

# Xiangdong Yang

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

2,625  
citations

331670

21  
h-index

414414

32  
g-index

32  
all docs

32  
docs citations

32  
times ranked

4076  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Ultimate dielectric scaling of 2D transistors via van der Waals metal integration. Nano Research, 2022, 15, 1603-1608.  | 10.4 | 13        |
| 2  | Strain-Plasmonic Coupled Broadband Photodetector Based on Monolayer MoS <sub>2</sub> . Small, 2022, 18, e2107104.   | 10.0 | 25        |
| 3  | Controllable Preparation of 2D Vertical van der Waals Heterostructures and Superlattices for Functional Applications. Small, 2022, 18, e2107059.  | 10.0 | 15        |
| 4  | Endoepitaxial growth of monolayer mosaic heterostructures. Nature Nanotechnology, 2022, 17, 493-499.  | 31.5 | 58        |
| 5  | Synthesis of Group VIII Magnetic Transition-Metal-Doped Monolayer MoSe <sub>2</sub> . ACS Nano, 2022, 16, 10623-10631.  | 14.6 | 18        |
| 6  | In-plane epitaxial growth of 2D CoSe <sub>2</sub> /WSe <sub>2</sub> metal-semiconductor lateral heterostructures with improved WSe <sub>2</sub> transistors performance. Information Materials, 2021, 3, 222-228. | 17.3 | 21        |
| 7  | Highly Selective Synthesis of Monolayer or Bilayer WSe <sub>2</sub> Single Crystals by Pre-annealing the Solid Precursor. Chemistry of Materials, 2021, 33, 1307-1313.  | 6.7  | 20        |
| 8  | High-order superlattices by rolling up van der Waals heterostructures. Nature, 2021, 591, 385-390.  | 27.8 | 163       |
| 9  | Transferred van der Waals metal electrodes for sub-1-nm MoS <sub>2</sub> vertical transistors. Nature Electronics, 2021, 4, 342-347.  | 26.0 | 140       |
| 10 | High-Resolution Van der Waals Stencil Lithography for 2D Transistors. Small, 2021, 17, e2101209.  | 10.0 | 13        |
| 11 | Phase-Selective Synthesis of Ultrathin FeTe Nanoplates by Controllable Fe/Te Atom Ratio in the Growth Atmosphere. Small, 2021, 17, 2101616.   | 10.0 | 13        |
| 12 | Synthesis of Ultrathin 2D Nonlayered MnSe Nanosheets, MnSe/WS <sub>2</sub> Heterojunction for High-Performance Photodetectors. Small Structures, 2021, 2, 2100028.  | 12.0 | 31        |
| 13 | Ultrafast growth of large single crystals of monolayer WS <sub>2</sub> and WSe <sub>2</sub> . National Science Review, 2020, 7, 737-744.  | 9.5  | 64        |
| 14 | Vapor phase growth of two-dimensional PdSe <sub>2</sub> nanosheets for high-photoresponsivity near-infrared photodetectors. Nano Research, 2020, 13, 2091-2097.   | 10.4 | 44        |
| 15 | General synthesis of two-dimensional van der Waals heterostructure arrays. Nature, 2020, 579, 368-374.  | 27.8 | 393       |
| 16 | van der Waals epitaxial growth of ultrathin metallic NiSe nanosheets on WSe <sub>2</sub> as high performance contacts for WSe <sub>2</sub> transistors. Nano Research, 2019, 12, 1683-1689.                       | 10.4 | 31        |
| 17 | Large-area graphene-nanomesh/carbon-nanotube hybrid membranes for ionic and molecular nanofiltration. Science, 2019, 364, 1057-1062.  | 12.6 | 475       |
| 18 | Direct van der Waals epitaxial growth of 1D/2D Sb <sub>2</sub> Se <sub>3</sub> /WS <sub>2</sub> mixed-dimensional p-n heterojunctions. Nano Research, 2019, 12, 1139-1145.  | 10.4 | 63        |

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|----|---|------|-----------|
| 19 | High-performance asymmetric electrodes photodiode based on Sb/WSe <sub>2</sub> heterostructure. Nano Research, 2019, 12, 339-344.   | 10.4 | 32        |
| 20 | Two-Dimensional Flexible Bilayer Janus Membrane for Advanced Photothermal Water Desalination. ACS Energy Letters, 2018, 3, 1165-1171.   | 17.4 | 203       |
| 21 | Peroxidase-Mimicking Nanozyme with Enhanced Activity and High Stability Based on Metal-Support Interactions. Chemistry - A European Journal, 2018, 24, 409-415.                               | 3.3  | 67        |
| 22 | An Ultrathin Flexible 2D Membrane Based on Single-Walled Nanotube-MoS <sub>2</sub> Hybrid Film for High-Performance Solar Steam Generation. Advanced Functional Materials, 2018, 28, 1704505. | 14.9 | 271       |
| 23 | Chemical Vapor Deposition Growth of Single Crystalline CoTe <sub>2</sub> Nanosheets with Tunable Thickness and Electronic Properties. Chemistry of Materials, 2018, 30, 8891-8896.            | 6.7  | 51        |
| 24 | Ultrafine Graphene Nanomesh with Large On/Off Ratio for High-Performance Flexible Biosensors. Advanced Functional Materials, 2017, 27, 1604096.   | 14.9 | 111       |
| 25 | Rational Design of Hierarchical Carbon/Mesoporous Silicon Composite Sponges as High-Performance Flexible Energy Storage Electrodes. ACS Applied Materials & Interfaces, 2017, 9, 22819-22825. | 8.0  | 34        |
| 26 | Recent progress in flexible and wearable bio-electronics based on nanomaterials. Nano Research, 2017, 10, 1560-1583.  | 10.4 | 96        |
| 27 | Lanthanide-Doped Nanoparticles with Near-Infrared-to-Near-Infrared Luminescence for Bioimaging. Chinese Journal of Chemistry, 2016, 34, 558-569.  | 4.9  | 13        |
| 28 | Applications of DNA Nanotechnology in Synthesis and Assembly of Inorganic Nanomaterials. Chinese Journal of Chemistry, 2016, 34, 291-298.   | 4.9  | 20        |
| 29 | Perovskite-Type LaSrMnO Electrode with Uniform Porous Structure for an Efficient Li-O <sub>2</sub> Battery Cathode. ACS Nano, 2016, 10, 1240-1248.  | 14.6 | 98        |
| 30 | High-Performance Electrochemical Catalysts Based on Three-Dimensional Porous Architecture with Conductive Interconnected Networks. ACS Applied Materials & Interfaces, 2016, 8, 28265-28273.  | 8.0  | 22        |
| 31 | Blown Bubble Assembly of Graphene Oxide Patches for Transparent Electrodes in Carbon-Silicon Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 28330-28336.                           | 8.0  | 5         |