

Xiaochen Wang

List of Publications by Year in descending order

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papers

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citations

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docs citations

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times ranked

3283
citing authors

#	ARTICLE	IF	CITATIONS
1	All Chemical Vapor Deposition Growth of MoS ₂ :h-BN Vertical van der Waals Heterostructures. ACS Nano, 2015, 9, 5246-5254.	7.3	326
2	Lateral Graphene-Contacted Vertically Stacked WS ₂ /MoS ₂ Hybrid Photodetectors with Large Gain. Advanced Materials, 2017, 29, 1702917.	11.1	111
3	Revealing Defect-State Photoluminescence in Monolayer WS ₂ by Cryogenic Laser Processing. ACS Nano, 2016, 10, 5847-5855.	7.3	91
4	Large Dendritic Monolayer MoS ₂ Grown by Atmospheric Pressure Chemical Vapor Deposition for Electrocatalysis. ACS Applied Materials & Interfaces, 2018, 10, 4630-4639.	4.0	88
5	High Photoresponsivity in Ultrathin 2D Lateral Graphene:WS ₂ :Graphene Photodetectors Using Direct CVD Growth. ACS Applied Materials & Interfaces, 2019, 11, 6421-6430.	4.0	78
6	Graphitic Carbon Nitride Supported Catalysts for Polymer Electrolyte Fuel Cells. Journal of Physical Chemistry C, 2014, 118, 6831-6838.	1.5	63
7	Photoinduced Schottky Barrier Lowering in 2D Monolayer WS ₂ Photodetectors. Advanced Optical Materials, 2016, 4, 1573-1581.	3.6	62
8	Growth of Large Single-Crystalline Monolayer Hexagonal Boron Nitride by Oxide-Assisted Chemical Vapor Deposition. Chemistry of Materials, 2017, 29, 6252-6260.	3.2	60
9	Photoluminescence Segmentation within Individual Hexagonal Monolayer Tungsten Disulfide Domains Grown by Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2017, 9, 15005-15014.	4.0	59
10	Biexciton Formation in Bilayer Tungsten Disulfide. ACS Nano, 2016, 10, 2176-2183.	7.3	57
11	Determining the Optimized Interlayer Separation Distance in Vertical Stacked 2D WS ₂ :hBN:MoS ₂ Heterostructures for Exciton Energy Transfer. Small, 2018, 14, e1703727.	5.2	54
12	Hydrogen Addition for Centimeter-Sized Monolayer Tungsten Disulfide Continuous Films by Ambient Pressure Chemical Vapor Deposition. Chemistry of Materials, 2017, 29, 4904-4911.	3.2	49
13	Hydrogen-Assisted Growth of Large-Area Continuous Films of MoS ₂ on Monolayer Graphene. ACS Applied Materials & Interfaces, 2018, 10, 7304-7314.	4.0	47
14	Oligomeric aminoborane precursors for the chemical vapour deposition growth of few-layer hexagonal boron nitride. CrystEngComm, 2017, 19, 285-294.	1.3	41
15	Photoluminescent Arrays of Nanopatterned Monolayer MoS ₂ . Advanced Functional Materials, 2017, 27, 1703688.	7.8	35
16	Chemical Vapor Deposition Growth of Two-Dimensional Monolayer Gallium Sulfide Crystals Using Hydrogen Reduction of Ga ₂ S ₃ . ACS Omega, 2018, 3, 7897-7903.	1.6	35
17	High-Performance All 2D-Layered Tin Disulfide: Graphene Photodetecting Transistors with Thickness-Controlled Interface Dynamics. ACS Applied Materials & Interfaces, 2018, 10, 13002-13010.	4.0	32
18	Electroluminescence Dynamics across Grain Boundary Regions of Monolayer Tungsten Disulfide. ACS Nano, 2016, 10, 1093-1100.	7.3	31

#	ARTICLE	IF	CITATIONS
19	Increasing the electrochemical activity of basal plane sites in porous 3D edge rich MoS ₂ thin films for the hydrogen evolution reaction. <i>Materials Today Energy</i> , 2019, 13, 134-144.	2.5	31
20	Mixed multilayered vertical heterostructures utilizing strained monolayer WS ₂ . <i>Nanoscale</i> , 2016, 8, 2639-2647.	2.8	27
21	Defect-Free Metal Deposition on 2D Materials via Inkjet Printing Technology. <i>Advanced Materials</i> , 2022, 34, e2104138.	11.1	22