

# Wenshuo Xu

## List of Publications by Year in descending order

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31  
papers

1,288  
citations

361045

20  
h-index

433756

31  
g-index

31  
all docs

31  
docs citations

31  
times ranked

2800  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomically sharp jagged edges of chemical vapor deposition-grown WS <sub>2</sub> for electrocatalysis. <i>Materials Today Nano</i> , 2022, 18, 100183.	2.3	5
2	Ultrathin Lateral 2D Photodetectors Using Transition-Metal Dichalcogenides PtSe <sub>2</sub> and WS <sub>2</sub> by Direct Laser Patterning. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1029-1038.	2.0	4
3	Atomic-Level Dynamics of Point Vacancies and the Induced Stretched Defects in 2D Monolayer PtSe <sub>2</sub> . <i>Nano Letters</i> , 2022, 22, 3289-3297.	4.5	9
4	Selective Chemical Vapor Deposition Growth of WS <sub>2</sub> /MoS <sub>2</sub> Vertical and Lateral Heterostructures on Gold Foils. <i>Nanomaterials</i> , 2022, 12, 1696.	1.9	2
5	Precise Layer-Dependent Electronic Structure of MBE-Grown PtSe <sub>2</sub> . <i>Advanced Electronic Materials</i> , 2021, 7, 2100559.	2.6	16
6	The metallic nature of two-dimensional transition-metal dichalcogenides and MXenes. <i>Surface Science Reports</i> , 2021, 76, 100542.	3.8	13
7	Atomic Structure of Dislocations and Grain Boundaries in Two-Dimensional PtSe <sub>2</sub> . <i>ACS Nano</i> , 2021, 15, 16748-16759.	7.3	12
8	Controlling Photoluminescence Enhancement and Energy Transfer in WS <sub>2</sub> :hBN:WS <sub>2</sub> Vertical Stacks by Precise Interlayer Distances. <i>Small</i> , 2020, 16, e1905985.	5.2	26
9	Single-Step Chemical Vapor Deposition Growth of Platinum Nanocrystal: Monolayer MoS <sub>2</sub> Dendrite Hybrid Materials for Efficient Electrocatalysis. <i>Chemistry of Materials</i> , 2020, 32, 8243-8256.	3.2	23
10	Waterproof molecular monolayers stabilize 2D materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20844-20849.	3.3	32
11	Thermal Degradation of Monolayer MoS <sub>2</sub> on SrTiO <sub>3</sub> Supports. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3876-3885.	1.5	17
12	Symmetry-Controlled Reversible Photovoltaic Current Flow in Ultrathin All 2D Vertically Stacked Graphene/MoS <sub>2</sub> /WS <sub>2</sub> /Graphene Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 2234-2242.	4.0	32
13	Utilizing Interlayer Excitons in Bilayer WS <sub>2</sub> for Increased Photovoltaic Response in Ultrathin Graphene Vertical Cross-Bar Photodetecting Tunneling Transistors. <i>ACS Nano</i> , 2018, 12, 4669-4677.	7.3	37
14	Determining the Optimized Interlayer Separation Distance in Vertical Stacked 2D WS <sub>2</sub> :hBN:MoS <sub>2</sub> Heterostructures for Exciton Energy Transfer. <i>Small</i> , 2018, 14, e1703727.	5.2	54
15	Large Dendritic Monolayer MoS <sub>2</sub> Grown by Atmospheric Pressure Chemical Vapor Deposition for Electrocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 4630-4639.	4.0	88
16	Epitaxial Growth of Monolayer MoS <sub>2</sub> on SrTiO <sub>3</sub> Single Crystal Substrates for Applications in Nanoelectronics. <i>ACS Applied Nano Materials</i> , 2018, 1, 6976-6988.	2.4	34
17	Inhomogeneous Strain Release during Bending of WS <sub>2</sub> on Flexible Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39177-39186.	4.0	17
18	High-Performance Two-Dimensional Schottky Diodes Utilizing Chemical Vapour Deposition-Grown Graphene-MoS <sub>2</sub> Heterojunctions. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 37258-37266.	4.0	30

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19	Blister-based-laser-induced-forward-transfer: a non-contact, dry laser-based transfer method for nanomaterials. <i>Nanotechnology</i> , 2018, 29, 385301.	1.3	14
20	Ultralong 1D Vacancy Channels for Rapid Atomic Migration during 2D Void Formation in Monolayer MoS <sub>2</sub> . <i>ACS Nano</i> , 2018, 12, 7721-7730.	7.3	54
21	Nanoporous Silicon-Assisted Patterning of Monolayer MoS <sub>2</sub> with Thermally Controlled Porosity: A Scalable Method for Diverse Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 3548-3556.	2.4	3
22	Photoluminescence Segmentation within Individual Hexagonal Monolayer Tungsten Disulfide Domains Grown by Chemical Vapor Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 15005-15014.	4.0	59
23	Epitaxial Templating of Two-Dimensional Metal Chloride Nanocrystals on Monolayer Molybdenum Disulfide. <i>ACS Nano</i> , 2017, 11, 6404-6415.	7.3	20
24	Photoluminescent Arrays of Nanopatterned Monolayer MoS <sub>2</sub> . <i>Advanced Functional Materials</i> , 2017, 27, 1703688.	7.8	35
25	Lateral Graphene-Contacted Vertically Stacked WS <sub>2</sub> /MoS <sub>2</sub> Hybrid Photodetectors with Large Gain. <i>Advanced Materials</i> , 2017, 29, 1702917.	11.1	111
26	Atomically Flat Zigzag Edges in Monolayer MoS <sub>2</sub> by Thermal Annealing. <i>Nano Letters</i> , 2017, 17, 5502-5507.	4.5	70
27	Atomic Structure and Dynamics of Defects in 2D MoS <sub>2</sub> Bilayers. <i>ACS Omega</i> , 2017, 2, 3315-3324.	1.6	32
28	Ultrathin 2D Photodetectors Utilizing Chemical Vapor Deposition Grown WS <sub>2</sub> With Graphene Electrodes. <i>ACS Nano</i> , 2016, 10, 7866-7873.	7.3	264
29	Revealing Defect-State Photoluminescence in Monolayer WS <sub>2</sub> by Cryogenic Laser Processing. <i>ACS Nano</i> , 2016, 10, 5847-5855.	7.3	91
30	Biexciton Formation in Bilayer Tungsten Disulfide. <i>ACS Nano</i> , 2016, 10, 2176-2183.	7.3	57
31	Mixed multilayered vertical heterostructures utilizing strained monolayer WS <sub>2</sub> . <i>Nanoscale</i> , 2016, 8, 2639-2647.	2.8	27