

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	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
2	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
3	Thermal Laser-Assisted Manufacturing of Two-Dimensional Atomic Layer Heterostructures. Minerals, Metals and Materials Series, 2021, , 25-34.	0.4	0
4	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
5	Thermal Conductivities and Interfacial Thermal Conductance of 2D WSe ₂ . , 2020, , .		2
6	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
7	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
8	Controllable Colloidal Synthesis of Tin(II) Chalcogenide Nanocrystals and Their Solution-Processed Flexible Thermoelectric Thin Films. Small, 2018, 14, e1801949.	10.0	26
9	Drastic sensing enhancement using acoustic bubbles for surface-based microfluidic sensors. Sensors and Actuators B: Chemical, 2017, 243, 298-302.	7.8	10
10	Multiple hot-carrier collection in photo-excited graphene Moiré superlattices. Science Advances, 2016, 2, e1600002.	10.3	42
11	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
12	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
13	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
14	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
15	Measurement of the typical thermoelectric function of monolayer transition-metal dichalcogenides: $\frac{S}{T} = \frac{1}{T} \left(\frac{S}{T} \right)$	3.2	1,017
16	Piezoelectricity of single-atomic-layer MoS ₂ for energy conversion and piezotronics. Nature, 2014, 514, 470-474.	27.8	1,762
17	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
18	Fiber Composites Made of Low-Dimensional Carbon Materials. , 0, , .		0

#	ARTICLE	IF	CITATIONS
19	Excitons in Two-Dimensional Materials. , 0, , .		6