Jeong-Gyu Song

List of Publications by Year
in descending order

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		567144	552653
26	1,833	15	26
papers	citations	h-index	g-index

26	26	26	3412
all docs	docs citations	times ranked	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	Exciton dynamics in atomically thin MoS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>: Interexcitonic interaction and broadening kinetics. Physical Review B, 2013, 88, .	1.1	173
5	Low-temperature synthesis of 2D MoS₂ on a plastic substrate for a flexible gas sensor. Nanoscale, 2018, 10, 9338-9345.	2.8	142
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 pâ€•and nâ€Type Photovoltaic Selfâ€Powered Gas Sensor. Advanced Functional Materials, 2020, 30, 2003360.	7.8	102
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	Self-Limiting Layer Synthesis of Transition Metal Dichalcogenides. Scientific Reports, 2016, 6, 18754.	1.6	74
10	Catalytic chemical vapor deposition of large-area uniform two-dimensional molybdenum disulfide using sodium chloride. Nanotechnology, 2017, 28, 465103.	1.3	42
11	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
12	Uniform, large-area self-limiting layer synthesis of tungsten diselenide. 2D Materials, 2016, 3, 014004.	2.0	40
13	Synthesis of a Hybrid Nanostructure of ZnO-Decorated MoS₂ by Atomic Layer Deposition. ACS Nano, 2020, 14, 1757-1769.	7.3	29
14	In situ surface cleaning on a Ge substrate using TMA and MgCp₂for HfO₂-based gate oxides. Journal of Materials Chemistry C, 2015, 3, 4852-4858.	2.7	20
15	Comparison of hydrogen sulfide gas and sulfur powder for synthesis of molybdenum disulfide nanosheets. Current Applied Physics, 2016, 16, 691-695.	1.1	15
16	Water-Erasable Memory Device for Security Applications Prepared by the Atomic Layer Deposition of GeO₂. Chemistry of Materials, 2018, 30, 830-840.	3.2	15
17	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
18	Bi-layer high- k dielectrics of Al ₂ O ₃ /ZrO ₂ to reduce damage to MoS ₂ channel layers during atomic layer deposition. 2D Materials, 2019, 6, 015019.	2.0	12

#	Article	IF	Citations
19	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
20	A Separate Extraction Method for Asymmetric Source and Drain Resistances Using Frequency-Dispersive C-V Characteristics in Exfoliated MoS₂FET. IEEE Electron Device Letters, 2016, 37, 231-233.	2.2	7
21	Interlayer-assisted atomic layer deposition of MgO as a magnetic tunneling junction insulators. Journal of Alloys and Compounds, 2018, 747, 505-510.	2.8	7
22	Vapor Deposition Techniques for Synthesis of Two-Dimensional Transition Metal Dichalcogenides. Applied Microscopy, 2015, 45, 119-125.	0.8	7
23	MoS2 doping by atomic layer deposition of high-k dielectrics using alcohol as process oxidants. Applied Surface Science, 2021, 541, 148504.	3.1	6
24	Effects of TaN Diffusion Barrier on Cu-Gate ZnO:N Thin-Film Transistors. IEEE Electron Device Letters, 2016, 37, 599-602.	2.2	4
25	Highly stable 2D material (2DM) field-effect transistors (FETs) with wafer-scale multidyad encapsulation. Nanotechnology, 2017, 28, 055203.	1.3	1
26	Selfâ€Powered Gas Sensors: 2D Transition Metal Dichalcogenide Heterostructures for pâ€•and nâ€Type Photovoltaic Selfâ€Powered Gas Sensor (Adv. Funct. Mater. 43/2020). Advanced Functional Materials, 2020, 30, 2070284.	7.8	1