

Xiankun Zhang

List of Publications by Year in descending order

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29
papers

1,472
citations

361413

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477307

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29
all docs

29
docs citations

29
times ranked

1919
citing authors

#	ARTICLE	IF	CITATIONS
1	Record-high saturation current in end-bond contacted monolayer MoS ₂ transistors. Nano Research, 2022, 15, 475-481.	10.4	24
2	Synergisticâ€€engineered van der Waals photodiodes with high efficiency. InformaÃƒnÃƒ-MateriÃƒly, 2022, 4, .	17.3	16
3	A van der Waals Ferroelectric Tunnel Junction for Ultrahighâ€€Temperature Operation Memory. Small Methods, 2022, 6, e2101583.	8.6	22
4	Allâ€€vanâ€€derâ€€Waals Barrierâ€€Free Contacts for Highâ€€Mobility Transistors. Advanced Materials, 2022, 34, e2109521.	21.0	38
5	Flexible electronics and optoelectronics of 2D van der Waals materials. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 671-690.	4.9	10
6	Gateâ€€Controlled Polarityâ€€Reversible Photodiodes with Ambipolar 2D Semiconductors. Advanced Functional Materials, 2021, 31, 2007559.	14.9	38
7	Near-ideal van der Waals rectifiers based on all-two-dimensional Schottky junctions. Nature Communications, 2021, 12, 1522.	12.8	103
8	Manganeseâ€€Based Materials for Rechargeable Batteries beyond Lithiumâ€€Ion. Advanced Energy Materials, 2021, 11, 2100867.	19.5	95
9	Single-Atom Vacancy Doping in Two-Dimensional Transition Metal Dichalcogenides. Accounts of Materials Research, 2021, 2, 655-668.	11.7	32
10	Direct Charge Trapping Multilevel Memory with Graphdiyne/MoS ₂ Van der Waals Heterostructure. Advanced Science, 2021, 8, e2101417.	11.2	45
11	Moleculeâ€€Upgraded van der Waals Contacts for Schottkyâ€€Barrierâ€€Free Electronics. Advanced Materials, 2021, 33, e2104935.	21.0	26
12	Hidden Vacancy Benefit in Monolayer 2D Semiconductors. Advanced Materials, 2021, 33, e2007051.	21.0	65
13	Reconstructing Vanadium Oxide with Anisotropic Pathways for a Durable and Fast Aqueous K-Ion Battery. ACS Nano, 2021, 15, 17717-17728.	14.6	30
14	Defectâ€€Engineered Atomically Thin MoS ₂ Homogeneous Electronics for Logic Inverters. Advanced Materials, 2020, 32, e1906646.	21.0	94
15	Atomicâ€€Thin ZnO Sheet for Visibleâ€€Blind Ultraviolet Photodetection. Small, 2020, 16, e2005520.	10.0	45
16	Strain-Engineered van der Waals Interfaces of Mixed-Dimensional Heterostructure Arrays. ACS Nano, 2019, 13, 9057-9066.	14.6	94
17	Self-Healing Originated van der Waals Homojunctions with Strong Interlayer Coupling for High-Performance Photodiodes. ACS Nano, 2019, 13, 3280-3291.	14.6	69
18	Piezotronic effect on interfacial charge modulation in mixed-dimensional Van der Waals heterostructure for ultrasensitive flexible photodetectors. Nano Energy, 2019, 58, 85-93.	16.0	66

#	ARTICLE	IF	CITATIONS
19	Microscopic pump-probe optical technique to characterize the defect of monolayer transition metal dichalcogenides. <i>Photonics Research</i> , 2019, 7, 711.	7.0	9
20	Force and light tuning vertical tunneling current in the atomic layered MoS ₂ . <i>Nanotechnology</i> , 2018, 29, 275202.	2.6	10
21	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
22	Interfacial Charge Behavior Modulation in Perovskite Quantum Dot-Monolayer MoS ₂ 0D-2D Mixed-Dimensional van der Waals Heterostructures. <i>Advanced Functional Materials</i> , 2018, 28, 1802015.	14.9	107
23	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 ETQq1 1 0.784314 rgb /Over	14.9	107
24	Layer Dependence and Light Tuning Surface Potential of 2D MoS ₂ on Various Substrates. <i>Small</i> , 2017, 13, 1603103.	10.0	58
25	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
26	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
27	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
28	Low-cost highly sensitive strain sensors for wearable electronics. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10571-10577.	5.5	21
29	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