

# Jeong-Gyu Song

## List of Publications by Year in descending order

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26  
papers

1,833  
citations

567144

15  
h-index

552653

26  
g-index

26  
all docs

26  
docs citations

26  
times ranked

3412  
citing authors

#	ARTICLE	IF	CITATIONS
1	MoS <sub>2</sub> doping by atomic layer deposition of high-k dielectrics using alcohol as process oxidants. Applied Surface Science, 2021, 541, 148504.	3.1	6
2	Self-Powered Gas Sensors: 2D Transition Metal Dichalcogenide Heterostructures for p- and n-Type Photovoltaic Self-Powered Gas Sensor (Adv. Funct. Mater. 43/2020). Advanced Functional Materials, 2020, 30, 2070284.	7.8	1
3	2D Transition Metal Dichalcogenide Heterostructures for p- and n-Type Photovoltaic Self-Powered Gas Sensor. Advanced Functional Materials, 2020, 30, 2003360.	7.8	102
4	Synthesis of a Hybrid Nanostructure of ZnO-Decorated MoS <sub>2</sub> by Atomic Layer Deposition. ACS Nano, 2020, 14, 1757-1769.	7.3	29
5	Bi-layer high- <i>k</i> dielectrics of Al <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> to reduce damage to MoS <sub>2</sub> channel layers during atomic layer deposition. 2D Materials, 2019, 6, 015019.	2.0	12
6	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
7	Water-Erasable Memory Device for Security Applications Prepared by the Atomic Layer Deposition of GeO <sub>2</sub> . Chemistry of Materials, 2018, 30, 830-840.	3.2	15
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	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 MoS <sub>2</sub> on a plastic substrate for a flexible gas sensor. Nanoscale, 2018, 10, 9338-9345.	2.8	142
11	Highly stable 2D material (2DM) field-effect transistors (FETs) with wafer-scale multityad encapsulation. Nanotechnology, 2017, 28, 055203.	1.3	1
12	Catalytic chemical vapor deposition of large-area uniform two-dimensional molybdenum disulfide using sodium chloride. Nanotechnology, 2017, 28, 465103.	1.3	42
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	Effects of TaN Diffusion Barrier on Cu-Gate ZnO:N Thin-Film Transistors. IEEE Electron Device Letters, 2016, 37, 599-602.	2.2	4
16	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
17	Improvement of Gas-Sensing Performance of Large-Area Tungsten Disulfide Nanosheets by Surface Functionalization. ACS Nano, 2016, 10, 9287-9296.	7.3	351
18	Uniform, large-area self-limiting layer synthesis of tungsten diselenide. 2D Materials, 2016, 3, 014004.	2.0	40

#	ARTICLE	IF	CITATIONS
19	A Separate Extraction Method for Asymmetric Source and Drain Resistances Using Frequency-Dispersive C-V Characteristics in Exfoliated MoS <sub>2</sub> FET. IEEE Electron Device Letters, 2016, 37, 231-233.	2.2	7
20	In situ surface cleaning on a Ge substrate using TMA and MgCp <sub>2</sub> for HfO <sub>2</sub> -based gate oxides. Journal of Materials Chemistry C, 2015, 3, 4852-4858.	2.7	20
21	Controllable synthesis of molybdenum tungsten disulfide alloy for vertically composition-controlled multilayer. Nature Communications, 2015, 6, 7817.	5.8	188
22	Vapor Deposition Techniques for Synthesis of Two-Dimensional Transition Metal Dichalcogenides. Applied Microscopy, 2015, 45, 119-125.	0.8	7
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	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
25	Layer-Controlled, Wafer-Scale, and Conformal Synthesis of Tungsten Disulfide Nanosheets Using Atomic Layer Deposition. ACS Nano, 2013, 7, 11333-11340.	7.3	324
26	Exciton dynamics in atomically thin MoS <sub>2</sub> : Interexcitonic interaction and broadening kinetics. Physical Review B, 2013, 88, .	1.1	173