Jusang Park

List of Publications by Year in descending order

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28	2,027	430754	501076
papers	citations	18 h-index	28 g-index

28	28	28	3355
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phase transition of a MoS2 monolayer through top layer desulfurization by He+ ion irradiation. Journal of Applied Physics, 2022, 131, .	1.1	4
2	Atomicâ€Layerâ€Depositionâ€Based 2D Transition Metal Chalcogenides: Synthesis, Modulation, and Applications. Advanced Materials, 2021, 33, e2005907.	11.1	42
3	Interface Defect Engineering of a Largeâ€Scale CVDâ€Grown MoS₂ Monolayer via Residual Sodium at the SiO₂/Si Substrate. Advanced Materials Interfaces, 2021, 8, 2100428.	1.9	14
4	2D Transition Metal Dichalcogenide Heterostructures for pâ€•and nâ€Type Photovoltaic Selfâ€Powered Gas Sensor. Advanced Functional Materials, 2020, 30, 2003360.	7.8	102
5	Synthesis of two-dimensional MoS2/graphene heterostructure by atomic layer deposition using MoF6 precursor. Applied Surface Science, 2019, 494, 591-599.	3.1	25
6	Improved Sensitivity in Schottky Contacted Two-Dimensional MoS₂ Gas Sensor. ACS Applied Materials & Interfaces, 2019, 11, 38902-38909.	4.0	117
7	Textile-based high-performance hydrogen evolution of low-temperature atomic layer deposition of cobalt sulfide. Nanoscale, 2019, 11, 844-850.	2.8	17
8	High-Performance Gas Sensor Using a Large-Area WS_{2x}Se_{2â€“2x} Alloy for Low-Power Operation Wearable Applications. ACS Applied Materials & Interfaces, 2018, 10, 34163-34171.	4.0	93
9	Recovery Improvement for Large-Area Tungsten Diselenide Gas Sensors. ACS Applied Materials & Interfaces, 2018, 10, 23910-23917.	4.0	115
10	Low-temperature synthesis of 2D MoS₂ on a plastic substrate for a flexible gas sensor. Nanoscale, 2018, 10, 9338-9345.	2.8	142
11	Catalytic chemical vapor deposition of large-area uniform two-dimensional molybdenum disulfide using sodium chloride. Nanotechnology, 2017, 28, 465103.	1.3	42
12	Characterization of wafer-scale MoS 2 and WSe 2 2D films by spectroscopic ellipsometry. Current Applied Physics, 2017, 17, 1329-1334.	1.1	26
13	Self-Limiting Layer Synthesis of Transition Metal Dichalcogenides. Scientific Reports, 2016, 6, 18754.	1.6	74
14	Comparison of hydrogen sulfide gas and sulfur powder for synthesis of molybdenum disulfide nanosheets. Current Applied Physics, 2016, 16, 691-695.	1.1	15
15	Effect of Al₂O₃ Deposition on Performance of Top-Gated Monolayer MoS₂-Based Field Effect Transistor. ACS Applied Materials & Interfaces, 2016, 8, 28130-28135.	4.0	40
16	Improvement of Gas-Sensing Performance of Large-Area Tungsten Disulfide Nanosheets by Surface Functionalization. ACS Nano, 2016, 10, 9287-9296.	7.3	351
17	Uniform, large-area self-limiting layer synthesis of tungsten diselenide. 2D Materials, 2016, 3, 014004.	2.0	40
18	Controllable synthesis of molybdenum tungsten disulfide alloy for vertically composition-controlled multilayer. Nature Communications, 2015, 6, 7817.	5.8	188

#	Article	IF	Citations
19	Nitrogen-doped ZnO/n-Si coreâ€“shell nanowire photodiode prepared by atomic layer deposition. Materials Science in Semiconductor Processing, 2015, 33, 154-160.	1.9	19
20	Layer-modulated synthesis of uniform tungsten disulfide nanosheet using gas-phase precursors. Nanoscale, 2015, 7, 1308-1313.	2.8	86
21	Vapor Deposition Techniques for Synthesis of Two-Dimensional Transition Metal Dichalcogenides. Applied Microscopy, 2015, 45, 119-125.	0.8	7
22	Atomic layer deposition of Y2O3 and yttrium-doped HfO2 using a newly synthesized Y(iPrCp)2(N-iPr-amd) precursor for a high permittivity gate dielectric. Applied Surface Science, 2014, 297, 16-21.	3.1	54
23	Investigation of atomic layer deposition of magnesium oxide on a CoFeB layer for three-dimensional magnetic tunneling junctions. Journal of Alloys and Compounds, 2014, 588, 716-719.	2.8	11
24	Fabrication of Transferable Al₂O₃ Nanosheet by Atomic Layer Deposition for Graphene FET. ACS Applied Materials & Interfaces, 2014, 6, 2764-2769.	4.0	16
25	ZnO homojunction coreâ€“shell nanorods ultraviolet photo-detecting diodes prepared by atomic layer deposition. Sensors and Actuators A: Physical, 2014, 210, 197-204.	2.0	17
26	Plasma enhanced atomic layer deposition of magnesium oxide as a passivation layer for enhanced photoluminescence of ZnO nanowires. Journal of Luminescence, 2014, 145, 307-311.	1.5	14
27	Layer-Controlled, Wafer-Scale, and Conformal Synthesis of Tungsten Disulfide Nanosheets Using Atomic Layer Deposition. ACS Nano, 2013, 7, 11333-11340.	7.3	324
28	n-ZnO:N/p-Si nanowire photodiode prepared by atomic layer deposition. Applied Physics Letters, 2012, 100, .	1.5	32