

# Min Sup Choi

## List of Publications by Year in descending order

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22  
papers

3,699  
citations

471509

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677142

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docs citations

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times ranked

6153  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible and Transparent MoS <sub>2</sub> Field-Effect Transistors on Hexagonal Boron Nitride-Graphene Heterostructures. ACS Nano, 2013, 7, 7931-7936.	14.6	947
2	Fermi Level Pinning at Electrical Metal Contacts of Monolayer Molybdenum Dichalcogenides. ACS Nano, 2017, 11, 1588-1596.	14.6	618
3	Controlled charge trapping by molybdenum disulphide and graphene in ultrathin heterostructured memory devices. Nature Communications, 2013, 4, 1624.	12.8	595
4	Lateral MoS <sub>2</sub> p-n Junction Formed by Chemical Doping for Use in High-Performance Optoelectronics. ACS Nano, 2014, 8, 9332-9340.	14.6	507
5	Transferred via contacts as a platform for ideal two-dimensional transistors. Nature Electronics, 2019, 2, 187-194.	26.0	172
6	Electrical characterization of 2D materials-based field-effect transistors. 2D Materials, 2021, 8, 012002.	4.4	111
7	Carrier transport at the metal-MoS <sub>2</sub> interface. Nanoscale, 2015, 7, 9222-9228.	5.6	99
8	Metal-Semiconductor Barrier Modulation for High Photoresponse in Transition Metal Dichalcogenide Field Effect Transistors. Scientific Reports, 2014, 4, 4041.	3.3	99
9	Fermi Level Pinning Dependent 2D Semiconductor Devices: Challenges and Prospects. Advanced Materials, 2022, 34, e2108425.	21.0	80
10	Passivated ambipolar black phosphorus transistors. Nanoscale, 2016, 8, 12773-12779.	5.6	77
11	Electrically Driven Reversible Phase Changes in Layered In <sub>2</sub> Se <sub>3</sub> Crystalline Film. Advanced Materials, 2017, 29, 1703568.	21.0	77
12	Effects of plasma treatment on surface properties of ultrathin layered MoS <sub>2</sub> . 2D Materials, 2016, 3, 035002.	4.4	59
13	Plasma treatments to improve metal contacts in graphene field effect transistor. Journal of Applied Physics, 2011, 110, .	2.5	53
14	High Electric Field Carrier Transport and Power Dissipation in Multilayer Black Phosphorus Field Effect Transistor with Dielectric Engineering. Advanced Functional Materials, 2017, 27, 1604025.	14.9	47
15	High carrier mobility in graphene doped using a monolayer of tungsten oxyselenide. Nature Electronics, 2021, 4, 731-739.	26.0	41
16	High performance vertical tunneling diodes using graphene/hexagonal boron nitride/graphene hetero-structure. Applied Physics Letters, 2014, 104, 053103.	3.3	35
17	Damage-Free Atomic Layer Etch of WSe <sub>2</sub> : A Platform for Fabricating Clean Two-Dimensional Devices. ACS Applied Materials & Interfaces, 2021, 13, 1930-1942.	8.0	24
18	Homogeneous molybdenum disulfide tunnel diode formed <i>via</i> chemical doping. Applied Physics Letters, 2018, 112, .	3.3	15

#	ARTICLE	IF	CITATIONS
19	Low-Resistance p-Type Ohmic Contacts to Ultrathin WSe <sub>2</sub> by Using a Monolayer Dopant. ACS Applied Electronic Materials, 2021, 3, 2941-2947.	4.3	14
20	Chemical Dopant-Free Doping by Annealing and Electron Beam Irradiation on 2D Materials. Advanced Electronic Materials, 2021, 7, 2100449.	5.1	14
21	Analytical measurements of contact resistivity in two-dimensional WSe <sub>2</sub> field-effect transistors. 2D Materials, 2021, 8, 045019.	4.4	9
22	Anomalously persistent p-type behavior of WSe <sub>2</sub> field-effect transistors by oxidized edge-induced Fermi-level pinning. Journal of Materials Chemistry C, 2022, 10, 846-853.	5.5	5