

Mattias Kruskopf

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Comeback of epitaxial graphene for electronics: large-area growth of bilayer-free graphene on SiC. <i>2D Materials</i> , 2016 , 3, 041002	5.9	95
41	Minimum Resistance Anisotropy of Epitaxial Graphene on SiC. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6039-6045	9.5	33
40	Confocal laser scanning microscopy for rapid optical characterization of graphene. <i>Communications Physics</i> , 2018 , 1,	5.4	24
39	Epitaxial graphene on SiC: modification of structural and electron transport properties by substrate pretreatment. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 185303	1.8	23
38	Epitaxial graphene for quantum resistance metrology. <i>Metrologia</i> , 2018 , 55,	2.1	23
37	Gateless and reversible carrier density tunability in epitaxial graphene devices functionalized with chromium tricarbonyl. <i>Carbon</i> , 2019 , 142, 468-468	10.4	22
36	Two-Terminal and Multi-Terminal Designs for Next-Generation Quantized Hall Resistance Standards: Contact Material and Geometry. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66,	2.9	19
35	Infrared Nanospectroscopy of Phospholipid and Surfactin Monolayer Domains. <i>ACS Omega</i> , 2018 , 3, 4141-4147	3.9	19
34	Towards epitaxial graphene p-n junctions as electrically programmable quantum resistance standards. <i>Scientific Reports</i> , 2018 , 8, 15018	4.9	19
33	Graphene Devices for Tabletop and High-Current Quantized Hall Resistance Standards. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018 , 68,	5.2	17
32	A morphology study on the epitaxial growth of graphene and its buffer layer. <i>Thin Solid Films</i> , 2018 , 659, 7-15	2.2	17
31	Compressed sensing FTIR nano-spectroscopy and nano-imaging. <i>Optics Express</i> , 2018 , 26, 18115-18124	3.3	14
30	Next-generation crossover-free quantum Hall arrays with superconducting interconnections. <i>Metrologia</i> , 2019 , 56,	2.1	13
29	Examining epitaxial graphene surface conductivity and quantum Hall device stability with Parylene passivation. <i>Microelectronic Engineering</i> , 2018 , 194, 51-55	2.5	12
28	Atypical Quantized Resistances in Millimeter-Scale Epitaxial Graphene Junctions. <i>Carbon</i> , 2019 , 154, 230-230	2.3	10
27	Nonequilibrium mesoscopic conductance fluctuations as the origin of 1/f noise in epitaxial graphene. <i>Physical Review B</i> , 2016 , 94,	3.3	10
26	AC Quantum Hall Effect in Epitaxial Graphene. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017 , 66, 1459-1466	5.2	7

25	Comparison between NIST Graphene and AIST GaAs Quantized Hall Devices. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 ,	5.2	7
24	Analytical determination of atypical quantized resistances in graphene p-n junctions. <i>Physica B: Condensed Matter</i> , 2020 , 582, 411971	2.8	6
23	Magnetocapacitance and dissipation factor of epitaxial graphene-based quantum Hall effect devices. <i>Physical Review B</i> , 2017 , 96,	3.3	5
22	Nanostructured graphene for nanoscale electron paramagnetic resonance spectroscopy. <i>JPhys Materials</i> , 2020 , 3, 014013	4.2	4
21	Analysing quantized resistance behaviour in graphene Corbino junction devices. <i>Journal Physics D: Applied Physics</i> , 2020 , 53,	3	3
20	Quantum Hall resistance dartboards using graphene p-n junction devices with Corbino geometries. <i>AIP Advances</i> , 2020 , 10, 035205	1.5	3
19	Accessing ratios of quantized resistances in graphene p \bar{n} junction devices using multiple terminals. <i>AIP Advances</i> , 2020 , 10, 025112	1.5	3
18	AC Quantum Hall Resistance combined with a Four-Terminal Pair Pulse-Driven Josephson Impedance Bridge 2020 ,		3
17	A four-terminal-pair Josephson impedance bridge combined with a graphene-quantized Hall resistance. <i>Measurement Science and Technology</i> , 2021 , 32, 065007	2	3
16	A Table-Top Graphene Quantized Hall Standard 2018 ,		3
15	Quantum Hall device data monitoring following encapsulating polymer deposition. <i>Data in Brief</i> , 2018 , 20, 1201-1208	1.2	3
14	Implementation of a graphene quantum Hall Kelvin bridge-on-a-chip for resistance calibrations. <i>Metrologia</i> , 2020 , 57,	2.1	2
13	Graphene quantum Hall effect devices for AC and DC resistance metrology 2020 ,		2
12	Graphene quantum Hall effect parallel resistance arrays. <i>Physical Review B</i> , 2021 , 103,	3.3	2
11	Uncertainty of the Ohm Using Cryogenic and Non-Cryogenic Bridges 2018 ,		2
10	Analytical determination of atypical quantized resistances in graphene junctions. <i>Physica B: Condensed Matter</i> , 2020 , 582,	2.8	1
9	The EMPIR Project GIQS: Graphene Impedance Quantum Standard 2020 ,		1
8	Superconducting Contact Geometries for Next-Generation Quantized Hall Resistance Standards. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 1.633481E6,	5.2	1

7	Graphene Quantum Hall Effect Devices for AC and DC Electrical Metrology. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 3672-3677	2.9	1
6	Epitaxial Graphene for High-Current QHE Resistance Standards 2018 ,		1
5	Highly sensitive broadband binary photoresponse in gateless epitaxial graphene on 4H β SiC. <i>Carbon</i> , 2021 , 184, 72-81	10.4	1
4	Magnetotransport in hybrid InSe/monolayer graphene on SiC. <i>Nanotechnology</i> , 2021 , 32, 155704	3.4	1
3	A Self-Assembled Graphene Ribbon Device on SiC. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 204-212	4	0
2	Comparison between Graphene and GaAs Quantized Hall Devices with a Dual Probe. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 9374-9380	5.2	0
1	Development of gateless quantum Hall checkerboard p \bar{n} junction devices. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 345302	3	