

Christopher J Mellor

List of Publications by Year in descending order

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57
papers

1,655
citations

331670

21
h-index

289244

40
g-index

57
all docs

57
docs citations

57
times ranked

2733
citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying carbon as the source of visible single-photon emission from hexagonal boron nitride. Nature Materials, 2021, 20, 321-328.	27.5	210
2	When Ellipsometry Works Best: A Case Study With Transparent Conductive Oxides. ACS Photonics, 2020, 7, 2692-2702.	6.6	10
3	Magnetic flux quantum periodicity of the frequency of the on-chip detectable electromagnetic radiation from superconducting flux-flow-oscillators. Applied Physics Letters, 2020, 117, 142601.	3.3	4
4	Direct band-gap crossover in epitaxial monolayer boron nitride. Nature Communications, 2019, 10, 2639.	12.8	162
5	Photoquantum Hall Effect and Light-Induced Charge Transfer at the Interface of Graphene/InSe Heterostructures. Advanced Functional Materials, 2019, 29, 1805491.	14.9	20
6	High-temperature molecular beam epitaxy of hexagonal boron nitride layers. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2018, 36, .	1.2	31
7	Lattice-Matched Epitaxial Graphene Grown on Boron Nitride. Nano Letters, 2018, 18, 498-504.	9.1	39
8	Moiré-Modulated Conductance of Hexagonal Boron Nitride Tunnel Barriers. Nano Letters, 2018, 18, 4241-4246.	9.1	19
9	An atomic carbon source for high temperature molecular beam epitaxy of graphene. Scientific Reports, 2017, 7, 6598.	3.3	16
10	Magnetic field tunable vortex diode made of YBa ₂ Cu ₃ O ₇ Josephson junction asymmetrical arrays. Applied Physics Letters, 2017, 111, .	3.3	10
11	Hexagonal Boron Nitride Tunnel Barriers Grown on Graphite by High Temperature Molecular Beam Epitaxy. Scientific Reports, 2016, 6, 34474.	3.3	60
12	High temperature MBE of graphene on sapphire and hexagonal boron nitride flakes on sapphire. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2016, 34, .	1.2	22
13	Strain-Engineered Graphene Grown on Hexagonal Boron Nitride by Molecular Beam Epitaxy. Scientific Reports, 2016, 6, 22440.	3.3	49
14	High Broad-Band Photoresponsivity of Mechanically Formed InSe-Graphene van der Waals Heterostructures. Advanced Materials, 2015, 27, 3760-3766.	21.0	320
15	Ligand-Induced Control of Photoconductive Gain and Doping in a Hybrid Graphene-Quantum Dot Transistor. Advanced Electronic Materials, 2015, 1, 1500062.	5.1	59
16	Flux-coherent series SQUID array magnetometers operating above 77 K with superior white flux noise than single-SQUIDs at 4.2 K. Applied Physics Letters, 2015, 107, .	3.3	24
17	Photonic biosensor chip for early-stage cancer diagnosis. , 2015, , .		2
18	Graphene-InSe-graphene van der Waals heterostructures. Journal of Physics: Conference Series, 2015, 647, 012001.	0.4	11

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19	Fabrication of stable, low optical loss rib-waveguides via embossing of sputtered chalcogenide glass-film on glass-chip. <i>Optical and Quantum Electronics</i> , 2015, 47, 351-361.	3.3	12
20	III-V semiconductor waveguides for photonic functionality at 780 nm. , 2014, , .		1
21	Mid-infrared integrated optics: versatile hot embossing of mid-infrared glasses for on-chip planar waveguides for molecular sensing. <i>Optical Engineering</i> , 2014, 53, 071824.	1.0	18
22	Dual flux-to-voltage response of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ asymmetric parallel arrays of Josephson junctions. <i>Superconductor Science and Technology</i> , 2014, 27, 055019.	3.5	2
23	Amplification of electromagnetic waves excited by a chain of propagating magnetic vortices in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Josephson-junction arrays at 77 K and above. <i>Superconductor Science and Technology</i> , 2014, 27, 085015.	3.5	9
24	Lung function measurement with multiple-breath-helium washout system. <i>Medical Engineering and Physics</i> , 2013, 35, 457-469.	1.7	2
25	Parallel array of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ superconducting Josephson vortex-flow transistors with high current gains. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	6
26	Increased surface flashover voltage in microfabricated devices. <i>Applied Physics Letters</i> , 2013, 103, 143504.	3.3	19
27	Nonlinear modal coupling in a high-stress doubly-clamped nanomechanical resonator. <i>New Journal of Physics</i> , 2012, 14, 113040.	2.9	40
28	Scanning capacitance imaging of compressible and incompressible quantum Hall effect edge strips. <i>New Journal of Physics</i> , 2012, 14, 083015.	2.9	31
29	Andreev reflection and spin polarization of SrRuO_3 thin films on $\text{SrTiO}_3(111)$. <i>Journal of Physics: Conference Series</i> , 2011, 303, 012068.	0.4	0
30	Spin polarization of $(\text{Ga,Mn})\text{As}$ measured by Andreev spectroscopy: The role of spin-active scattering. <i>Physical Review B</i> , 2011, 83, .	3.2	29
31	Dissipation in a Gold Nanomechanical Resonator at Low Temperatures. <i>Journal of Low Temperature Physics</i> , 2010, 158, 685-691.	1.4	6
32	Dissipation due to tunneling two-level systems in gold nanomechanical resonators. <i>Physical Review B</i> , 2010, 81, .	3.2	37
33	Current-voltage characteristics of zinc-blende (cubic) $\text{Al}_{0.3}\text{Ga}_{0.7}\text{N}/\text{GaN}$ double barrier resonant tunneling diodes. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	23
34	Low-temperature and high magnetic field dynamic scanning capacitance microscope. <i>Review of Scientific Instruments</i> , 2009, 80, 013704.	1.3	6
35	Magnetoanisotropy of electron-correlation-enhanced tunneling through a quantum dot. <i>Physical Review B</i> , 2007, 75, .	3.2	20
36	Missing conductivity peak in a surface acoustic wave measurement at $\hat{1}/2=23$. <i>Physical Review B</i> , 2007, 75, .	3.2	6

