

Zhenxing Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7124856/publications.pdf>

Version: 2024-02-01

35
papers

3,464
citations

304743

22
h-index

361022

35
g-index

35
all docs

35
docs citations

35
times ranked

4777
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable GaTe-MoS ₂ van der Waals p-n Junctions with Novel Optoelectronic Performance. Nano Letters, 2015, 15, 7558-7566.	9.1	369
2	Van der Waals Epitaxy and Photoresponse of Hexagonal Tellurium Nanoplates on Flexible Mica Sheets. ACS Nano, 2014, 8, 7497-7505.	14.6	259
3	Recent Progress in CVD Growth of 2D Transition Metal Dichalcogenides and Related Heterostructures. Advanced Materials, 2019, 31, e1901694.	21.0	250
4	New Frontiers on van der Waals Layered Metal Phosphorous Trichalcogenides. Advanced Functional Materials, 2018, 28, 1802151.	14.9	223
5	High-Performance Ultraviolet Photodetector Based on a Few-Layered 2D NiPS ₃ Nanosheet. Advanced Functional Materials, 2017, 27, 1701342.	14.9	220
6	2D library beyond graphene and transition metal dichalcogenides: a focus on photodetection. Chemical Society Reviews, 2018, 47, 6296-6341.	38.1	207
7	High-Performance Near-Infrared Photodetector Based on Ultrathin Bi ₂ O ₂ Se Nanosheets. Advanced Functional Materials, 2018, 28, 1706437.	14.9	201
8	High-performance, multifunctional devices based on asymmetric van der Waals heterostructures. Nature Electronics, 2018, 1, 356-361.	26.0	197
9	Tunable Room-Temperature Ferromagnetism in Two-Dimensional Cr ₂ Te ₃ . Nano Letters, 2020, 20, 3130-3139.	9.1	175
10	Role of Ga Vacancy on a Multilayer GaTe Phototransistor. ACS Nano, 2014, 8, 4859-4865.	14.6	162
11	Nonvolatile infrared memory in MoS ₂ /PbS van der Waals heterostructures. Science Advances, 2018, 4, eaap7916.	10.3	161
12	Ultrathin Magnetic 2D Single-Crystal CrSe. Advanced Materials, 2019, 31, e1900056.	21.0	154
13	High Crystal Quality 2D Manganese Phosphorus Trichalcogenide Nanosheets and their Photocatalytic Activity. Advanced Functional Materials, 2018, 28, 1800548.	14.9	116
14	Sub-millimeter-Scale Growth of One-Unit-Cell-Thick Ferrimagnetic Cr ₂ S ₃ Nanosheets. Nano Letters, 2019, 19, 2154-2161.	9.1	110
15	Two-dimensional metal phosphorus trisulfide nanosheet with solar hydrogen-evolving activity. Nano Energy, 2017, 40, 673-680.	16.0	91
16	Gate-Coupling-Enabled Robust Hysteresis for Nonvolatile Memory and Programmable Rectifier in Van der Waals Ferroelectric Heterojunctions. Advanced Materials, 2020, 32, e1908040.	21.0	84
17	Multibit Optoelectronic Memory in Top-Floating-Gated van der Waals Heterostructures. Advanced Functional Materials, 2019, 29, 1902890.	14.9	69
18	Ultrafast and ultrasensitive phototransistors based on few-layered HfSe ₂ . Applied Physics Letters, 2016, 109, .	3.3	60

#	ARTICLE	IF	CITATIONS
19	Two-Dimensional Unipolar Memristors with Logic and Memory Functions. <i>Nano Letters</i> , 2020, 20, 4144-4152.	9.1	50
20	Site-specific nucleation and controlled growth of a vertical tellurium nanowire array for high performance field emitters. <i>Nanotechnology</i> , 2013, 24, 185705.	2.6	48
21	Reconfigurable photovoltaic effect for optoelectronic artificial synapse based on ferroelectric p-n junction. <i>Nano Research</i> , 2021, 14, 4328-4335.	10.4	33
22	Anti-ambipolar Transport with Large Electrical Modulation in 2D Heterostructured Devices. <i>Advanced Materials</i> , 2019, 31, e1901144.	21.0	28
23	Recent progress on emergent two-dimensional magnets and heterostructures. <i>Nanotechnology</i> , 2021, 32, 472001.	2.6	25
24	Logic and in-memory computing achieved in a single ferroelectric semiconductor transistor. <i>Science Bulletin</i> , 2021, 66, 2288-2296.	9.0	23
25	Growth and Raman Scattering Investigation of a New 2D MOX Material: YbOCl. <i>Advanced Functional Materials</i> , 2019, 29, 1903017.	14.9	21
26	Nonvolatile reconfigurable broadband photodiodes based on BP/In ₂ Se ₃ ferroelectric p-n junctions. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	21
27	Controllable preparation of ultrathin 2D BiOBr crystals for high-performance ultraviolet photodetector. <i>Science China Materials</i> , 2021, 64, 189-197.	6.3	20
28	Controlled synthesis and Raman study of a 2D antiferromagnetic P-type semiconductor: In_2MnSe . <i>Nanoscale</i> , 2021, 13, 6953-6964.	5.6	20
29	Subthermionic field-effect transistors with sub-5 nm gate lengths based on van der Waals ferroelectric heterostructures. <i>Science Bulletin</i> , 2020, 65, 1444-1450.	9.0	17
30	A Ferroelectric p-n Heterostructure for Highly Enhanced Short-Circuit Current Density and Self-Powered Photodetection. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	17
31	Nonlayered Tin Thiohypodiphosphate Nanosheets: Controllable Growth and Solar-Light-Driven Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13392-13399.	8.0	15
32	High-performance ultraviolet photodetectors based on 2D layered In ₄ /3P ₂ Se ₆ nanoflakes. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	7
33	Growth, Raman Scattering Investigation and Photodetector Properties of 2D SnP. <i>Small</i> , 2022, 18, e2108017.	10.0	5
34	One-step method to simultaneously synthesize separable Te and GeTe nanosheets. <i>Nano Research</i> , 2022, 15, 6736-6742.	10.4	4
35	Self-intercalated two-dimensional magnetic semiconductor $\text{V}_8(\text{S}_{1-x}\text{Se}_x)$. <i>Applied Physics Letters</i> , 2021, 118, 221903.	3.3	2