Massimo Ortolano

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5849969/publications.pdf

Version: 2024-02-01

47 papers	335 citations	1040056 9 h-index	996975 15 g-index
47 all docs	47 docs citations	47 times ranked	293 citing authors

#	Article	IF	Citations
1	Metrological Characterization of Consumer-Grade Equipment for Wearable Brainâ€“Computer Interfaces and Extended Reality. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	7
2	Novel digital impedance bridges for the realization of the farad from graphene quantum standards. , 2022, , .		1
3	A Comprehensive Analysis of Error Sources in Electronic Fully Digital Impedance Bridges. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	4.7	12
4	A new calibration setup for lock-in amplifiers in the low frequency range and its validation in a bilateral comparison. Metrologia, 2021, 58, 025001.	1.2	6
5	Design and development of a coaxial cryogenic probe for precision measurements of the quantum Hall effect in the AC regime. Acta IMEKO (2012), 2021, 10, 24.	0.7	1
6	Metrological characterization of a low-cost electroencephalograph for wearable neural interfaces in industry 4.0 applications. , 2021, , .		6
7	A fully digital bridge towards the realization of the farad from the quantum Hall effect. Metrologia, 2021, 58, 015002.	1.2	6
8	Smart Glasses for Visually Evoked Potential Applications: Characterisation of the Optical Output for Different Display Technologies. , 2021, 10, .		0
9	Error sources in electronic fully-digital impedance bridges. , 2020, , .		2
10	A Capacitance Build-Up Method to Determine LCR Meter Errors and Capacitance Transfer. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5727-5735.	4.7	5
11	Implementation of a graphene quantum Hall Kelvin bridge-on-a-chip for resistance calibrations. Metrologia, 2020, 57, 015007.	1.2	4
12	Mapping the conductivity of graphene with Electrical Resistance Tomography. Scientific Reports, 2019, 9, 10655.	3.3	38
13	Atypical quantized resistances in millimeter-scale epitaxial graphene p-n junctions. Carbon, 2019, 154, 230-237.	10.3	19
14	A correlation noise spectrometer for flicker noise measurement in graphene samples. Measurement Science and Technology, 2019, 30, 035102.	2.6	9
15	Update: On the synthesis of quantum Hall array resistance standards (2015 Metrologia) Tj ETQq1 1 0.784314 rgBT /Overlock	1.2	0
16	Practical Precision Electrical Impedance Measurement for the 21st Century â€“ EMPIR Project 17RPT04 VersICal. , 2019, , .		2
17	Role of plasma-induced defects in the generation of 1/f noise in graphene. Applied Physics Letters, 2018, 112, .	3.3	6
18	Error modelling of quantum Hall array resistance standards. Metrologia, 2018, 55, 167-174.	1.2	6

#	Article	IF	Citations
19	A Quantum Hall Effect Kelvin Bridge for Resistance Calibration. , 2018, , .		2
20	An international comparison of phase angle standards between the novel impedance bridges of CMI, INRIM and METAS. Metrologia, 2018, 55, 499-512.	1.2	21
21	Noise characterization of analog to digital converters for amplitude and phase noise measurements. Review of Scientific Instruments, 2017, 88, 065108.	1.3	12
22	A Three-Arm Current Comparator Digitally Assisted Bridge for the Comparison of Arbitrary Four Terminal-Pair Impedances. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1496-1502.	4.7	4
23	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
24	Self-Compensating Networks for Four-Terminal-Pair Impedance Definition in Current Comparator Bridges. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1149-1155.	4.7	6
25	Determination of impedance meter nonlinearity with a capacitance build-up method. , 2016, , .		1
26	A three-arm four terminal-pair digitally-assisted current comparator bridge for the comparison of arbitrary complex impedances. , 2016, , .		2
27	Digital electronics based on red pitaya platform for coherent fiber links. , 2016, , .		6
28	Self-compensating networks for four terminal-pair impedance definition in current comparator bridges. , 2015, , .		2
29	On the synthesis of quantum Hall array resistance standards. Metrologia, 2015, 52, 31-39.	1.2	22
30	Simple method for ADC characterization under the frame of digital PM and AM noise measurement. , 2015, , .		3
31	A Three-Arm Current Comparator Bridge for Impedance Comparisons Over the Complex Plane. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1466-1471.	4.7	8
32	Experiences With a Two-Terminal-Pair Digital Impedance Bridge. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1460-1465.	4.7	40
33	Circuit models and SPICE macro-models for quantum Hall effect devices. Measurement Science and Technology, 2015, 26, 085018.	2.6	8
34	A precise two-channel digitally synthesized AC voltage source for impedance metrology. , 2014, , .		19
35	Development of an in-line calibration system for flow-through cells for low electrolytic conductivity values. Accreditation and Quality Assurance, 2014, 19, 11-16.	0.8	2
36	Experiences with a two terminal-pair digital impedance bridge. , 2014, , .		2

#	Article	IF	Citations
37	Equilibrium noise correlations in quantum Hall effect devices as a test of a formula by BÃ¼ttiker. Europhysics Letters, 2013, 101, 50003.	2.0	1
38	Reference measurement system for low electrolytic conductivity values with a flowing solution. Measurement Science and Technology, 2013, 24, 035903.	2.6	6
39	Matrix method analysis of quantum Hall effect device connections. Metrologia, 2012, 49, 1-7.	1.2	14
40	Noise and cross-correlation spectra of quantum hall devices. , 2012, , .		1
41	Short Communication: Improvements to INRIM Johnson Noise Thermometer. International Journal of Thermophysics, 2010, 31, 1396-1398.	2.1	1
42	Systematic errors in the correlation method for Johnson noise thermometry: residual correlations due to amplifiers. Metrologia, 2010, 47, 272-278.	1.2	9
43	Correlation method errors in Johnson noise thermometry. , 2010, , .		0
44	Voltage traceability of Johnson noise thermometry by ac-dc transfer method. , 2010, , .		1
45	The period of a free-swinging pendulum in adiabatic and non-adiabatic gravitational potential variations. Metrologia, 2009, 46, 119-124.	1.2	2
46	Toward the Determination of G With a Simple Pendulum. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 249-252.	4.7	3
47	Realization and metrological characterization of a compact high-resolution pendulum tiltmeter. IEEE Sensors Journal, 2005, 5, 26-31.	4.7	4