

Hyun Kim

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Large Work Function Modulation of Monolayer MoS ₂ by Ambient Gases. ACS Nano, 2016, 10, 6100-6107.	14.6	188
2	Photochemical Reaction in Monolayer MoS ₂ <i>via</i> Correlated Photoluminescence, Raman Spectroscopy, and Atomic Force Microscopy. ACS Nano, 2016, 10, 5230-5236.	14.6	101
3	Oxidation Effect in Octahedral Hafnium Disulfide Thin Film. ACS Nano, 2016, 10, 1309-1316.	14.6	97
4	Thickness-dependent in-plane thermal conductivity of suspended MoS ₂ grown by chemical vapor deposition. Nanoscale, 2017, 9, 2541-2547.	5.6	86
5	Atomic Observation of Filling Vacancies in Monolayer Transition Metal Sulfides by Chemically Sourced Sulfur Atoms. Nano Letters, 2018, 18, 4523-4530.	9.1	83
6	Augmented Quantum Yield of a 2D Monolayer Photodetector by Surface Plasmon Coupling. Nano Letters, 2018, 18, 2316-2323.	9.1	82
7	Electron Excess Doping and Effective Schottky Barrier Reduction on the MoS ₂ / <i>h</i> -BN Heterostructure. Nano Letters, 2016, 16, 6383-6389.	9.1	78
8	Role of alkali metal promoter in enhancing lateral growth of monolayer transition metal dichalcogenides. Nanotechnology, 2017, 28, 36LT01.	2.6	56
9	Photocurrent Switching of Monolayer MoS ₂ Using a Metal-Insulator Transition. Nano Letters, 2017, 17, 673-678.	9.1	31
10	Seed Growth of Tungsten Diselenide Nanotubes from Tungsten Oxides. Small, 2015, 11, 2192-2199.	10.0	20
11	Local Enhancement of Exciton Emission of Monolayer MoS ₂ by Copper Phthalocyanine Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 6794-6800.	3.1	19
12	Bandgap Renormalization in Monolayer MoS ₂ on CsPbBr ₃ Quantum Dots via Charge Transfer at Room Temperature. Advanced Materials Interfaces, 2020, 7, 2000835.	3.7	8
13	Modulation of Optical and Electrical Characteristics by Laterally Stretching DNAs on CVD-Grown Monolayers of MoS ₂ . Journal of Nanomaterials, 2017, 2017, 1-6.	2.7	7
14	Gas adsorbates are Coulomb scatterers, rather than neutral ones, in a monolayer MoS ₂ field effect transistor. Nanoscale, 2018, 10, 10856-10862.	5.6	7
15	Fabrication of Stacked MoS ₂ Bilayer with Weak Interlayer Coupling by Reduced Graphene Oxide Spacer. Scientific Reports, 2019, 9, 5900.	3.3	6
16	Electrothermal Local Annealing via Graphite Joule Heating on Two-Dimensional Layered Transistors. ACS Applied Materials & Interfaces, 2018, 10, 25638-25643.	8.0	3
17	Memristors: A High On/Off Ratio Floating-Gate Memristor Array on a Flexible Substrate via CVD-Grown Large Area 2D Layer Stacking (Adv. Mater. 44/2017). Advanced Materials, 2017, 29, .	21.0	1
18	Impact of Heat Treatment on a Hetero-Stacked MoS ₂ / <i>h</i> -BN Field-Effect Transistor. IEEE Electron Device Letters, 2019, 40, 1626-1629.	3.9	1