Mattias Kruskopf

List of Publications by Year in Descending Order

42 papers	437 citations	13 h-index	19 g-index
53 ext. papers	633 ext. citations	3.8 avg, IF	3.55 L-index

#	Paper	IF	Citations
42	A four-terminal-pair Josephson impedance bridge combined with a graphene-quantized Hall resistance. *Measurement Science and Technology*, **2021**, 32, 065007	2	3
41	Graphene Quantum Hall Effect Devices for AC and DC Electrical Metrology. *IEEE Transactions on Electron Devices*, **2021**, 68, 3672-3677	2.9	1
40	Graphene quantum Hall effect parallel resistance arrays. *Physical Review B*, **2021**, 103,	3.3	2
39	Highly sensitive broadband binary photoresponse in gateless epitaxial graphene on 4H□SiC. *Carbon*, **2021**, 184, 72-81	10.4	1
38	Magnetotransport in hybrid InSe/monolayer graphene on SiC. *Nanotechnology*, **2021**, 32, 155704	3.4	1
37	Development of gateless quantum Hall checkerboard p□ junction devices. *Journal Physics D: Applied Physics*, **2020**, 53, 345302	3	
36	Analysing quantized resistance behaviour in graphene Corbino junction devices. *Journal Physics D: Applied Physics*, **2020**, 53,	3	3
35	Quantum Hall resistance dartboards using graphene p-n junction devices with Corbino geometries. *AIP Advances*, **2020**, 10, 035205	1.5	3
34	Nanostructured graphene for nanoscale electron paramagnetic resonance spectroscopy. *JPhys Materials*, **2020**, 3, 014013	4.2	4
33	Accessing ratios of quantized resistances in graphene p□ junction devices using multiple terminals. *AIP Advances*, **2020**, 10, 025112	1.5	3
32	Implementation of a graphene quantum Hall Kelvin bridge-on-a-chip for resistance calibrations. *Metrologia*, **2020**, 57,	2.1	2
31	Analytical determination of atypical quantized resistances in graphene junctions. *Physica B: Condensed Matter*, **2020**, 582,	2.8	1
30	A Self-Assembled Graphene Ribbon Device on SiC. *ACS Applied Electronic Materials*, **2020**, 2, 204-212	4	0
29	Analytical determination of atypical quantized resistances in graphene p-n junctions. *Physica B: Condensed Matter*, **2020**, 582, 411971	2.8	6
28	Graphene quantum Hall effect devices for AC and DC resistance metrology **2020**,		2
27	The EMPIR Project GIQS: Graphene Impedance Quantum Standard **2020**,		1
26	Superconducting Contact Geometries for Next-Generation Quantized Hall Resistance Standards. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 1.633481E6,	5.2	1

25	AC Quantum Hall Resistance combined with a Four-Terminal Pair Pulse-Driven Josephson Impedance Bridge **2020**,		3
24	Comparison between Graphene and GaAs Quantized Hall Devices with a Dual Probe. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 9374-9380	5.2	0
23	Next-generation crossover-free quantum Hall arrays with superconducting interconnections. *Metrologia*, **2019**, 56,	2.1	13
22	Atypical Quantized Resistances in Millimeter-Scale Epitaxial Graphene Junctions. *Carbon*, **2019**, 154, 230-230	10.4	10
21	Two-Terminal and Multi-Terminal Designs for Next-Generation Quantized Hall Resistance Standards: Contact Material and Geometry. *IEEE Transactions on Electron Devices*, **2019**, 66,	2.9	19
20	Gateless and reversible carrier density tunability in epitaxial graphene devices functionalized with chromium tricarbonyl. *Carbon*, **2019**, 142, 468-468	10.4	22
19	Comparison between NIST Graphene and AIST GaAs Quantized Hall Devices. *IEEE Transactions on Instrumentation and Measurement*, **2019**,	5.2	7
18	Examining epitaxial graphene surface conductivity and quantum Hall device stability with Parylene passivation. *Microelectronic Engineering*, **2018**, 194, 51-55	2.5	12
17	Infrared Nanospectroscopy of Phospholipid and Surfactin Monolayer Domains. *ACS Omega*, **2018**, 3, 4141-4147	3.9	19
16	Minimum Resistance Anisotropy of Epitaxial Graphene on SiC. *ACS Applied Materials & Interfaces*, **2018**, 10, 6039-6045	9.5	33
15	Compressed sensing FTIR nano-spectroscopy and nano-imaging. *Optics Express*, **2018**, 26, 18115-18124	3.3	14
14	Graphene Devices for Tabletop and High-Current Quantized Hall Resistance Standards. *IEEE Transactions on Instrumentation and Measurement*, **2018**, 68,	5.2	17
13	A Table-Top Graphene Quantized Hall Standard **2018**,		3
12	Epitaxial Graphene for High-Current QHE Resistance Standards **2018**,		1
11	Uncertainty of the Ohm Using Cryogenic and Non-Cryogenic Bridges **2018**,		2
10	Confocal laser scanning microscopy for rapid optical characterization of graphene. *Communications Physics*, **2018**, 1,	5.4	24
9	Towards epitaxial graphene p-n junctions as electrically programmable quantum resistance standards. *Scientific Reports*, **2018**, 8, 15018	4.9	19
8	Quantum Hall device data monitoring following encapsulating polymer deposition. *Data in Brief*, **2018**, 20, 1201-1208	1.2	3

7	Epitaxial graphene for quantum resistance metrology. *Metrologia*, **2018**, 55,	2.1	23
6	A morphology study on the epitaxial growth of graphene and its buffer layer. *Thin Solid Films*, **2018**, 659, 7-15	2.2	17
5	AC Quantum Hall Effect in Epitaxial Graphene. *IEEE Transactions on Instrumentation and Measurement*, **2017**, 66, 1459-1466	5.2	7
4	Magnetocapacitance and dissipation factor of epitaxial graphene-based quantum Hall effect devices. *Physical Review B*, **2017**, 96,	3.3	5
3	Comeback of epitaxial graphene for electronics: large-area growth of bilayer-free graphene on SiC. *2D Materials*, **2016**, 3, 041002	5.9	95
2	Nonequilibrium mesoscopic conductance fluctuations as the origin of 1/f noise in epitaxial graphene. *Physical Review B*, **2016**, 94,	3.3	10
1	Epitaxial graphene on SiC: modification of structural and electron transport properties by substrate pretreatment. *Journal of Physics Condensed Matter*, **2015**, 27, 185303	1.8	23