

# Zhenxing Wang

## List of Publications by Year in descending order

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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	Nonvolatile reconfigurable broadband photodiodes based on BP/In <sub>2</sub> Se <sub>3</sub> ferroelectric p-n junctions. Applied Physics Letters, 2022, 120, .	3.3	21
2	High-performance ultraviolet photodetectors based on 2D layered In <sub>4</sub> /3P <sub>2</sub> Se <sub>6</sub> nanoflakes. Applied Physics Letters, 2022, 120, .	3.3	7
3	Growth, Raman Scattering Investigation and Photodetector Properties of 2D SnP. Small, 2022, 18, e2108017.	10.0	5
4	A Ferroelectric Heterostructure for Highly Enhanced Short-Circuit Current Density and Self-Powered Photodetection. Advanced Electronic Materials, 2022, 8, .	5.1	17
5	One-step method to simultaneously synthesize separable Te and GeTe nanosheets. Nano Research, 2022, 15, 6736-6742.	10.4	4
6	Controllable preparation of ultrathin 2D BiOBr crystals for high-performance ultraviolet photodetector. Science China Materials, 2021, 64, 189-197.	6.3	20
7	Nonlayered Tin Thiohypodiphosphate Nanosheets: Controllable Growth and Solar-Light-Driven Water Splitting. ACS Applied Materials & Interfaces, 2021, 13, 13392-13399.	8.0	15
8	Self-intercalated two-dimensional magnetic semiconductor V <sub>8</sub> (S <sub>1-x</sub> Se <sub>x</sub> ) <sub>15</sub> . Applied Physics Letters, 2021, 118, 221903.	3.3	2
9	Recent progress on emergent two-dimensional magnets and heterostructures. Nanotechnology, 2021, 32, 472001.	2.6	25
10	Reconfigurable photovoltaic effect for optoelectronic artificial synapse based on ferroelectric p-n junction. Nano Research, 2021, 14, 4328-4335.	10.4	33
11	Logic and in-memory computing achieved in a single ferroelectric semiconductor transistor. Science Bulletin, 2021, 66, 2288-2296.	9.0	23
12	Controlled synthesis and Raman study of a 2D antiferromagnetic P-type semiconductor: Î±-MnSe. Nanoscale, 2021, 13, 6953-6964.	5.6	20
13	Two-Dimensional Unipolar Memristors with Logic and Memory Functions. Nano Letters, 2020, 20, 4144-4152.	9.1	50
14	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
15	Tunable Room-Temperature Ferromagnetism in Two-Dimensional Cr <sub>2</sub> Te <sub>3</sub> . Nano Letters, 2020, 20, 3130-3139.	9.1	175
16	Subthermionic field-effect transistors with sub-5Ânm gate lengths based on van der Waals ferroelectric heterostructures. Science Bulletin, 2020, 65, 1444-1450.	9.0	17
17	Recent Progress in CVD Growth of 2D Transition Metal Dichalcogenides and Related Heterostructures. Advanced Materials, 2019, 31, e1901694.	21.0	250
18	Growth and Raman Scattering Investigation of a New 2D MOX Material: YbOCl. Advanced Functional Materials, 2019, 29, 1903017.	14.9	21

#	ARTICLE	IF	CITATIONS
19	Multibit Optoelectronic Memory in Topâ€Floatingâ€Gated van der Waals Heterostructures. <i>Advanced Functional Materials</i> , 2019, 29, 1902890.	14.9	69
20	Antiâ€Ambipolar Transport with Large Electrical Modulation in 2D Heterostructured Devices. <i>Advanced Materials</i> , 2019, 31, e1901144.	21.0	28
21	Ultrathin Magnetic 2D Singleâ€Crystal CrSe. <i>Advanced Materials</i> , 2019, 31, e1900056.	21.0	154
22	Sub-millimeter-Scale Growth of One-Unit-Cell-Thick Ferrimagnetic Cr <sub>2</sub> S <sub>3</sub> Nanosheets. <i>Nano Letters</i> , 2019, 19, 2154-2161.	9.1	110
23	High Crystal Quality 2D Manganese Phosphorus Trichalcogenide Nanosheets and their Photocatalytic Activity. <i>Advanced Functional Materials</i> , 2018, 28, 1800548.	14.9	116
24	Nonvolatile infrared memory in MoS <sub>2</sub> /PbS van der Waals heterostructures. <i>Science Advances</i> , 2018, 4, eaap7916.	10.3	161
25	Highâ€Performance Nearâ€Infrared Photodetector Based on Ultrathin Bi <sub>2</sub> O <sub>2</sub> Se Nanosheets. <i>Advanced Functional Materials</i> , 2018, 28, 1706437.	14.9	201
26	New Frontiers on van der Waals Layered Metal Phosphorous Trichalcogenides. <i>Advanced Functional Materials</i> , 2018, 28, 1802151.	14.9	223
27	2D library beyond graphene and transition metal dichalcogenides: a focus on photodetection. <i>Chemical Society Reviews</i> , 2018, 47, 6296-6341.	38.1	207
28	High-performance, multifunctional devices based on asymmetric van der Waals heterostructures. <i>Nature Electronics</i> , 2018, 1, 356-361.	26.0	197
29	Two-dimensional metal phosphorus trisulfide nanosheet with solar hydrogen-evolving activity. <i>Nano Energy</i> , 2017, 40, 673-680.	16.0	91
30	Highâ€Performance Ultraviolet Photodetector Based on a Fewâ€Layered 2D NiPS <sub>3</sub> Nanosheet. <i>Advanced Functional Materials</i> , 2017, 27, 1701342.	14.9	220
31	Ultrafast and ultrasensitive phototransistors based on few-layered HfSe <sub>2</sub> . <i>Applied Physics Letters</i> , 2016, 109, .	3.3	60
32	Tunable GaTe-MoS <sub>2</sub> van der Waals pâ€n Junctions with Novel Optoelectronic Performance. <i>Nano Letters</i> , 2015, 15, 7558-7566.	9.1	369
33	Van der Waals Epitaxy and Photoresponse of Hexagonal Tellurium Nanoplates on Flexible Mica Sheets. <i>ACS Nano</i> , 2014, 8, 7497-7505.	14.6	259
34	Role of Ga Vacancy on a Multilayer GaTe Phototransistor. <i>ACS Nano</i> , 2014, 8, 4859-4865.	14.6	162
35	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