

Xian Zhang

List of Publications by Year in descending order

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19
papers

4,686
citations

840776

11
h-index

996975

15
g-index

19
all docs

19
docs citations

19
times ranked

8580
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezoelectricity of single-atomic-layer MoS ₂ for energy conversion and piezotronics. Nature, 2014, 514, 470-474.	27.8	1,762
2	Multi-terminal transport measurements of MoS ₂ using a van der Waals heterostructure device platform. Nature Nanotechnology, 2015, 10, 534-540.	31.5	1,099
3	Measurement of the optical dielectric function of monolayer transition-metal dichalcogenides: ϵ_1 and ϵ_2 . μ SR Spectroscopy of MoS ₂ and WS ₂ . ACS Applied Materials & Interfaces, 2015, 7, 25923-25929.	3.2	1,017
4	Highly Stable, Dual-Gated MoS ₂ Transistors Encapsulated by Hexagonal Boron Nitride with Gate-Controllable Contact, Resistance, and Threshold Voltage. ACS Nano, 2015, 9, 7019-7026.	14.6	331
5	Measurement of Lateral and Interfacial Thermal Conductivity of Single- and Bilayer MoS ₂ and MoSe ₂ Using Refined Optothermal Raman Technique. ACS Applied Materials & Interfaces, 2015, 7, 25923-25929.	8.0	275
6	Multiple hot-carrier collection in photo-excited graphene Moiré superlattices. Science Advances, 2016, 2, e1600002.	10.3	42
7	Experimental and Computational Investigation of Layer-Dependent Thermal Conductivities and Interfacial Thermal Conductance of One- to Three-Layer WSe ₂ . ACS Applied Materials & Interfaces, 2021, 13, 13063-13071.	8.0	33
8	Chemical vapor deposition growth of a periodic array of single-layer MoS ₂ islands via lithographic patterning of an SiO ₂ /Si substrate. 2D Materials, 2015, 2, 045014.	4.4	29
9	Controllable Colloidal Synthesis of Tin(II) Chalcogenide Nanocrystals and Their Solution-Processed Flexible Thermoelectric Thin Films. Small, 2018, 14, e1801949.	10.0	26
10	Device Architectures for Low Voltage and Ultrafast Graphene Integrated Phase Modulators. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-9.	2.9	20
11	Fabrication of hundreds of field effect transistors on a single carbon nanotube for basic studies and molecular devices. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, 06F101.	1.2	13
12	Gate-Tuned Temperature in a Hexagonal Boron Nitride-Encapsulated 2-D Semiconductor Device. IEEE Transactions on Electron Devices, 2018, 65, 4068-4072.	3.0	12
13	Drastic sensing enhancement using acoustic bubbles for surface-based microfluidic sensors. Sensors and Actuators B: Chemical, 2017, 243, 298-302.	7.8	10
14	Excitons in Two-Dimensional Materials. , 0, , .		6
15	Characterization of Layer Number of Two-Dimensional Transition Metal Diselenide Semiconducting Devices Using Si-Peak Analysis. Advances in Materials Science and Engineering, 2019, 2019, 1-7.	1.8	5
16	On the role of crystal defects on the lattice thermal conductivity of monolayer WSe ₂ (P63/mmc) thermoelectric materials by DFT calculation. Superlattices and Microstructures, 2021, 160, 107057.	3.1	4
17	Thermal Conductivities and Interfacial Thermal Conductance of 2D WSe ₂ . , 2020, , .		2
18	Fiber Composites Made of Low-Dimensional Carbon Materials. , 0, , .		0

#	ARTICLE	IF	CITATIONS
19	Thermal Laser-Assisted Manufacturing of Two-Dimensional Atomic Layer Heterostructures. Minerals, Metals and Materials Series, 2021, , 25-34.	0.4	0