

# Heejun Yang

## List of Publications by Year in descending order

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28  
papers

792  
citations

567281

15  
h-index

526287

27  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1086  
citing authors

#	ARTICLE	IF	CITATIONS
1	In-sensor reservoir computing for language learning via two-dimensional memristors. Science Advances, 2021, 7, .	10.3	175
2	Synaptic Computation Enabled by Joule Heating of Single-Layered Semiconductors for Sound Localization. Nano Letters, 2018, 18, 3229-3234.	9.1	134
3	Long-Range Lattice Engineering of $\text{MoTe}_2$ by a 2D Electride. Nano Letters, 2017, 17, 3363-3368.	9.1	72
4	Recent Progress in Synaptic Devices Based on 2D Materials. Advanced Intelligent Systems, 2020, 2, 1900167.	6.1	55
5	Tunable Out-of-Plane Piezoelectricity in Thin-Layered $\text{MoTe}_2$ by Surface Corrugation-Mediated Flexoelectricity. ACS Applied Materials & Interfaces, 2018, 10, 27424-27431.	8.0	44
6	Vertical Heterophase for Electrical, Electrochemical, and Mechanical Manipulations of Layered $\text{MoTe}_2$ . Advanced Functional Materials, 2019, 29, 1904504.	14.9	40
7	Role of anionic vacancy for active hydrogen evolution in $\text{WTe}_2$ . Applied Surface Science, 2020, 515, 145972.	6.1	34
8	Coherent Thermoelectric Power from Graphene Quantum Dots. Nano Letters, 2019, 19, 61-68.	9.1	25
9	Selective growth of monolayer semiconductors for diverse synaptic junctions. 2D Materials, 2019, 6, 015029.	4.4	25
10	Hybrid catalyst with monoclinic $\text{MoTe}_2$ and platinum for efficient hydrogen evolution. APL Materials, 2019, 7, .	5.1	24
11	Heterophase Boundary for Active Hydrogen Evolution in $\text{MoTe}_2$ . Advanced Functional Materials, 2022, 32, 2105675.	14.9	21
12	Active hydrogen evolution on the plasma-treated edges of $\text{WTe}_2$ . APL Materials, 2021, 9, .	5.1	19
13	Resonant Tunneling Spectroscopy to Probe the Giant Stark Effect in Atomically Thin Materials. Advanced Materials, 2020, 32, e1906942.	21.0	18
14	In Operando Stacking of Reduced Graphene Oxide for Active Hydrogen Evolution. ACS Applied Materials & Interfaces, 2019, 11, 43460-43465.	8.0	17
15	Symmetry Dictated Grain Boundary State in a Two-Dimensional Topological Insulator. Nano Letters, 2020, 20, 5837-5843.	9.1	16
16	Sizable Suppression of Thermal Hall Effect upon Isotopic Substitution in $\text{SrTiO}_3$ . Physical Review Letters, 2021, 126, 015901.	7.8	11
17	Mitrofanovite, Layered Platinum Telluride, for Active Hydrogen Evolution. ACS Applied Materials & Interfaces, 2021, 13, 2437-2446.	8.0	10
18	Proximity Engineering of the van der Waals Interaction in Multilayered Graphene. ACS Applied Materials & Interfaces, 2019, 11, 42528-42533.	8.0	9

#	ARTICLE	IF	CITATIONS
19	Large-Area MoS <sub>2</sub> via Colloidal Nanosheet Ink for Integrated Memtransistor. <i>Small Methods</i> , 2021, 5, 2100558.	8.6	8
20	Robust Quantum Oscillation of Dirac Fermions in a Single-Defect Resonant Transistor. <i>ACS Nano</i> , 2021, 15, 20013-20019.	14.6	6
21	Classical and quantum phases in hexagonal boron nitride-combined van der Waals heterostructures. <i>Information Materials</i> , 2021, 3, 252-270.	17.3	5
22	Lifshitz Transition and Non-Fermi Liquid Behavior in Highly Doped Semimetals. <i>Advanced Materials</i> , 2021, 33, 2005742.	21.0	5
23	Thermomechanical Manipulation of Electric Transport in MoTe <sub>2</sub> . <i>Advanced Electronic Materials</i> , 2021, 7, 2000823.	5.1	5
24	Bandgap modulation in the two-dimensional core-shell-structured monolayers of WS <sub>2</sub> . <i>IScience</i> , 2022, 25, 103563.	4.1	4
25	Atomic and Electronic Manipulation of Robust Ferroelectric Polymorphs. <i>Advanced Materials</i> , 2022, 34, .	21.0	4
26	Harnessing Thermoelectric Puddles via the Stacking Order and Electronic Screening in Graphene. <i>ACS Nano</i> , 2021, 15, 5397-5404.	14.6	3
27	Near-field probing of dielectric screening by hexagonal boron nitride in graphene integrated on silicon photonics. <i>Nanotechnology</i> , 2021, 32, 315207.	2.6	3
28	Efficient hydrogen evolution reaction at the phase transition boundary of polymorphic Mo <sub>1-x</sub> W <sub>x</sub> Te <sub>2</sub> . <i>APL Materials</i> , 2022, 10, 061107.	5.1	0