

# Jusang Park

## List of Publications by Year in descending order

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28  
papers

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citations

430754

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docs citations

28  
times ranked

3355  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of Gas-Sensing Performance of Large-Area Tungsten Disulfide Nanosheets by Surface Functionalization. ACS Nano, 2016, 10, 9287-9296.	7.3	351
2	Layer-Controlled, Wafer-Scale, and Conformal Synthesis of Tungsten Disulfide Nanosheets Using Atomic Layer Deposition. ACS Nano, 2013, 7, 11333-11340.	7.3	324
3	Controllable synthesis of molybdenum tungsten disulfide alloy for vertically composition-controlled multilayer. Nature Communications, 2015, 6, 7817.	5.8	188
4	Low-temperature synthesis of 2D MoS <sub>2</sub> on a plastic substrate for a flexible gas sensor. Nanoscale, 2018, 10, 9338-9345.	2.8	142
5	Improved Sensitivity in Schottky Contacted Two-Dimensional MoS <sub>2</sub> Gas Sensor. ACS Applied Materials & Interfaces, 2019, 11, 38902-38909.	4.0	117
6	Recovery Improvement for Large-Area Tungsten Diselenide Gas Sensors. ACS Applied Materials & Interfaces, 2018, 10, 23910-23917.	4.0	115
7	2D Transition Metal Dichalcogenide Heterostructures for p- and n-Type Photovoltaic Self-Powered Gas Sensor. Advanced Functional Materials, 2020, 30, 2003360.	7.8	102
8	High-Performance Gas Sensor Using a Large-Area WS <sub>2</sub> /Se <sub>2</sub> Alloy for Low-Power Operation Wearable Applications. ACS Applied Materials & Interfaces, 2018, 10, 34163-34171.	4.0	93
9	Layer-modulated synthesis of uniform tungsten disulfide nanosheet using gas-phase precursors. Nanoscale, 2015, 7, 1308-1313.	2.8	86
10	Self-Limiting Layer Synthesis of Transition Metal Dichalcogenides. Scientific Reports, 2016, 6, 18754.	1.6	74
11	Atomic layer deposition of Y <sub>2</sub> O <sub>3</sub> and yttrium-doped HfO <sub>2</sub> using a newly synthesized Y(iPrCp) <sub>2</sub> (N-iPr-amd) precursor for a high permittivity gate dielectric. Applied Surface Science, 2014, 297, 16-21.	3.1	54
12	Catalytic chemical vapor deposition of large-area uniform two-dimensional molybdenum disulfide using sodium chloride. Nanotechnology, 2017, 28, 465103.	1.3	42
13	Atomic Layer Deposition-Based 2D Transition Metal Chalcogenides: Synthesis, Modulation, and Applications. Advanced Materials, 2021, 33, e2005907.	11.1	42
14	Effect of Al <sub>2</sub> O <sub>3</sub> Deposition on Performance of Top-Gated Monolayer MoS <sub>2</sub> -Based Field Effect Transistor. ACS Applied Materials & Interfaces, 2016, 8, 28130-28135.	4.0	40
15	Uniform, large-area self-limiting layer synthesis of tungsten diselenide. 2D Materials, 2016, 3, 014004.	2.0	40
16	n-ZnO:N/p-Si nanowire photodiode prepared by atomic layer deposition. Applied Physics Letters, 2012, 100, .	1.5	32
17	Characterization of wafer-scale MoS <sub>2</sub> and WSe <sub>2</sub> 2D films by spectroscopic ellipsometry. Current Applied Physics, 2017, 17, 1329-1334.	1.1	26
18	Synthesis of two-dimensional MoS <sub>2</sub> /graphene heterostructure by atomic layer deposition using MoF <sub>6</sub> precursor. Applied Surface Science, 2019, 494, 591-599.	3.1	25

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19	Nitrogen-doped ZnO/n-Si core-shell nanowire photodiode prepared by atomic layer deposition. <i>Materials Science in Semiconductor Processing</i> , 2015, 33, 154-160.	1.9	19
20	ZnO homojunction core-shell nanorods ultraviolet photo-detecting diodes prepared by atomic layer deposition. <i>Sensors and Actuators A: Physical</i> , 2014, 210, 197-204.	2.0	17
21	Textile-based high-performance hydrogen evolution of low-temperature atomic layer deposition of cobalt sulfide. <i>Nanoscale</i> , 2019, 11, 844-850.	2.8	17
22	Fabrication of Transferable Al <sub>2</sub> O <sub>3</sub> Nanosheet by Atomic Layer Deposition for Graphene FET. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 2764-2769.	4.0	16
23	Comparison of hydrogen sulfide gas and sulfur powder for synthesis of molybdenum disulfide nanosheets. <i>Current Applied Physics</i> , 2016, 16, 691-695.	1.1	15
24	Plasma enhanced atomic layer deposition of magnesium oxide as a passivation layer for enhanced photoluminescence of ZnO nanowires. <i>Journal of Luminescence</i> , 2014, 145, 307-311.	1.5	14
25	Interface Defect Engineering of a Large-scale CVD-Grown MoS <sub>2</sub> Monolayer via Residual Sodium at the SiO <sub>2</sub> /Si Substrate. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100428.	1.9	14
26	Investigation of atomic layer deposition of magnesium oxide on a CoFeB layer for three-dimensional magnetic tunneling junctions. <i>Journal of Alloys and Compounds</i> , 2014, 588, 716-719.	2.8	11
27	Vapor Deposition Techniques for Synthesis of Two-Dimensional Transition Metal Dichalcogenides. <i>Applied Microscopy</i> , 2015, 45, 119-125.	0.8	7
28	Phase transition of a MoS <sub>2</sub> monolayer through top layer desulfurization by He <sup>+</sup> ion irradiation. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	4