Zefei Wu

List of Publications by Year
in descending order

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48	2,337	279798	223800
papers	citations	23 h-index	46 g-index

48	48	48	4819
all docs	docs citations	times ranked	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	Oxygenâ€Assisted Charge Transfer Between ZnO Quantum Dots and Graphene. Small, 2013, 9, 3031-3036.	10.0	174
5	Universal low-temperature Ohmic contacts for quantum transport in transition metal dichalcogenides. 2D Materials, 2016, 3, 021007.	4.4	102
6	Isolation and Characterization of Few-Layer Manganese Thiophosphite. ACS Nano, 2017, 11, 11330-11336.	14.6	98
7	Twin Defect Derived Growth of Atomically Thin MoS₂ Dendrites. ACS Nano, 2018, 12, 635-643.	14.6	92
8	Evenâ€“odd layer-dependent magnetotransport of high-mobility Q-valley electrons in transition metal disulfides. Nature Communications, 2016, 7, 12955.	12.8	82
9	Intrinsic valley Hall transport in atomically thin MoS2. Nature Communications, 2019, 10, 611.	12.8	77
10	Interaction effects and superconductivity signatures in twisted double-bilayer WSe₂. Nanoscale Horizons, 2020, 5, 1309-1316.	8.0	68
11	van der Waals Epitaxial Growth of Atomically Thin Bi₂Se₃ and Thickness-Dependent Topological Phase Transition. Nano Letters, 2015, 15, 2645-2651.	9.1	54
12	A reliable way of mechanical exfoliation of large scale two dimensional materials with high quality. AIP Advances, 2016, 6, .	1.3	53
13	Shape-Dependent Defect Structures of Monolayer MoS₂ Crystals Grown by Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2017, 9, 763-770.	8.0	45
14	Odd-Integer Quantum Hall States and Giant Spin Susceptibility in<mml:math xmlns: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></ Physical Review Letters, 2017, 118, 067702.	7.8	37
15	Singleâ€Crystalline Vanadium Dioxide Actuators. Advanced Functional Materials, 2019, 29, 1900527.	14.9	37
16	Strained Epitaxy of Monolayer Transition Metal Dichalcogenides for Wrinkle Arrays. ACS Nano, 2021, 15, 6633-6644.	14.6	37
17	Electrically tunable physical properties of two-dimensional materials. Nano Today, 2019, 27, 99-119.	11.9	35
18	Determining Interaction Enhanced Valley Susceptibility in Spin-Valley-Locked MoS₂. Nano Letters, 2019, 19, 1736-1742.	9.1	35

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19	Modifying electronic transport properties of graphene by electron beam irradiation. Applied Physics Letters, 2011, 99, 033109.	3.3	31
20	V2O5-C-SnO2 Hybrid Nanobelts as High Performance Anodes for Lithium-ion Batteries. Scientific Reports, 2016, 6, 33597.	3.3	31
21	Oxide Inhibitor-Assisted Growth of Single-Layer Molybdenum Dichalcogenides (MoX₂, X =) Tj ETQq1 1 0.784314 rgBT /Ove	14.6	30
22	Semimetallic-to-metallic transition and mobility enhancement enabled by reversible iodine doping of graphene. Nanoscale, 2014, 6, 13196-13202.	5.6	26
23	Ambipolar quantum transport in few-layer black phosphorus. Physical Review B, 2017, 96, .	3.2	26
24	Detection of interlayer interaction in few-layer graphene. Physical Review B, 2015, 92, .	3.2	22
25	Multiple Regulation over Growth Direction, Band Structure, and Dimension of Monolayer WS₂ by a Quartz Substrate. Chemistry of Materials, 2020, 32, 2508-2517.	6.7	21
26	Density of States and Its Local Fluctuations Determined by Capacitance of Strongly Disordered Graphene. Scientific Reports, 2013, 3, .	3.3	20
27	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
28	Type-controlled nanodevices based on encapsulated few-layer black phosphorus for quantum transport. 2D Materials, 2016, 3, 031001.	4.4	19
29	Modification of electronic properties of top-gated graphene devices by ultrathin yttrium-oxide dielectric layers. Nanoscale, 2013, 5, 1116-1120.	5.6	18
30	Negative Quantum Capacitance Induced by Midgap States in Single-layer Graphene. Scientific Reports, 2013, 3, 2041.	3.3	18
31	Detection of resonant impurities in graphene by quantum capacitance measurement. Physical Review B, 2014, 89, .	3.2	18
32	Electron-electron interactions in monolayer graphene quantum capacitors. Nano Research, 2013, 6, 619-626.	10.4	17
33	Probing Defectâ€Induced Midgap States in MoS₂ Through Grapheneâ€“MoS₂ Heterostructures. Advanced Materials Interfaces, 2015, 2, 1500064.	3.7	17
34	Bridging the gap between atomically thin semiconductors and metal leads. Nature Communications, 2022, 13, 1777.	12.8	17
35	Probing the electronic states and impurity effects in black phosphorus vertical heterostructures. 2D Materials, 2016, 3, 015012.	4.4	16
36	Hierarchical ZnO Nanostructures with Blooming Flowers Driven by Screw Dislocations. Scientific Reports, 2015, 5, 8226.	3.3	14

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37	Oil boundary approach for sublimation enabled camphor mediated graphene transfer. Journal of Colloid and Interface Science, 2019, 546, 11-19.	9.4	13
38	Investigation of the two-gap superconductivity in a few-layer NbSe2 -graphene heterojunction. Physical Review B, 2018, 97, .	3.2	11
39	Y-shaped ZnO Nanobelts Driven from Twinned Dislocations. Scientific Reports, 2016, 6, 22494.	3.3	10
40	Negative compressibility in graphene-terminated black phosphorus heterostructures. Physical Review B, 2016, 93, .	3.2	10
41	Gate-tunable strong-weak localization transition in few-layer black phosphorus. Nanotechnology, 2018, 29, 035204.	2.6	10
42	Negative compressibility observed in graphene containing resonant impurities. Applied Physics Letters, 2013, 102, .	3.3	9
43	Induced Ising spin-orbit interaction in metallic thin films on monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>WS</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 99, .	3.2	8
44	Side-gate modulation effects on high-quality BN-Graphene-BN nanoribbon capacitors. Applied Physics Letters, 2014, 105, .	3.3	7
45	Charge density wave phase transition on the surface of electrostatically doped multilayer graphene. Applied Physics Letters, 2016, 109, .	3.3	4
46	Fluctuation-induced tunneling conduction in iodine-doped bilayer graphene. Journal of Applied Physics, 2018, 123, 244302.	2.5	2
47	Charge Transfer: Oxygen-Assisted Charge Transfer Between ZnO Quantum Dots and Graphene (Small) Tj ETQq1 1 0.784314 rgBT /Ov	10.0	0
48	Actuators: Singleâ€Crystalline Vanadium Dioxide Actuators (Adv. Funct. Mater. 20/2019). Advanced Functional Materials, 2019, 29, 1970138.	14.9	0