

David B Newell

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

4,831
citations

257450

24
h-index

302126

39
g-index

40
all docs

40
docs citations

40
times ranked

4901
citing authors

#	ARTICLE	IF	CITATIONS
19	Electrical Stabilization of Surface Resistivity in Epitaxial Graphene Systems by Amorphous Boron Nitride Encapsulation. ACS Omega, 2017, 2, 2326-2332.	3.5	34
20	Two-Terminal and Multi-Terminal Designs for Next-Generation Quantized Hall Resistance Standards: Contact Material and Geometry. IEEE Transactions on Electron Devices, 2019, 66, 3973-3977.	3.0	34
21	Graphene Devices for Tabletop and High-Current Quantized Hall Resistance Standards. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1870-1878.	4.7	32
22	Towards epitaxial graphene p-n junctions as electrically programmable quantum resistance standards. Scientific Reports, 2018, 8, 15018.	3.3	31
23	Next-generation crossover-free quantum Hall arrays with superconducting interconnections. Metrologia, 2019, 56, 065002.	1.2	30
24	Preservation of Surface Conductivity and Dielectric Loss Tangent in Large-Scale, Encapsulated Epitaxial Graphene Measured by Noncontact Microwave Cavity Perturbations. Small, 2017, 13, 1700452.	10.0	29
25	Measuring the dielectric and optical response of millimeter-scale amorphous and hexagonal boron nitride films grown on epitaxial graphene. 2D Materials, 2018, 5, 011011.	4.4	24
26	Quantum transport in graphene p-n junctions with moiré superlattice modulation. Physical Review B, 2018, 98, .	11.2	21
27	Comprehensive optical characterization of atomically thin NbSe ₂ . Physical Review B, 2018, 98, .	11.2	20
28	Atypical quantized resistances in millimeter-scale epitaxial graphene p-n junctions. Carbon, 2019, 154, 230-237.	10.3	19
29	The Design and Development of a Tabletop Kibble Balance at NIST. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2176-2182.	4.7	18
30	Probing the dielectric response of the interfacial buffer layer in epitaxial graphene via optical spectroscopy. Physical Review B, 2017, 96, .	3.2	17
31	Analytical determination of atypical quantized resistances in graphene p-n junctions. Physica B: Condensed Matter, 2020, 582, 411971.	2.7	15
32	The performance of the KIBB-g1 tabletop Kibble balance at NIST. Metrologia, 2020, 57, 035014.	1.2	13
33	Resource Letter FC-1: The physics of fundamental constants. American Journal of Physics, 2010, 78, 338-358.	0.7	8
34	Advances in Determination of Fundamental Constants. Journal of Physical and Chemical Reference Data, 2015, 44, .	4.2	8
35	Magnet System for the Quantum Electromechanical Metrology Suite. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5736-5744.	4.7	7
36	Accessing ratios of quantized resistances in graphene p-n junction devices using multiple terminals. AIP Advances, 2020, 10, 025112.	1.3	6

#	ARTICLE	IF	CITATIONS
37	Dielectric Properties of Nb _x W _{1-x} Se ₂ Alloys. Journal of Research of the National Institute of Standards and Technology, 2019, 124, 1-10.	1.2	3
38	Comparison Between Graphene and GaAs Quantized Hall Devices With a Dual Probe. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9374-9380.	4.7	2
39	Design of an enhanced mechanism for a new Kibble balance directly traceable to the quantum SI. EPJ Techniques and Instrumentation, 2022, 9, .	1.3	1
40	Design of Electrostatic Feedback for an Experiment to Measure $\langle i \rangle G \langle i \rangle$. , 2022, 1, 1-10.		0