

# Hyunho Kim

## List of Publications by Citations

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24  
papers

1,454  
citations

12  
h-index

25  
g-index

25  
ext. papers

2,023  
ext. citations

16.7  
avg, IF

5.47  
L-index

#	Paper	IF	Citations
24	MXenes stretch hydrogel sensor performance to new limits. <i>Science Advances</i> , <b>2018</b> , 4, eaat0098	14.3	334
23	Heteroatom-Mediated Interactions between Ruthenium Single Atoms and an MXene Support for Efficient Hydrogen Evolution. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903841	24	197
22	Thermoelectric Properties of Two-Dimensional Molybdenum-Based MXenes. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 6472-6479	9.6	163
21	MXetronics: Electronic and photonic applications of MXenes. <i>Nano Energy</i> , <b>2019</b> , 60, 179-197	17.1	128
20	MXene-Contacted Silicon Solar Cells with 11.5% Efficiency. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900180	21.8	117
19	MXene Printing and Patterned Coating for Device Applications. <i>Advanced Materials</i> , <b>2020</b> , 32, e1908486	24	116
18	Oxide Thin-Film Electronics using All-MXene Electrical Contacts. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706656	24	113
17	MXetronics: MXene-Enabled Electronic and Photonic Devices <b>2020</b> , 2, 55-70		78
16	Highly Stretchable and Air-Stable PEDOT:PSS/Ionic Liquid Composites for Efficient Organic Thermoelectrics. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3519-3526	9.6	51
15	Ultrasound-Driven Two-Dimensional TiCT MXene Hydrogel Generator. <i>ACS Nano</i> , <b>2020</b> , 14, 3199-3207	16.7	43
14	Photothermoelectric Response of TiCT MXene Confined Ion Channels. <i>ACS Nano</i> , <b>2020</b> , 14, 9042-9049	16.7	25
13	Oxidant-Dependent Thermoelectric Properties of Undoped ZnO Films by Atomic Layer Deposition. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 2794-2802	9.6	17
12	All-Solution-Processed Quantum Dot Electrical Double-Layer Transistors Enhanced by Surface Charges of TiCT MXene Contacts. <i>ACS Nano</i> , <b>2021</b> , 15, 5221-5229	16.7	12
11	Low-Temperature-Processed Colloidal Quantum Dots as Building Blocks for Thermoelectrics. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803049	21.8	11
10	Iontronics Using VCT MXene-Derived Metal-Organic Framework Solid Electrolytes. <i>ACS Nano</i> , <b>2020</b> , 14, 9840-9847	16.7	10
9	Highly Passivated n-Type Colloidal Quantum Dots for Solution-Processed Thermoelectric Generators with Large Output Voltage. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901244	21.8	9
8	Growth of Two-Dimensional Materials at the Wafer Scale. <i>Advanced Materials</i> , <b>2021</b> , e2108258	24	9

7	Muscle Fatigue Sensor Based on Ti C T MXene Hydrogel.. <i>Small Methods</i> , <b>2021</b> , 5, e2100819	12.8	5
6	Titanium Carbide MXene Nucleation Layer for Epitaxial Growth of High-Quality GaN Nanowires on Amorphous Substrates. <i>ACS Nano</i> , <b>2020</b> , 14, 2202-2211	16.7	5
5	High-Yield Ti C T MXene-MoS Integrated Circuits. <i>Advanced Materials</i> , <b>2021</b> , e2107370	24	4
4	Generation of multi-dimensional defect structures for synergetic engineering of hole and phonon transport: enhanced thermoelectric performance in Sb and Cu co-doped GeTe. <i>Inorganic Chemistry Frontiers</i> , <b>2021</b> , 8, 2782-2787	6.8	4
3	Solar Cells: MXene-Contacted Silicon Solar Cells with 11.5% Efficiency (Adv. Energy Mater. 22/2019). <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1970083	21.8	3
2	Dopant-Assisted Matrix Stabilization Enables Thermoelectric Performance Enhancement in n-Type Quantum Dot Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 18999-19007	9.5	0
1	Thin-Film Electronics: Oxide Thin-Film Electronics using All-MXene Electrical Contacts (Adv. Mater. 15/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870103	24	