

Stephen Giblin

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,060
citations

567281

15
h-index

580821

25
g-index

30
all docs

30
docs citations

30
times ranked

662
citing authors

#	ARTICLE	IF	CITATIONS
1	Directly Comparing the Current from Two Electron Pumps. , 2020, , .		1
2	Calibration of Sensitive Ammeters Using a Noiseless Electron Pump. , 2020, , .		0
3	The next generation of current measurement for ionization chambers. Applied Radiation and Isotopes, 2020, 163, 109216.	1.5	12
4	Realisation of a quantum current standard at liquid helium temperature with sub-ppm reproducibility. Metrologia, 2020, 57, 025013.	1.2	23
5	Results and model for single-gate ratchet charge pumping. Journal of Applied Physics, 2020, 127, 094301.	2.5	3
6	Evidence for universality of tunable-barrier electron pumps. Metrologia, 2019, 56, 044004.	1.2	40
7	Interlaboratory Nanoamp Current Comparison With Subpart-Per-Million Uncertainty. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1996-2002.	4.7	8
8	Re-evaluation of uncertainty for calibration of 100 M Ω , and 1 G Ω , resistors at NPL. Metrologia, 2019, 56, 015014.	1.2	6
9	Exploring a new ammeter traceability route for ionisation chamber measurements. Review of Scientific Instruments, 2019, 90, 014705.	1.3	3
10	Inter-Laboratory Nanoamp Current Comparison with Sub-Part-Per-Million Uncertainty. , 2018, , .		2
11	Robust operation of a GaAs tunable barrier electron pump. Metrologia, 2017, 54, 299-306.	1.2	27
12	High-accuracy current generation in the nanoampere regime from a silicon single-trap electron pump. Scientific Reports, 2017, 7, 45137.	3.3	34
13	Scaling the current from a GHz electron pump using a CCC. , 2016, , .		2
14	High-resolution error detection in the capture process of a single-electron pump. Applied Physics Letters, 2016, 108, 023502.	3.3	15
15	Gigahertz single-electron pumping in silicon with an accuracy better than 9.2 parts in 10 ⁷ . Applied Physics Letters, 2016, 109, .	3.3	57
16	Precision measurement of a potential-profile tunable single-electron pump. Metrologia, 2015, 52, 195-200.	1.2	86
17	Validation of the ultrastable low-noise current amplifier as travelling standard for small direct currents. Metrologia, 2015, 52, 756-763.	1.2	32
18	Sub-ppm measurements of single-electron pump currents. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
19	Introducing Joint Research Project Â«Quantum AmpereÂ» for the realisation of the new SI ampere. EPJ Web of Conferences, 2014, 77, 00004.	0.3	3
20	Clock-Controlled Emission of Single-Electron Wave Packets in a Solid-State Circuit. Physical Review Letters, 2013, 111, 216807.	7.8	112
21	NbSi nanowire quantum phase-slip circuits: dc supercurrent blockade, microwave measurements, and thermal analysis. Physical Review B, 2013, 87, .	3.2	48
22	Gigahertz quantized charge pumping in graphene quantum dots. Nature Nanotechnology, 2013, 8, 417-420.	31.5	117
23	Rectification in mesoscopic alternating current-gated semiconductor devices. Journal of Applied Physics, 2013, 114, 164505.	2.5	14
24	Stabilization of single-electron pumps by high magnetic fields. Physical Review B, 2012, 86, .	3.2	49
25	Towards a quantum representation of the ampere using single electron pumps. Nature Communications, 2012, 3, 930.	12.8	203
26	Tunable Nonadiabatic Excitation in a Single-Electron Quantum Dot. Physical Review Letters, 2011, 106, 126801.	7.8	64
27	Single- and few-electron dynamic quantum dots in a perpendicular magnetic field. Journal of Applied Physics, 2011, 109, .	2.5	11
28	An accurate high-speed single-electron quantum dot pump. New Journal of Physics, 2010, 12, 073013.	2.9	54
29	APPLIED PHYSICS: One Electron Makes Current Flow. Science, 2007, 316, 1130-1131.	12.6	2
30	New Capability for Generating and Measuring Small DC Currents at NPL. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 326-330.	4.7	29