

Yuanxi Wang

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

2,258
citations

304743

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docs citations

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times ranked

4544
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Momentum-Space Spin Antivortex and Spin Transport in Monolayer Pb. <i>Physical Review Letters</i> , 2022, 128, 166601. | 7.8 | 6 |
| 2 | Photoluminescence Induced by Substitutional Nitrogen in Single-Layer Tungsten Disulfide. <i>ACS Nano</i> , 2022, 16, 7428-7437. | 14.6 | 7 |
| 3 | SnP ₂ S ₆ : A Promising Infrared Nonlinear Optical Crystal with Strong Nonresonant Second Harmonic Generation and Phase-Matchability. <i>ACS Photonics</i> , 2022, 9, 1724-1732. | 6.6 | 11 |
| 4 | Enhanced Emission from Defect Levels in Multilayer MoS ₂ . <i>Advanced Optical Materials</i> , 2022, 10, . | 7.3 | 9 |
| 5 | Illuminating Invisible Grain Boundaries in Coalesced Single-Orientation WS ₂ Monolayer Films. <i>Nano Letters</i> , 2021, 21, 6487-6495. | 9.1 | 26 |
| 6 | A ReaxFF Force Field for 2D-WS ₂ and Its Interaction with Sapphire. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17950-17961. | 3.1 | 10 |
| 7 | Theoretical modeling of edge-controlled growth kinetics and structural engineering of 2D-MoSe ₂ . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 271, 115263. | 3.5 | 11 |
| 8 | Nonlinear Dark-Field Imaging of One-Dimensional Defects in Monolayer Dichalcogenides. <i>Nano Letters</i> , 2020, 20, 284-291. | 9.1 | 34 |
| 9 | Unexpected Near-Infrared to Visible Nonlinear Optical Properties from 2-D Polar Metals. <i>Nano Letters</i> , 2020, 20, 8312-8318. | 9.1 | 22 |
| 10 | Monolayer Vanadium-Doped Tungsten Disulfide: A Room-Temperature Dilute Magnetic Semiconductor. <i>Advanced Science</i> , 2020, 7, 2001174. | 11.2 | 104 |
| 11 | Tuning Transport and Chemical Sensitivity via Niobium Doping of Synthetic MoS ₂ . <i>Advanced Materials Interfaces</i> , 2020, 7, 2000856. | 3.7 | 19 |
| 12 | Modeling for Structural Engineering and Synthesis of Two-Dimensional WSe ₂ Using a Newly Developed ReaxFF Reactive Force Field. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28285-28297. | 3.1 | 20 |
| 13 | Tuning transport across MoS ₂ /graphene interfaces via as-grown lateral heterostructures. <i>Npj 2D Materials and Applications</i> , 2020, 4, . | 7.9 | 12 |
| 14 | Multiscale computational understanding and growth of 2D materials: a review. <i>Npj Computational Materials</i> , 2020, 6, . | 8.7 | 89 |
| 15 | Atomically thin half-van der Waals metals enabled by confinement heteroepitaxy. <i>Nature Materials</i> , 2020, 19, 637-643. | 27.5 | 114 |
| 16 | Interface-mediated noble metal deposition on transition metal dichalcogenide nanostructures. <i>Nature Chemistry</i> , 2020, 12, 284-293. | 13.6 | 73 |
| 17 | Geometry and chiral symmetry breaking of ripple junctions in 2D materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 131, 337-343. | 4.8 | 6 |
| 18 | Dynamics of cleaning, passivating and doping monolayer MoS ₂ by controlled laser irradiation. <i>2D Materials</i> , 2019, 6, 045031. | 4.4 | 40 |

