

Shuigang Xu

List of Publications by Year in descending order

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36
papers

2,699
citations

257450

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times ranked

4747
citing authors

#	ARTICLE	IF	CITATIONS
1	Out-of-equilibrium criticalities in graphene superlattices. <i>Science</i> , 2022, 375, 430-433.	12.6	34
2	Interfacial ferroelectricity in marginally twisted 2D semiconductors. <i>Nature Nanotechnology</i> , 2022, 17, 390-395.	31.5	115
3	Tunnel field-effect transistors for sensitive terahertz detection. <i>Nature Communications</i> , 2021, 12, 543.	12.8	52
4	Tunable van Hove singularities and correlated states in twisted monolayer-bilayer graphene. <i>Nature Physics</i> , 2021, 17, 619-626.	16.7	103
5	In situ manipulation of van der Waals heterostructures for twistrionics. <i>Science Advances</i> , 2020, 6, .	10.3	69
6	Electronic phase separation in multilayer rhombohedral graphite. <i>Nature</i> , 2020, 584, 210-214.	27.8	81
7	Layer-engineered large-area exfoliation of graphene. <i>Science Advances</i> , 2020, 6, .	10.3	81
8	Control of electron-electron interaction in graphene by proximity screening. <i>Nature Communications</i> , 2020, 11, 2339.	12.8	46
9	Minibands in twisted bilayer graphene probed by magnetic focusing. <i>Science Advances</i> , 2020, 6, eay7838.	10.3	21
10	Graphene Thermal Emitter with Enhanced Joule Heating and Localized Light Emission in Air. <i>ACS Photonics</i> , 2019, 6, 2117-2125.	6.6	53
11	Stacking Order in Graphite Films Controlled by van der Waals Technology. <i>Nano Letters</i> , 2019, 19, 8526-8532.	9.1	54
12	Giant oscillations in a triangular network of one-dimensional states in marginally twisted graphene. <i>Nature Communications</i> , 2019, 10, 4008.	12.8	67
13	Measuring Hall viscosity of graphene's electron fluid. <i>Science</i> , 2019, 364, 162-165.	12.6	197
14	Intrinsic valley Hall transport in atomically thin MoS ₂ . <i>Nature Communications</i> , 2019, 10, 611.	12.8	77
15	Determining Interaction Enhanced Valley Susceptibility in Spin-Valley-Locked MoS ₂ . <i>Nano Letters</i> , 2019, 19, 1736-1742.	9.1	35
16	Composite super-moiré lattices in double-aligned graphene heterostructures. <i>Science Advances</i> , 2019, 5, eay8897.	10.3	74
17	Micromagnetometry of two-dimensional ferromagnets. <i>Nature Electronics</i> , 2019, 2, 457-463.	26.0	93
18	Resonant terahertz detection using graphene plasmons. <i>Nature Communications</i> , 2018, 9, 5392.	12.8	198

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19	Fluctuation-induced tunneling conduction in iodine-doped bilayer graphene. <i>Journal of Applied Physics</i> , 2018, 123, 244302.	2.5	2
20	Isolation and Characterization of Few-Layer Manganese Thiophosphite. <i>ACS Nano</i> , 2017, 11, 11330-11336.	14.6	98
21	Achieving Ultrahigh Carrier Mobility in Two-Dimensional Hole Gas of Black Phosphorus. <i>Nano Letters</i> , 2016, 16, 7768-7773.	9.1	242
22	Charge density wave phase transition on the surface of electrostatically doped multilayer graphene. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	4
23	Even-odd layer-dependent magnetotransport of high-mobility Q-valley electrons in transition metal disulfides. <i>Nature Communications</i> , 2016, 7, 12955.	12.8	82
24	A fast transfer-free synthesis of high-quality monolayer graphene on insulating substrates by a simple rapid thermal treatment. <i>Nanoscale</i> , 2016, 8, 2594-2600.	5.6	20
25	Directly Metering Light Absorption and Heat Transfer in Single Nanowires Using Metal-Insulator Transition in VO ₂ . <i>Advanced Optical Materials</i> , 2015, 3, 336-341.	7.3	21
26	Hierarchical ZnO Nanostructures with Blooming Flowers Driven by Screw Dislocations. <i>Scientific Reports</i> , 2015, 5, 8226.	3.3	14
27	van der Waals Epitaxial Growth of Atomically Thin Bi ₂ Se ₃ and Thickness-Dependent Topological Phase Transition. <i>Nano Letters</i> , 2015, 15, 2645-2651.	9.1	54
28	High-quality sandwiched black phosphorus heterostructure and its quantum oscillations. <i>Nature Communications</i> , 2015, 6, 7315.	12.8	423
29	Tuning the optical and electrical properties of hydrothermally grown ZnO nanowires by sealed post annealing treatment. <i>Solid State Communications</i> , 2013, 160, 41-46.	1.9	12
30	Charge Transfer: Oxygen-Assisted Charge Transfer Between ZnO Quantum Dots and Graphene (Small) Tj ETQq0 0 Q r gBT /Overlock 10 T	10.0	174
31	Oxygen-Assisted Charge Transfer Between ZnO Quantum Dots and Graphene. <i>Small</i> , 2013, 9, 3031-3036.	10.0	174
32	Luminescence enhancement of ZnO-core/a-SiN _x :H-shell nanorod arrays. <i>Optics Express</i> , 2013, 21, 5891.	3.4	5
33	Effective control of photoluminescence from ZnO nanowires by a-SiN _x :H decoration. <i>Optics Letters</i> , 2012, 37, 211.	3.3	3
34	Piezotronic Effects on the Optical Properties of ZnO Nanowires. <i>Nano Letters</i> , 2012, 12, 5802-5807.	9.1	73
35	Annealing temperature effects on ferromagnetism and structure of Si ^{1-x} Mnx films prepared by magnetron sputtering. <i>Vacuum</i> , 2012, 86, 1358-1362.	3.5	4
36	Nitrogen deep acceptors in ZnO nanowires induced by ammonia plasma. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	16