

Jonathan M Williams

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

511
citations

687363

13
h-index

752698

20
g-index

20
all docs

20
docs citations

20
times ranked

256
citing authors

#	ARTICLE	IF	CITATIONS
1	Precision comparison of the quantum Hall effect in graphene and gallium arsenide. Metrologia, 2012, 49, 294-306.	1.2	64
2	The simulation and measurement of the response of Josephson junctions to optoelectronically generated short pulses. Superconductor Science and Technology, 2004, 17, 815-818.	3.5	54
3	Development of a 60 Hz Power Standard Using SNS Programmable Josephson Voltage Standards. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 289-294.	4.7	44
4	Characterization of a High-Resolution Analog-to-Digital Converter With a Josephson AC Voltage Source. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 649-652.	4.7	41
5	An automated cryogenic current comparator resistance ratio bridge for routine resistance measurements. Metrologia, 2010, 47, 167-174.	1.2	35
6	Modernizing the SI: towards an improved, accessible and enduring system. Metrologia, 2007, 44, 356-364.	1.2	34
7	Achieving Sub-100-ns Switching of Programmable Josephson Arrays. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 651-654.	4.7	34
8	Cryogenic current comparators and their application to electrical metrology. IET Science, Measurement and Technology, 2011, 5, 211-224.	1.6	34
9	Quantum-referenced voltage waveform synthesiser. IET Science, Measurement and Technology, 2011, 5, 163-174.	1.6	31
10	New Capability for Generating and Measuring Small DC Currents at NPL. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 326-330.	4.7	29
11	Realization of a Quantum Standard for AC Voltage: Overview of a European Research Project. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 628-631.	4.7	27
12	Analysis of different measurement setups for a programmable Josephson voltage standard. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 524-528.	4.7	24
13	The quantum metrology triangle and the redefinition of the SI ampere and kilogram; analysis of a reduced set of observational equations. Metrologia, 2010, 47, 279-286.	1.2	21
14	Automation of a Coaxial Bridge for Calibration of AC Resistors. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 373-377.	4.7	12
15	Design and metrological applications of a low noise, high electrical isolation measurement unit. IET Science, Measurement and Technology, 2009, 3, 165-174.	1.6	12
16	Design Considerations for a CCC Bridge With Complete Digital Control. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3907-3912.	4.7	6
17	Application of a Josephson quantum voltage source to the measurement of microsecond timescale settling time on the Agilent 3458A $\frac{1}{2}$ digit voltmeter. Measurement Science and Technology, 2012, 23, 124006.	2.6	6
18	A low-noise current-sensitive amplifier-discriminator system for beta particle counting. Applied Radiation and Isotopes, 2008, 66, 890-894.	1.5	1

#	ARTICLE	IF	CITATIONS
19	Cryogenic Current Comparators for the Realisation of Electrical Quantum Standards. Mapan - Journal of Metrology Society of India, 2013, 28, 335-340.	1.5	1
20	Application of conserved thermal-noise energy model to damped resonant behavior in cryogenic current comparators. Review of Scientific Instruments, 2020, 91, 105115.	1.3	1