Matthew Holwill

List of Publications by Year
in descending order

22	820	623574	713332
papers	citations	14 h-index	21 g-index

24	24	24	1449
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Engineering Graphene Flakes for Wearable Textile Sensors via Highly Scalable and Ultrafast Yarn Dyeing Technique. ACS Nano, 2019, 13, 3847-3857.	7.3	179
2	Piezoelectricity in Monolayer Hexagonal Boron Nitride. Advanced Materials, 2020, 32, e1905504.	11.1	87
3	Two-dimensional adaptive membranes with programmable water and ionic channels. Nature Nanotechnology, 2021, 16, 174-180.	15.6	86
4	Composite super-moirÃ© lattices in double-aligned graphene heterostructures. Science Advances, 2019, 5, eaay8897.	4.7	74
5	Mechanical Properties of Atomically Thin Tungsten Dichalcogenides: WS₂, WSe₂, and WTe₂. ACS Nano, 2021, 15, 2600-2610.	7.3	65
6	Excess resistivity in graphene superlattices caused by umklapp electronâ€“electron scattering. Nature Physics, 2019, 15, 32-36.	6.5	46
7	Graphene hot-electron light bulb: incandescence from hBN-encapsulated graphene in air. 2D Materials, 2018, 5, 011006.	2.0	43
8	Planar and van der Waals heterostructures for vertical tunnelling single electron transistors. Nature Communications, 2019, 10, 230.	5.8	43
9	Out-of-equilibrium criticalities in graphene superlattices. Science, 2022, 375, 430-433.	6.0	34
10	Tunnel spectroscopy of localised electronic states in hexagonal boron nitride. Communications Physics, 2018, 1, .	2.0	33
11	Visualizing atomic structure and magnetism of 2D magnetic insulators via tunneling through graphene. Nature Communications, 2021, 12, 70.	5.8	29
12	Dielectric Breakdown in Single-Crystal Hexagonal Boron Nitride. ACS Applied Electronic Materials, 2021, 3, 3547-3554.	2.0	28
13	Long-range ballistic transport of Brown-Zak fermions in graphene superlattices. Nature Communications, 2020, 11, 5756.	5.8	25
14	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.	3.3	17
15	Bloch Surface Waves for MoS2 Emission Coupling and Polariton Systems. Applied Sciences (Switzerland), 2017, 7, 1217.	1.3	8
16	Convergent and divergent beam electron holography and reconstruction of adsorbates on free-standing two-dimensional crystals. Frontiers of Physics, 2019, 14, 1.	2.4	7
17	Convergent beam electron diffraction of multilayer Van der Waals structures. Ultramicroscopy, 2020, 212, 112976.	0.8	6
18	Growth of graphene on tantalum and its protective properties. Carbon, 2018, 139, 29-34.	5.4	5

#	Article	IF	Citations
19	Field-induced insulating states in a graphene superlattice. Physical Review B, 2019, 99, .	1.1	2
20	Holographic reconstruction of the interlayer distance of bilayer two-dimensional crystal samples from their convergent beam electron diffraction patterns. Ultramicroscopy, 2020, 219, 113020.	0.8	2
21	Piezoelectric Materials: Piezoelectricity in Monolayer Hexagonal Boron Nitride (Adv. Mater. 1/2020). Advanced Materials, 2020, 32, 2070006.	11.1	0
22	Additional Work. Springer Theses, 2019, , 85-91.	0.0	0