

Matthew Holwill

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

22
papers

419
citations

10
h-index

20
g-index

24
ext. papers

616
ext. citations

11.8
avg, IF

3.63
L-index

#	Paper	IF	Citations
22	Out-of-equilibrium criticalities in graphene superlattices.. <i>Science</i> , 2022 , 375, 430-433	33.3	1
21	Two-dimensional adaptive membranes with programmable water and ionic channels. <i>Nature Nanotechnology</i> , 2021 , 16, 174-180	28.7	36
20	Visualizing atomic structure and magnetism of 2D magnetic insulators via tunneling through graphene. <i>Nature Communications</i> , 2021 , 12, 70	17.4	6
19	Mechanical Properties of Atomically Thin Tungsten Dichalcogenides: WS, WSe, and WTe. <i>ACS Nano</i> , 2021 , 15, 2600-2610	16.7	18
18	Dielectric Breakdown in Single-Crystal Hexagonal Boron Nitride. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3547-3554	4	7
17	Convergent beam electron diffraction of multilayer Van der Waals structures. <i>Ultramicroscopy</i> , 2020 , 212, 112976	3.1	5
16	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	3.1	1
15	Piezoelectricity in Monolayer Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2020 , 32, e1905504	24	46
14	Piezoelectric Materials: Piezoelectricity in Monolayer Hexagonal Boron Nitride (Adv. Mater. 1/2020). <i>Advanced Materials</i> , 2020 , 32, 2070006	24	
13	Long-range ballistic transport of Brown-Zak fermions in graphene superlattices. <i>Nature Communications</i> , 2020 , 11, 5756	17.4	10
12	Field-induced insulating states in a graphene superlattice. <i>Physical Review B</i> , 2019 , 99,	3.3	2
11	Additional Work. <i>Springer Theses</i> , 2019 , 85-91	0.1	
10	Engineering Graphene Flakes for Wearable Textile Sensors via Highly Scalable and Ultrafast Yarn Dyeing Technique. <i>ACS Nano</i> , 2019 , 13, 3847-3857	16.7	115
9	Composite super-moiré lattices in double-aligned graphene heterostructures. <i>Science Advances</i> , 2019 , 5, eaay8897	14.3	36
8	Planar and van der Waals heterostructures for vertical tunnelling single electron transistors. <i>Nature Communications</i> , 2019 , 10, 230	17.4	29
7	Convergent and divergent beam electron holography and reconstruction of adsorbates on free-standing two-dimensional crystals. <i>Frontiers of Physics</i> , 2019 , 14, 1	3.7	6
6	Excess resistivity in graphene superlattices caused by umklapp electron-electron scattering. <i>Nature Physics</i> , 2019 , 15, 32-36	16.2	25

5	Growth of graphene on tantalum and its protective properties. <i>Carbon</i> , 2018 , 139, 29-34	10.4	3
4	Graphene hot-electron light bulb: incandescence from hBN-encapsulated graphene in air. <i>2D Materials</i> , 2018 , 5, 011006	5.9	29
3	Tunnel spectroscopy of localised electronic states in hexagonal boron nitride. <i>Communications Physics</i> , 2018 , 1,	5.4	25
2	Convergent beam electron holography for analysis of van der Waals heterostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7473-7478	11.5	12
1	Bloch Surface Waves for MoS ₂ Emission Coupling and Polariton Systems. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 1217	2.6	6