

# Heejun Yang

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Bandgap modulation in the two-dimensional core-shell-structured monolayers of WS <sub>2</sub> . IScience, 2022, 25, 103563.   | 4.1  | 4         |
| 2  | Heterophase Boundary for Active Hydrogen Evolution in MoTe <sub>2</sub> . Advanced Functional Materials, 2022, 32, 2105675.   | 14.9 | 21        |
| 3  | Atomic and Electronic Manipulation of Robust Ferroelectric Polymorphs. Advanced Materials, 2022, 34, .  | 21.0 | 4         |
| 4  | Efficient hydrogen evolution reaction at the phase transition boundary of polymorphic Mo <sub>1-x</sub> W <sub>x</sub> Te <sub>2</sub> . APL Materials, 2022, 10, 061107. | 5.1  | 0         |
| 5  | Classical and quantum phases in hexagonal boron nitride combined van der Waals heterostructures. Informa Mater, 2021, 3, 252-270.   | 17.3 | 5         |
| 6  | Lifshitz Transition and Non-Fermi Liquid Behavior in Highly Doped Semimetals. Advanced Materials, 2021, 33, 2005742.  | 21.0 | 5         |
| 7  | Mitrofanovite, Layered Platinum Telluride, for Active Hydrogen Evolution. ACS Applied Materials & Interfaces, 2021, 13, 2437-2446.  | 8.0  | 10        |
| 8  | Harnessing Thermoelectric Puddles via the Stacking Order and Electronic Screening in Graphene. ACS Nano, 2021, 15, 5397-5404.   | 14.6 | 3         |
| 9  | Thermomechanical Manipulation of Electric Transport in MoTe <sub>2</sub> . Advanced Electronic Materials, 2021, 7, 2000823.   | 5.1  | 5         |
| 10 | Near-field probing of dielectric screening by hexagonal boron nitride in graphene integrated on silicon photonics. Nanotechnology, 2021, 32, 315207.                      | 2.6  | 3         |
| 11 | In-sensor reservoir computing for language learning via two-dimensional memristors. Science Advances, 2021, 7, .  | 10.3 | 175       |
| 12 | Active hydrogen evolution on the plasma-treated edges of WTe <sub>2</sub> . APL Materials, 2021, 9, .   | 5.1  | 19        |
| 13 | Large-Area MoS <sub>2</sub> via Colloidal Nanosheet Ink for Integrated Memtransistor. Small Methods, 2021, 5, 2100558.  | 8.6  | 8         |
| 14 | Sizable Suppression of Thermal Hall Effect upon Isotopic Substitution in $\text{SrTiO}_3$ . Physical Review Letters, 2021, 126, 015901.                                   | 7.8  | 11        |
| 15 | Robust Quantum Oscillation of Dirac Fermions in a Single-Defect Resonant Transistor. ACS Nano, 2021, 15, 20013-20019.   | 14.6 | 6         |
| 16 | Role of anionic vacancy for active hydrogen evolution in WTe <sub>2</sub> . Applied Surface Science, 2020, 515, 145972.   | 6.1  | 34        |
| 17 | Symmetry Dictated Grain Boundary State in a Two-Dimensional Topological Insulator. Nano Letters, 2020, 20, 5837-5843.   | 9.1  | 16        |
| 18 | Recent Progress in Synaptic Devices Based on 2D Materials. Advanced Intelligent Systems, 2020, 2, 1900167.  | 6.1  | 55        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Resonant Tunneling Spectroscopy to Probe the Giant Stark Effect in Atomically Thin Materials. <i>Advanced Materials</i> , 2020, 32, e1906942.  | 21.0 | 18        |
| 20 | Hybrid catalyst with monoclinic MoTe <sub>2</sub> and platinum for efficient hydrogen evolution. <i>APL Materials</i> , 2019, 7, .   | 5.1  | 24        |
| 21 | Vertical Heterophase for Electrical, Electrochemical, and Mechanical Manipulations of Layered MoTe <sub>2</sub> . <i>Advanced Functional Materials</i> , 2019, 29, 1904504.                      | 14.9 | 40        |
| 22 | Proximity Engineering of the van der Waals Interaction in Multilayered Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 42528-42533.  | 8.0  | 9         |
| 23 | In Operando Stacking of Reduced Graphene Oxide for Active Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 43460-43465.   | 8.0  | 17        |
| 24 | Coherent Thermoelectric Power from Graphene Quantum Dots. <i>Nano Letters</i> , 2019, 19, 61-68.   | 9.1  | 25        |
| 25 | Selective growth of monolayer semiconductors for diverse synaptic junctions. <i>2D Materials</i> , 2019, 6, 015029.  | 4.4  | 25        |
| 26 | Synaptic Computation Enabled by Joule Heating of Single-Layered Semiconductors for Sound Localization. <i>Nano Letters</i> , 2018, 18, 3229-3234.  | 9.1  | 134       |
| 27 | Tunable Out-of-Plane Piezoelectricity in Thin-Layered MoTe <sub>2</sub> by Surface Corrugation-Mediated Flexoelectricity. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 27424-27431. | 8.0  | 44        |
| 28 | Long-Range Lattice Engineering of MoTe <sub>2</sub> by a 2D Electride. <i>Nano Letters</i> , 2017, 17, 3363-3368.  | 9.1  | 72        |