Frederic

List of Publications by Year
in descending order

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43 papers	1,056 citations	430874 18 h-index	501196 28 g-index
43 all docs	43 docs citations	43 times ranked	611 citing authors

#	Article	IF	Citations
1	Impedance Metrology: Bridging the LFâ€“RF Gap. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	1
2	Impedance Metrology: Bridging the LF-RF Gap. , 2020, , .		1
3	Application of electrochemical impedance spectroscopy to commercial Li-ion cells: A review. Journal of Power Sources, 2020, 480, 228742.	7.8	334
4	The EMPIR Project GIQS: Graphene Impedance Quantum Standard. , 2020, , .		1
5	Dual Josephson Impedance Bridge: Universal bridge for impedance metrology. , 2020, , .		0
6	Load compensation bridge for Josephson arbitrary waveform synthesizers. Measurement Science and Technology, 2020, 31, 055004.	2.6	4
7	Dual Josephson impedance bridge: towards a universal bridge for impedance metrology. Metrologia, 2020, 57, 065014.	1.2	17
8	Frequency Dependence Evaluation of CENAM Calculable Resistors. , 2018, , .		1
9	Characterization of a Dual Josephson Impedance Bridge. , 2018, , .		1
10	Observation of High Accuracy Resistance Quantization in CVD Graphene. , 2018, , .		0
11	Impedance bridges: from Wheatstone to Josephson. Metrologia, 2018, 55, S119-S134.	1.2	34
12	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
13	AC Quantum Hall Effect in Epitaxial Graphene. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1459-1466.	4.7	12
14	Calibration of an LCR -Meter at Arbitrary Phase Angles Using a Fully Automated Impedance Simulator. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1516-1523.	4.7	18
15	Restoring the Electrical Properties of CVD Graphene via Physisorption of Molecular Adsorbates. ACS Applied Materials & Interfaces, 2017, 9, 25014-25022.	8.0	27
16	Josephson-based full digital bridge for high-accuracy impedance comparisons. , 2016, , .		4
17	Josephson-based full digital bridge for high-accuracy impedance comparisons. Metrologia, 2016, 53, 1045-1053.	1.2	46
18	Comparative study of single and multi domain CVD graphene using largeâ€area Raman mapping and electrical transport characterization. Physica Status Solidi - Rapid Research Letters, 2016, 10, 807-811.	2.4	12

#	ARTICLE	IF	CITATIONS
19	Josephson-based characterization of analog-to-digital converters using an equivalent time sampling method. , 2016, , .		0
20	Calibration of a LCR-meter at arbitrary phase angles using a fully automated impedance simulator. , 2016, , .		2
21	Characterization of HMDS treated CVD graphene. , 2016, , .		1
22	Broadband fully automated digitally assisted coaxial bridge for high accuracy impedance ratio measurements. Metrologia, 2016, 53, 918-926.	1.2	25
23	Synchronization of Sampling-Based Measuring Systesm. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 89-95.	4.7	18
24	Impedance simulator for automatic calibration of LCR-meters. , 2014, , .		5
25	Digitally assisted coaxial bridge for automatic quantum Hall effect measurements at audio frequencies. , 2014, , .		4
26	Inductive voltage divider calibration with sampling method. EPJ Web of Conferences, 2014, 77, 00014.	0.3	9
27	The Josephson locked synthesizer. Measurement Science and Technology, 2012, 23, 124004.	2.6	4
28	Impedance simulator for automatic calibration of LCR meters over the entire complex plan. , 2012, , .		9
29	A high voltage josephson-voltage-standard-locked synthesizer. , 2012, , .		4
30	Thermal-Transfer Standard Validation of the Josephson-Voltage-Standard-Locked Sine-Wave Synthesizer. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2372-2377.	4.7	30
31	RLC Bridge Based on an Automated Synchronous Sampling System. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2393-2398.	4.7	48
32	Characterization of Metrological Grade Analog-to-Digital Converters Using a Programmable Josephson Voltage Standard. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2172-2177.	4.7	54
33	High precision comparison between a programmable and a pulse-driven Josephson voltage standard. Metrologia, 2011, 48, 311-316.	1.2	30
34	Realization of an inductance scale traceable to the quantum Hall effect using an automated synchronous sampling system. Metrologia, 2010, 47, 690-698.	1.2	37
35	Strong Attenuation of the Transients' Effect in Square Waves Synthesized With a Programmable Josephson Voltage Standard. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1894-1899.	4.7	13
36	Compendium for precise ac measurements of the quantum Hall resistance. Metrologia, 2009, 46, R1-R11.	1.2	32

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37	Josephson-Voltage-Standard-Locked Sine Wave Synthesizer: Margin Evaluation and Stability. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 791-796.	4.7	44
38	The quantized Hall resistance: towards a primary standard of impedance. Metrologia, 2006, 43, 409-413.	1.2	31
39	NRC-METAS-PTB Collaboration Part 3: Frequency, Current and Field Dependence in the Quantized Hall and Longitudinal Ac Resistance. , 2004, , .		0
40	Effects of metallic gates on ac measurements of the quantum hall resistance. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 574-578.	4.7	22
41	The european acqhe project: modular system for the calibration of capacitance standards based on the quantum hall effect. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 563-568.	4.7	21
42	Optimization of QHE-devices for metrological applications. IEEE Transactions on Instrumentation and Measurement, 2001, 50, 218-222.	4.7	22
43	Thermal stability of Si/Si1 â˜' x â˜' yGexCy/Si heterostructures grown by rapid thermal chemical vapor deposition. Journal of Crystal Growth, 1995, 157, 414-419.	1.5	57