

Matthew Holwill

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

820
citations

623734

14
h-index

713466

21
g-index

24
all docs

24
docs citations

24
times ranked

1449
citing authors

#	ARTICLE	IF	CITATIONS
1	Out-of-equilibrium criticalities in graphene superlattices. <i>Science</i> , 2022, 375, 430-433.	12.6	34
2	Two-dimensional adaptive membranes with programmable water and ionic channels. <i>Nature Nanotechnology</i> , 2021, 16, 174-180.	31.5	86
3	Visualizing atomic structure and magnetism of 2D magnetic insulators via tunneling through graphene. <i>Nature Communications</i> , 2021, 12, 70.	12.8	29
4	Mechanical Properties of Atomically Thin Tungsten Dichalcogenides: WS_2 , WSe_2 , and WTe_2 . <i>ACS Nano</i> , 2021, 15, 2600-2610.	14.6	65
5	Dielectric Breakdown in Single-Crystal Hexagonal Boron Nitride. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3547-3554.	4.3	28
6	Piezoelectricity in Monolayer Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2020, 32, e1905504.	21.0	87
7	Piezoelectric Materials: Piezoelectricity in Monolayer Hexagonal Boron Nitride (<i>Adv. Mater.</i> 1/2020). <i>Advanced Materials</i> , 2020, 32, 2070006.	21.0	0
8	Long-range ballistic transport of Brown-Zak fermions in graphene superlattices. <i>Nature Communications</i> , 2020, 11, 5756.	12.8	25
9	Convergent beam electron diffraction of multilayer Van der Waals structures. <i>Ultramicroscopy</i> , 2020, 212, 112976.	1.9	6
10	Holographic reconstruction of the interlayer distance of bilayer two-dimensional crystal samples from their convergent beam electron diffraction patterns. <i>Ultramicroscopy</i> , 2020, 219, 113020.	1.9	2
11	Field-induced insulating states in a graphene superlattice. <i>Physical Review B</i> , 2019, 99, .	3.2	2
12	Engineering Graphene Flakes for Wearable Textile Sensors <i>via</i> Highly Scalable and Ultrafast Yarn Dyeing Technique. <i>ACS Nano</i> , 2019, 13, 3847-3857.	14.6	179
13	Composite super-moiré lattices in double-aligned graphene heterostructures. <i>Science Advances</i> , 2019, 5, eaay8897.	10.3	74
14	Planar and van der Waals heterostructures for vertical tunnelling single electron transistors. <i>Nature Communications</i> , 2019, 10, 230.	12.8	43
15	Convergent and divergent beam electron holography and reconstruction of adsorbates on free-standing two-dimensional crystals. <i>Frontiers of Physics</i> , 2019, 14, 1.	5.0	7
16	Excess resistivity in graphene superlattices caused by umklapp electron-electron scattering. <i>Nature Physics</i> , 2019, 15, 32-36.	16.7	46
17	Additional Work. <i>Springer Theses</i> , 2019, , 85-91.	0.1	0
18	Graphene hot-electron light bulb: incandescence from hBN-encapsulated graphene in air. <i>2D Materials</i> , 2018, 5, 011006.	4.4	43

#	ARTICLE	IF	CITATIONS
19	Tunnel spectroscopy of localised electronic states in hexagonal boron nitride. Communications Physics, 2018, 1, .	5.3	33
20	Convergent beam electron holography for analysis of van der Waals heterostructures. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7473-7478.	7.1	17
21	Growth of graphene on tantalum and its protective properties. Carbon, 2018, 139, 29-34.	10.3	5
22	Bloch Surface Waves for MoS2 Emission Coupling and Polariton Systems. Applied Sciences (Switzerland), 2017, 7, 1217.	2.5	8