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37	1/f Noise In Low Density Two-Dimensional Hole Systems In GaAs. AIP Conference Proceedings, 2005, , .	0.4	0
38	Variable temperature magnetic force microscopy with piezoelectric quartz tuning forks as probes optimized using Q-control. Applied Physics Letters, 2005, 87, 214106.	3.3	5
39	Microwave resonance susceptibility of a two-dimensional hole system in a weak random potential. Physical Review B, 2005, 71, .	3.2	0
40	Determining phase boundaries and vapour/liquid critical points in supercritical fluids: a multi-technique approach. Journal of Supercritical Fluids, 2004, 30, 259-272.	3.2	20
41	Resistance noise scaling in a dilute two-dimensional hole system in GaAs. , 2004, , .		2
42	Probing the Vapor-Liquid Phase Behaviors of Near-Critical and Supercritical Fluids Using a Shear Mode Piezoelectric Sensor. Analytical Chemistry, 2003, 75, 479-485.	6.5	18
43	Graphical computing in the undergraduate laboratory: Teaching and interfacing with LabVIEW. American Journal of Physics, 2003, 71, 1062-1074.	0.7	26
44	Dynamic force microscopy in superfluid helium. Applied Physics Letters, 2002, 81, 916-918.	3.3	8
45	Surface acoustic wave attenuation by the localized states of a two-dimensional carrier system in a magnetic field. Semiconductor Science and Technology, 2001, 16, 136-139.	2.0	2
46	Finite-wavevector studies of two-dimensional systems. Journal of Physics Condensed Matter, 1999, 11, 7723-7736.	1.8	0
47	Ballistic Heating of a Two-Dimensional Electron System by Phonon Excitation of the Magnetoroton Minimum at $\nu=1/3$. Physical Review Letters, 1999, 82, 5333-5336.	7.8	40
48	Theory of phonon spectroscopy in the fractional quantum Hall regime. Physical Review B, 1999, 60, 10984-10996.	3.2	17
49	Phonon spectroscopy of the fractional quantum Hall effect. Physica Scripta, 1996, T66, 163-166.	2.5	1
50	Phonon Absorption at the Magnetoroton Minimum in the Fractional Quantum Hall Effect. Physical Review Letters, 1995, 74, 2339-2342.	7.8	47
51	Quantum oscillations in the cyclotron phonon emission from a heated two-dimensional electron gas. Physical Review B, 1995, 51, 7085-7089.	3.2	2
52	A patterned gate architecture for the study of high-quality AlGaAs/GaAs systems in the extreme quantum limit. Semiconductor Science and Technology, 1994, 9, 392-397.	2.0	2
53	Phonon emission from the first and second subbands of a two-dimensional electron gas in silicon detected by exciton luminescence. Physical Review B, 1992, 45, 11387-11390.	3.2	9
54	Imaging nonequilibrium phonon-induced backscattering in the quantum Hall regime. Physical Review Letters, 1992, 69, 1684-1686.	7.8	37

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55	Wigner crystallization of ions trapped in superfluid ⁴ He. <i>Physica Scripta</i> , 1991, T35, 145-149.	2.5	3
56	The effective masses of ions trapped below the surface of superfluid ⁴ He. <i>Journal of Physics C: Solid State Physics</i> , 1988, 21, 325-331.	1.5	25
57	Experiments on ions trapped below the surface of superfluid ⁴ He. <i>Journal of Physics C: Solid State Physics</i> , 1986, 19, 1135-1144.	1.5	56