. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1755-1759.	4.7	25
26	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
27	Operation of a Josephson arbitrary waveform synthesizer with optical data input. Superconductor Science and Technology, 2009, 22, 114012.	3.5	22
28	Comparison Between NIST Graphene and AIST GaAs Quantized Hall Devices. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3103-3108.	4.7	22
29	Development of 1 $\text{M}\Omega$ Quantum Hall Array Resistance Standards. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1475-1481.	4.7	21
30	Precise resistance measurement of quantum anomalous Hall effect in magnetic heterostructure film of topological insulator. Applied Physics Letters, 2020, 116, 143101.	3.3	17
31	Normal-state electronic structure in the heavily overdoped regime of $\text{Bi}_{1.74}\text{Pb}_{0.38}\text{Sr}_{1.88}\text{CuO}_6$ single-layer cuprate superconductors: An angle-resolved photoemission study. Physical Review B, 2006, 73, .	3.2	15
32	Novel 100- Ω Metal Foil Resistor. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2544-2549.	4.7	15
33	Single-Electron Pumping by Parallel SINIS Turnstiles for Quantum Current Standard. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1696-1701.	4.7	15
34	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
35	Direct comparison of 1 $\text{M}\Omega$ quantized Hall array resistance and quantum Hall resistance standard. Metrologia, 2018, 55, 645-653.	1.2	14
36	Dynamical coupling between a nuclear spin ensemble and electromechanical phonons. Nature Communications, 2018, 9, 2993.	12.8	13

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37	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
38	Precision measurement of single-electron current with quantized Hall array resistance and Josephson voltage. Metrologia, 2020, 57, 065025.	1.2	11
39	Current Status of Josephson Arbitrary Waveform Synthesis at NMIJ/AIST. IEICE Transactions on Electronics, 2011, E94-C, 273-279.	0.6	11
40	Precise measurement of absolute Seebeck coefficient from Thomson effect using ac-dc technique. AIP Advances, 2019, 9, .	1.3	10
41	In-flight distribution of an electron within a surface acoustic wave. Applied Physics Letters, 2021, 119, .	3.3	10
42	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
43	Characterization of 100- Ω Metal Foil Standard Resistors. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1776-1782.	4.7	9
44	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
45	Development of High-Stability Metal-Foil Standard Resistors for DC and AC Measurements. NCSL International Measure, 2012, 7, 34-40.	0.1	8
46	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
47	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
48	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
49	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
50	Development of a one-chip quantized Hall resistance voltage divider. Measurement Science and Technology, 2012, 23, 124008.	2.6	7
51	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
52	Development and Evaluation of High-Stability Metal-Foil Resistor With a Resistance of 1 $\text{k}\Omega$. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1490-1495.	4.7	7
53	Johnson Noise Thermometry Based On Integrated Quantum Voltage Noise Source. IEEE Transactions on Applied Superconductivity, 2016, , 1-1.	1.7	7
54	Measuring the Boltzmann's Constant Using Superconducting Integrated Circuit. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1323-1328.	4.7	7

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55	Fano effect in the transport of an artificial molecule. <i>Physical Review B</i> , 2018, 97, .	3.2	7
56	High-accuracy compensation of radiative heat loss in Thomson coefficient measurement. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	7
57	Quantum mechanical current-to-voltage conversion with quantum Hall resistance array. <i>Metrologia</i> , 2020, 57, 025004.	1.2	7
58	Normal state spectral lineshapes of nodal quasiparticles in single layer Bi2201 superconductor. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 239-243.	4.0	6
59	Generation of 10 Vrms waveforms using AC-programmable Josephson voltage standard system with 10 K cooler. , 2014, , .		6
60	Transportation Effect and Basic Characteristics of Metal-Foil Resistors Examined in an International Trilateral Pilot Study. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, 64, 1514-1519.	4.7	6
61	Development of a compact Zener DC voltage standard with detachable module system. , 2016, , .		6
62	Review of quantum electrical standards and benefits and effects of the implementation of the "revised SI". <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2017, 12, 627-637.	1.4	6
63	Interplay of the Inverse Proximity Effect and Magnetic Field in Out-of-Equilibrium Single-Electron Devices. <i>Physical Review Applied</i> , 2017, 7, .	3.8	6
64	Error modelling of quantum Hall array resistance standards. <i>Metrologia</i> , 2018, 55, 167-174.	1.2	6
65	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
66	Improvement of yield ratio of ohmic contact to GaAs/AlGaAs heterostructure by application of SiO ₂ protective layer. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 270-273.	0.8	5
67	Uncertainty evaluation of sampling measurement system using AC-programmable Josephson voltage standard. , 2014, , .		5
68	Constriction resistance of physical simulated electrical contacts with nanofabrication. , 2014, , .		5
69	AC/DC Transfer Technique for Measuring Thomson Coefficient: Toward Thermoelectric Metrology. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, , 1-1.	4.7	5
70	Experimental Measurements of Constriction Resistance for Electrical Contacts Simulated Using Microfabrication. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018, 8, 927-931.	2.5	4
71	Review of Josephson Waveform Synthesis and Possibility of New Operation Method by Multibit Delta-Sigma Modulation and Thermometer Code for Its Further Advancement. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 010116.	1.5	4
72	Precise absolute Seebeck coefficient measurement and uncertainty analysis using high- T_c superconductors as a reference. <i>Review of Scientific Instruments</i> , 2020, 91, 014903.	1.3	4