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|----|--|------|-----------|
| 19 | Multi-scale modeling of gas-phase reactions in metal-organic chemical vapor deposition growth of WSe ₂ . Journal of Crystal Growth, 2019, 527, 125247. | 1.5 | 59 |
| 20 | Full orientation control of epitaxial MoS_2 on hBN assisted by substrate defects. Physical Review B, 2019, 99, . | 13.7 | 137 |
| 21 | Defect-Controlled Nucleation and Orientation of WSe ₂ on hBN: A Route to Single-Crystal Epitaxial Monolayers. ACS Nano, 2019, 13, 3341-3352. | 14.6 | 107 |
| 22 | Probing the origin of lateral heterogeneities in synthetic monolayer molybdenum disulfide. 2D Materials, 2019, 6, 025008. | 4.4 | 6 |
| 23 | Controllable Edge Exposure of MoS ₂ for Efficient Hydrogen Evolution with High Current Density. ACS Applied Energy Materials, 2018, 1, 1268-1275. | 5.1 | 44 |
| 24 | Strong exciton regulation of Raman scattering in monolayer MoS_2 . Physical Review B, 2018, 98, . | 13.7 | 137 |
| 25 | Research Update: Recent progress on 2D materials beyond graphene: From ripples, defects, intercalation, and valley dynamics to straintronics and power dissipation. APL Materials, 2018, 6, . | 5.1 | 30 |
| 26 | ReaxFF Reactive Force-Field Study of Molybdenum Disulfide (MoS ₂). Journal of Physical Chemistry Letters, 2017, 8, 631-640. | 4.6 | 126 |
| 27 | Intervalley scattering by acoustic phonons in two-dimensional MoS ₂ revealed by double-resonance Raman spectroscopy. Nature Communications, 2017, 8, 14670. | 12.8 | 196 |
| 28 | Optical identification of sulfur vacancies: Bound excitons at the edges of monolayer tungsten disulfide. Science Advances, 2017, 3, e1602813. | 10.3 | 213 |
| 29 | Defect Coupling and Sub-Angstrom Structural Distortions in W _{1-x} Mo _x S ₂ Monolayers. Nano Letters, 2017, 17, 2802-2808. | 9.1 | 42 |
| 30 | NanoVelcro: Theory of Guided Folding in Atomically Thin Sheets with Regions of Complementary Doping. Nano Letters, 2017, 17, 6708-6714. | 9.1 | 8 |
| 31 | Intricate Resonant Raman Response in Anisotropic ReS ₂ . Nano Letters, 2017, 17, 5897-5907. | 9.1 | 66 |
| 32 | Theory of Finite-Length Grain Boundaries of Controlled Misfit Angle in Two-Dimensional Materials. Nano Letters, 2017, 17, 5297-5303. | 9.1 | 20 |
| 33 | Observation of a Quasi-ordered Structure in Monolayer W _x Mo _(1-x) S ₂ Alloys. Microscopy and Microanalysis, 2016, 22, 1548-1549. | 0.4 | 1 |
| 34 | Low-temperature Solution Synthesis of Few-layer 1T _x MoTe ₂ Nanostructures Exhibiting Lattice Compression. Angewandte Chemie - International Edition, 2016, 55, 2830-2834. | 13.8 | 84 |
| 35 | Spontaneous Formation of Atomically Thin Stripes in Transition Metal Dichalcogenide Monolayers. Nano Letters, 2016, 16, 6982-6987. | 9.1 | 48 |
| 36 | Low-temperature Solution Synthesis of Few-layer 1T _x MoTe ₂ Nanostructures Exhibiting Lattice Compression. Angewandte Chemie, 2016, 128, 2880-2884. | 2.0 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Non-oxidative intercalation and exfoliation of graphite by Brønsted acids. <i>Nature Chemistry</i> , 2014, 6, 957-963. | 13.6 | 175 |
| 38 | Extraordinary Second Harmonic Generation in Tungsten Disulfide Monolayers. <i>Scientific Reports</i> , 2014, 4, 5530. | 3.3 | 262 |
| 39 | Reversible Intercalation of Hexagonal Boron Nitride with Brønsted Acids. <i>Journal of the American Chemical Society</i> , 2013, 135, 8372-8381. | 13.7 | 88 |