

# Whang Je Woo

## List of Publications by Year in descending order

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19  
papers

762  
citations

759055

12  
h-index

794469

19  
g-index

19  
all docs

19  
docs citations

19  
times ranked

1219  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-temperature synthesis of 2D MoS <sub>2</sub> on a plastic substrate for a flexible gas sensor. <i>Nanoscale</i> , 2018, 10, 9338-9345.	2.8	142
2	Recovery Improvement for Large-Area Tungsten Diselenide Gas Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 23910-23917.	4.0	115
3	2D Transition Metal Dichalcogenide Heterostructures for p- and n-Type Photovoltaic Self-Powered Gas Sensor. <i>Advanced Functional Materials</i> , 2020, 30, 2003360.	7.8	102
4	High-Performance Gas Sensor Using a Large-Area WS <sub>2</sub> /Se <sub>2</sub> Alloy for Low-Power Operation Wearable Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 34163-34171.	4.0	93
5	Self-Limiting Layer Synthesis of Transition Metal Dichalcogenides. <i>Scientific Reports</i> , 2016, 6, 18754.	1.6	74
6	Catalytic chemical vapor deposition of large-area uniform two-dimensional molybdenum disulfide using sodium chloride. <i>Nanotechnology</i> , 2017, 28, 465103.	1.3	42
7	Atomic-Layer-Deposition-Based 2D Transition Metal Chalcogenides: Synthesis, Modulation, and Applications. <i>Advanced Materials</i> , 2021, 33, e2005907.	11.1	42
8	Enhanced Light Stability of InGaZnO Thin-Film Transistors by Atomic-Layer-Deposited Y <sub>2</sub> O <sub>3</sub> with Ozone. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 2143-2150.	4.0	41
9	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. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 28130-28135.	4.0	40
10	Synthesis of two-dimensional MoS <sub>2</sub> /graphene heterostructure by atomic layer deposition using MoF <sub>6</sub> precursor. <i>Applied Surface Science</i> , 2019, 494, 591-599.	3.1	25
11	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
12	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. <i>2D Materials</i> , 2019, 6, 015019.	2.0	12
13	MoS <sub>2</sub> doping by atomic layer deposition of high- <i>k</i> dielectrics using alcohol as process oxidants. <i>Applied Surface Science</i> , 2021, 541, 148504.	3.1	6
14	Reaction Mechanisms of Non-hydrolytic Atomic Layer Deposition of Al <sub>2</sub> O <sub>3</sub> with a Series of Alcohol Oxidants. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18151-18160.	1.5	6
15	Effects of TaN Diffusion Barrier on Cu-Gate ZnO:N Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2016, 37, 599-602.	2.2	4
16	Highly stable 2D material (2DM) field-effect transistors (FETs) with wafer-scale multiday ad encapsulation. <i>Nanotechnology</i> , 2017, 28, 055203.	1.3	1
17	High-Performance Ink-Synthesized Cu-Gate Thin-Film Transistor with Diffusion Barrier Formation. <i>Metals and Materials International</i> , 2018, 24, 652-656.	1.8	1
18	Self-Powered Gas Sensors: 2D Transition Metal Dichalcogenide Heterostructures for p- and n-Type Photovoltaic Self-Powered Gas Sensor ( <i>Adv. Funct. Mater.</i> 43/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070284.	7.8	1

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19	Interface Defect Engineering of MoS <sub>2</sub> Monolayer: 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 (Adv. Mater. Interfaces 14/2021). Advanced Materials Interfaces, 2021, 8, 2170080.	1.9	1