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73	Design and Fabrication of Integrated Cryogenic Current Comparators. IEEE Transactions on Applied Superconductivity, 2011, 21, 728-733.	1.7	3
74	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
75	Development of 10-Vrms sampling measurement system using AC-programmable Josephson voltage standard. , 2014, , .		3
76	Antiperovskite Manganese Nitride Standard Resistor. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1446-1450.	4.7	3
77	Development of 1 Ω and 10 Ω metal foil standard resistors. , 2016, , .		3
78	Development of \$1- Ω and \$10- Ω Metal-Foil Standard Resistors. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1482-1488.	4.7	3
79	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
80	Digital processing with single electrons for arbitrary waveform generation of current. Applied Physics Express, 2018, 11, 036701.	2.4	3
81	Dual-gate control of the surface carriers of the highly-bulk-resistive topological insulator Sn _{0.02} Bi _{1.08} Sb _{0.9} Te ₂ S. Journal of Physics Condensed Matter, 2020, 32, 405704.	1.8	3
82	Development on measurement method for Thomson coefficient of thin film. Measurement: Journal of the International Measurement Confederation, 2021, 185, 110010.	5.0	3
83	Thermal Variations of Magnetic Excitation Spectrum in Slightly Overdoped Bi _{2.1} Sr _{1.9} CaCu ₂ O ₈ + δ . Journal of the Physical Society of Japan, 2009, 78, 074703.	1.6	2
84	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
85	Development of 1-M Ω quantum Hall array resistance standards. , 2016, , .		2
86	Study of Contact Resistance in Connectors With Physical Simulation Using Nanofabrication. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1248-1253.	4.7	2
87	Investigation of Atmospheric-Pressure Dependence of Compact Detachable Zener Module. , 2018, , .		2
88	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
89	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
90	Heat-Driven Electron-Motion in a Nanoscale Electronic Circuit. Journal of the Physical Society of Japan, 2021, 90, .	1.6	2

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91	Review of Josephson Waveform Synthesis and Possibility of New Operation Method by Multibit Delta- σ Modulation and Thermometer Code for Its Further Advancement. Japanese Journal of Applied Physics, 2012, 51, 010116.	1.5	2
92	Reverse heat flow with Peltier-induced thermoinductive effect. Communications Physics, 2021, 4, .	5.3	2
93	New drive system for programmable Josephson voltage standard using pulse packet bias. , 2012, , .		1
94	SINIS turnstile for quantum current standards. , 2014, , .		1
95	Transportation effect of Ni-Cr based metal-foil standard resistors in a trilateral comparison pilot study between KRISS, NIST, and NMIJ. , 2014, , .		1
96	The influence of the thickness of electrodes on constriction resistance in nanofabricated sample for physical simulating of the electrical contacts. , 2015, , .		1
97	Evaluation of the automatic coaxial mechanical scanner for high-resistance measurement use. , 2016, , .		1
98	Evaluation of a resistive voltage divider based on a quantized Hall resistance voltage divider. , 2016, , .		1
99	Measurement of Boltzmann constant using superconducting integrated circuit. , 2016, , .		1
100	Local DC electrical properties of $\text{La}_{2/3}\text{Ni}_{1/3}\text{O}_x$ grain boundaries. Journal of the Ceramic Society of Japan, 2016, 124, 907-910.		
101	Analysis of heat loss for measurement of Thomson coefficient using AC calorimetric method. , 2016, , .		1
102	Characterization of high-stability AC source using AC-programmable Josephson voltage standard system. , 2016, , .		1
103	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
104	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
105	Sampling Measurement of a 20-V RMS Sine Wave Using an Inductive Voltage Divider and an AC-Programmable Josephson Voltage Standard. , 2018, , .		1
106	Precision Measurement of $1 \text{ M}\Omega$ Quantum Hall Resistance Array. , 2018, , .		1
107	Observation of Solder Layers for PJVS Chips Formed with Supersonic-Soldering Method. , 2018, , .		1
108	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

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109	Fabrication of High-Current Multijunction Thermal Current Converters on Silicon Substrates by Wet Chemical Etching. , 2020, , .		1
110	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
111	Application of Antiperovskite Manganese Nitride to Standard Resistor. IEJ Transactions on Fundamentals and Materials, 2016, 136, 448-454.	0.2	1
112	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
113	Subfemtoampere Resolved Ionization Current Measurements Using a High-Resistance Transimpedance Amplifier. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	1
114	Inter Laboratory Comparison of High Resistance Standard in Japan. , 2018, , .		1
115	Native Graphene Oxides at Graphene Edges. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1461-1466.	4.7	0
116	Numerical Analysis of Thermal Stress in a Voltage Standard Chip. , 2015, , .		0
117	Design and Analysis on a Cryogenic Current Amplifier with a Superconducting Microwave Resonator. , 2015, , .		0
118	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
119	Study of contact resistance in connectors with physical simulation using nano-fabrication. , 2016, , .		0
120	Universality test of the quantum Hall effect on topological insulator. , 2016, , .		0
121	A direct DC 10 V comparison between the NIMJ and the BIPM Programmable Josephson Voltage Standards. , 2016, , .		0
122	Investigation of the Influence of Humidity on the Output Voltage of a Prototype of a Compact Detachable Zener Module. , 2020, , .		0
123	Single-surface conduction in a highly bulk-resistive topological insulator Sn _{0.02} Bi _{1.08} Sb _{0.9} Te ₂ S using the Corbino geometry. Applied Physics Letters, 2021, 118, 033102.	3.3	0