

Zhiyan Jia

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Observation of Strong Interlayer Coupling in MoS ₂ /WS ₂ Heterostructures. <i>Advanced Materials</i> , 2016, 28, 1950-1956. | 11.1 | 225 |
| 2 | Enhanced Photoresponse of SnSe-Nanocrystals-Decorated WS ₂ Monolayer Phototransistor. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4781-4788. | 4.0 | 91 |
| 3 | Electric-Field Control of Spin-Orbit Torques in WS ₂ /Permalloy Bilayers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2843-2849. | 4.0 | 54 |
| 4 | Grain-boundary-rich polycrystalline monolayer WS ₂ film for attomolar-level Hg ²⁺ sensors. <i>Nature Communications</i> , 2021, 12, 3870. | 5.8 | 42 |
| 5 | Highly sensitive and fast monolayer WS ₂ phototransistors realized by SnS nanosheet decoration. <i>Nanoscale</i> , 2017, 9, 1916-1924. | 2.8 | 39 |
| 6 | Chemical Vapor Synthesized WS ₂ -Embedded Polystyrene-derived Porous Carbon as Superior Long-term Cycling Life Anode Material for Li-ion Batteries. <i>Electrochimica Acta</i> , 2015, 153, 49-54. | 2.6 | 33 |
| 7 | Ultrahigh-Gain and Fast Photodetectors Built on Atomically Thin Bilayer Tungsten Disulfide Grown by Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42001-42010. | 4.0 | 26 |
| 8 | Photoluminescence and Raman Spectra Oscillations Induced by Laser Interference in Annealing-Created Monolayer WS ₂ Bubbles. <i>Advanced Optical Materials</i> , 2019, 7, 1801373. | 3.6 | 21 |
| 9 | Strain Release Induced Novel Fluorescence Variation in CVD-Grown Monolayer WS ₂ Crystals. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34071-34077. | 4.0 | 17 |
| 10 | Strong and tunable interlayer coupling of infrared-active phonons to excitons in van der Waals heterostructures. <i>Physical Review B</i> , 2019, 99, . | 1.1 | 17 |
| 11 | Giant Valley Coherence at Room Temperature in 3R WS ₂ with Broken Inversion Symmetry. <i>Research</i> , 2019, 2019, 6494565. | 2.8 | 17 |
| 12 | Improved photoresponse and stable photoswitching of tungsten disulfide single-layer phototransistor decorated with black phosphorus nanosheets. <i>Journal of Materials Science</i> , 2017, 52, 11506-11512. | 1.7 | 15 |
| 13 | Morphology-Tunable Synthesis of Intrinsic Room-Temperature Ferromagnetic Γ^3 -Fe ₂ O ₃ Nanoflakes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24051-24061. | 4.0 | 15 |
| 14 | Grain wall boundaries in centimeter-scale continuous monolayer WS ₂ film grown by chemical vapor deposition. <i>Nanotechnology</i> , 2018, 29, 255705. | 1.3 | 14 |
| 15 | One-step growth of wafer-scale monolayer tungsten disulfide via hydrogen sulfide assisted chemical vapor deposition. <i>Applied Physics Letters</i> , 2019, 115, . | 1.5 | 13 |
| 16 | Photodetection application of one-step synthesized wafer-scale monolayer MoS ₂ by chemical vapor deposition. <i>2D Materials</i> , 2020, 7, 025020. | 2.0 | 13 |
| 17 | High-sensitivity and versatile plasmonic biosensor based on grain boundaries in polycrystalline 1L WS ₂ films. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113596. | 5.3 | 13 |
| 18 | Electronic structure-dependent magneto-optical Raman effect in atomically thin WS ₂ . <i>2D Materials</i> , 2018, 5, 035028. | 2.0 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Robust circular polarization of indirect Q-K transitions in bilayer W_3S_2 . <i>Physical Review B</i> , 2019, 100, . | 1.1 | 11 |
| 20 | Ultrasensitive biochemical sensors based on controllably grown films of high-density edge-rich multilayer WS ₂ islands. <i>Sensors and Actuators B: Chemical</i> , 2022, 353, 131081. | 4.0 | 5 |
| 21 | Peculiar spectra and photocurrent oscillation caused by laser interference in WX ₂ (X = S, Se) bubbles. <i>Journal of Materials Science</i> , 2020, 55, 15857-15866. | 1.7 | 4 |
| 22 | Photoemission oscillation in epitaxially grown van der Waals $\text{In}_2\text{Se}_3\text{WS}_2$ heterobilayer bubbles*. <i>Chinese Physics B</i> , 2021, 30, 117901. | 0.7 | 0 |