

Xiankun Zhang

List of Publications by Year in descending order

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papers

1,472
citations

361413

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citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(4-styrenesulfonate)-induced sulfur vacancy self-healing strategy for monolayer MoS ₂ homojunction photodiode. <i>Nature Communications</i> , 2017, 8, 15881.	12.8	191
2	Interfacial Charge Behavior Modulation in Perovskite Quantum Dot/Monolayer MoS ₂ /2D Mixed-Dimensional van der Waals Heterostructures. <i>Advanced Functional Materials</i> , 2018, 28, 1802015.	14.9	107
3	Near-ideal van der Waals rectifiers based on all-two-dimensional Schottky junctions. <i>Nature Communications</i> , 2021, 12, 1522.	12.8	103
4	Integrated High-Performance Infrared Phototransistor Arrays Composed of Nonlayered PbS/MoS ₂ Heterostructures with Edge Contacts. <i>Nano Letters</i> , 2016, 16, 6437-6444.	9.1	98
5	Manganese-Based Materials for Rechargeable Batteries beyond Lithium-Ion. <i>Advanced Energy Materials</i> , 2021, 11, 2100867.	19.5	95
6	Strain-Engineered van der Waals Interfaces of Mixed-Dimensional Heterostructure Arrays. <i>ACS Nano</i> , 2019, 13, 9057-9066.	14.6	94
7	Defect-Engineered Atomically Thin MoS ₂ Homogeneous Electronics for Logic Inverters. <i>Advanced Materials</i> , 2020, 32, e1906646.	21.0	94
8	Self-Healing Originated van der Waals Homojunctions with Strong Interlayer Coupling for High-Performance Photodiodes. <i>ACS Nano</i> , 2019, 13, 3280-3291.	14.6	69
9	Piezotronic effect on interfacial charge modulation in mixed-dimensional Van der Waals heterostructure for ultrasensitive flexible photodetectors. <i>Nano Energy</i> , 2019, 58, 85-93.	16.0	66
10	Hidden Vacancy Benefit in Monolayer 2D Semiconductors. <i>Advanced Materials</i> , 2021, 33, e2007051.	21.0	65
11	Layer Dependence and Light Tuning Surface Potential of 2D MoS ₂ on Various Substrates. <i>Small</i> , 2017, 13, 1603103.	10.0	58
12	Atomically Thin ZnO Sheet for Visible-Blind Ultraviolet Photodetection. <i>Small</i> , 2020, 16, e2005520.	10.0	45
13	Direct Charge Trapping Multilevel Memory with Graphdiyne/MoS ₂ Van der Waals Heterostructure. <i>Advanced Science</i> , 2021, 8, e2101417.	11.2	45
14	Strain modulation on graphene/ZnO nanowire mixed-dimensional van der Waals heterostructure for high-performance photosensor. <i>Nano Research</i> , 2017, 10, 3476-3485.	10.4	41
15	Gate-Controlled Polarity-Reversible Photodiodes with Ambipolar 2D Semiconductors. <i>Advanced Functional Materials</i> , 2021, 31, 2007559.	14.9	38
16	All-van der Waals Barrier-Free Contacts for High-Mobility Transistors. <i>Advanced Materials</i> , 2022, 34, e2109521.	21.0	38
17	Single-Atom Vacancy Doping in Two-Dimensional Transition Metal Dichalcogenides. <i>Accounts of Materials Research</i> , 2021, 2, 655-668.	11.7	32
18	Reconstructing Vanadium Oxide with Anisotropic Pathways for a Durable and Fast Aqueous K-Ion Battery. <i>ACS Nano</i> , 2021, 15, 17717-17728.	14.6	30

#	ARTICLE	IF	CITATIONS
19	Molecule-Engineered van der Waals Contacts for Schottky-Barrier-Free Electronics. <i>Advanced Materials</i> , 2021, 33, e2104935.	21.0	26
20	Record-high saturation current in end-bond contacted monolayer MoS ₂ transistors. <i>Nano Research</i> , 2022, 15, 475-481.	10.4	24
21	A van der Waals Ferroelectric Tunnel Junction for Ultrahigh-Temperature Operation Memory. <i>Small Methods</i> , 2022, 6, e2101583.	8.6	22
22	Low-cost highly sensitive strain sensors for wearable electronics. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10571-10577.	5.5	21
23	Tuning Transport and Photoelectric Performance of Monolayer MoS ₂ Device by E-Beam Irradiation. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800348.	3.7	21
24	Synergistically Engineered van der Waals photodiodes with high efficiency. <i>Information Materials</i> , 2022, 4, .	17.3	16
25	Force and light tuning vertical tunneling current in the atomic layered MoS ₂ . <i>Nanotechnology</i> , 2018, 29, 275202.	2.6	10
26	Flexible electronics and optoelectronics of 2D van der Waals materials. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 671-690.	4.9	10
27	Microscopic pump-probe optical technique to characterize the defect of monolayer transition metal dichalcogenides. <i>Photonics Research</i> , 2019, 7, 711.	7.0	9
28	Van Der Waals Heterostructures: Interfacial Charge Behavior Modulation in Perovskite Quantum Dot-Monolayer MoS ₂ 0D-2D Mixed-Dimensional van der Waals Heterostructures (<i>Adv. Funct. Mater.</i>) Tj ETQq0 0 0 1gBT /Overclock 10 Tf		
29	2D Materials: Layer Dependence and Light Tuning Surface Potential of 2D MoS ₂ on Various Substrates (<i>Small</i> 14/2017). <i>Small</i> , 2017, 13, .	10.0	1