

Gerard J Verbiest

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3215107/publications.pdf>

Version: 2024-02-01

25
papers

478
citations

759233

12
h-index

677142

22
g-index

28
all docs

28
docs citations

28
times ranked

721
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoelectromechanical Sensors Based on Suspended 2D Materials. Research, 2020, 2020, 8748602.	5.7	93
2	Tailoring Mechanically Tunable Strain Fields in Graphene. Nano Letters, 2018, 18, 1707-1713.	9.1	58
3	Beating beats mixing in heterodyne detection schemes. Nature Communications, 2015, 6, 6444.	12.8	37
4	Detecting Ultrasound Vibrations with Graphene Resonators. Nano Letters, 2018, 18, 5132-5137.	9.1	36
5	Uniformity of the pseudomagnetic field in strained graphene. Physical Review B, 2015, 92, .	3.2	35
6	Subsurface atomic force microscopy: towards a quantitative understanding. Nanotechnology, 2012, 23, 145704.	2.6	26
7	Subsurface-AFM: sensitivity to the heterodyne signal. Nanotechnology, 2013, 24, 365701.	2.6	26
8	Resonance frequencies of AFM cantilevers in contact with a surface. Ultramicroscopy, 2016, 171, 70-76.	1.9	23
9	Acoustic subsurface-atomic force microscopy: Three-dimensional imaging at the nanoscale. Journal of Applied Physics, 2021, 129, .	2.5	16
10	Tunable mechanical coupling between driven microelectromechanical resonators. Applied Physics Letters, 2016, 109, .	3.3	15
11	Cantilever dynamics in heterodyne force microscopy. Ultramicroscopy, 2013, 135, 113-120.	1.9	14
12	Nonequilibrium thermodynamics of acoustic phonons in suspended graphene. Physical Review Research, 2020, 2, .	3.6	13
13	Fabrication of comb-drive actuators for straining nanostructured suspended graphene. Nanotechnology, 2018, 29, 375301.	2.6	11
14	Subsurface contrast due to friction in heterodyne force microscopy. Nanotechnology, 2017, 28, 085704.	2.6	10
15	Self-Sealing Complex Oxide Resonators. Nano Letters, 2022, 22, 1475-1482.	9.1	10
16	High speed collision and reconnection of Abelian Higgs strings in the deep type-II regime. Physical Review D, 2011, 84, .	4.7	9
17	Higher Order Intercommutations in Cosmic String Collisions. Physical Review Letters, 2010, 105, 021601.	7.8	8
18	A subsurface add-on for standard atomic force microscopes. Review of Scientific Instruments, 2015, 86, 033704.	1.3	8

#	ARTICLE	IF	CITATIONS
19	Interplay between nanometer-scale strain variations and externally applied strain in graphene. Physical Review B, 2016, 93, .	3.2	8
20	Tunable coupling of two mechanical resonators by a graphene membrane. 2D Materials, 2021, 8, 035039.	4.4	8
21	Phonon scattering at kinks in suspended graphene. Physical Review B, 2020, 101, .	3.2	5
22	Integrated impedance bridge for absolute capacitance measurements at cryogenic temperatures and finite magnetic fields. Review of Scientific Instruments, 2019, 90, 084706.	1.3	3
23	Optical Sensing of Chlorophyll(in) With Dual-Spectrum Si LEDs in SOI-CMOS Technology. IEEE Sensors Journal, 2022, 22, 11280-11289.	4.7	3
24	Optical absorption sensing with dual-spectrum silicon LEDs in SOI-CMOS technology. , 2020, , .		1
25	Engineering Tunable Strain Fields in Suspended Graphene by Microelectromechanical Systems. , 2019, , .		0