

Tianyi Han

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,542
citations

516710

16
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

3352
citing authors

#	ARTICLE	IF	CITATIONS
1	High-quality sandwiched black phosphorus heterostructure and its quantum oscillations. Nature Communications, 2015, 6, 7315.	12.8	423
2	Achieving Ultrahigh Carrier Mobility in Two-Dimensional Hole Gas of Black Phosphorus. Nano Letters, 2016, 16, 7768-7773.	9.1	242
3	Probing the electron states and metal-insulator transition mechanisms in molybdenum disulphide vertical heterostructures. Nature Communications, 2015, 6, 6088.	12.8	181
4	Universal low-temperature Ohmic contacts for quantum transport in transition metal dichalcogenides. 2D Materials, 2016, 3, 021007.	4.4	102
5	Isolation and Characterization of Few-Layer Manganese Thiophosphate. ACS Nano, 2017, 11, 11330-11336.	14.6	98
6	Even-odd layer-dependent magnetotransport of high-mobility Q-valley electrons in transition metal disulfides. Nature Communications, 2016, 7, 12955.	12.8	82
7	Intrinsic valley Hall transport in atomically thin MoS ₂ . Nature Communications, 2019, 10, 611.	12.8	77
8	van der Waals Epitaxial Growth of Atomically Thin Bi ₂ Se ₃ and Thickness-Dependent Topological Phase Transition. Nano Letters, 2015, 15, 2645-2651. Odd-Integer Quantum Hall States and Giant Spin Susceptibility in a Quantum	9.1	54
9	Physical Review Letters, 2017, 118, 067702 xmls:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-Type Few-Layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WSe</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow>	7.8	37
10	Determining Interaction Enhanced Valley Susceptibility in Spin-Valley-Locked MoS ₂ . Nano Letters, 2019, 19, 1736-1742.	9.1	35
11	Spectroscopy signatures of electron correlations in a trilayer graphene/hBN moiré superlattice. Science, 2022, 375, 1295-1299.	12.6	30
12	Ambipolar quantum transport in few-layer black phosphorus. Physical Review B, 2017, 96, .	3.2	26
13	Detection of interlayer interaction in few-layer graphene. Physical Review B, 2015, 92, .	3.2	22
14	A fast transfer-free synthesis of high-quality monolayer graphene on insulating substrates by a simple rapid thermal treatment. Nanoscale, 2016, 8, 2594-2600.	5.6	20
15	Type-controlled nanodevices based on encapsulated few-layer black phosphorus for quantum transport. 2D Materials, 2016, 3, 031001.	4.4	19
16	Probing Defect-Induced Midgap States in MoS ₂ Through Graphene-MoS ₂ Heterostructures. Advanced Materials Interfaces, 2015, 2, 1500064.	3.7	17
17	Bridging the gap between atomically thin semiconductors and metal leads. Nature Communications, 2022, 13, 1777.	12.8	17
18	Probing the electronic states and impurity effects in black phosphorus vertical heterostructures. 2D Materials, 2016, 3, 015012.	4.4	16

