

# Yuanxi Wang

## List of Publications by Year in descending order

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39  
papers

2,258  
citations

304743

22  
h-index

302126

39  
g-index

40  
all docs

40  
docs citations

40  
times ranked

4544  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extraordinary Second Harmonic Generation in Tungsten Disulfide Monolayers. <i>Scientific Reports</i> , 2014, 4, 5530.	3.3	262
2	Optical identification of sulfur vacancies: Bound excitons at the edges of monolayer tungsten disulfide. <i>Science Advances</i> , 2017, 3, e1602813.	10.3	213
3	Intervalley scattering by acoustic phonons in two-dimensional MoS <sub>2</sub> revealed by double-resonance Raman spectroscopy. <i>Nature Communications</i> , 2017, 8, 14670.	12.8	196
4	Non-oxidative intercalation and exfoliation of graphite by Brønsted acids. <i>Nature Chemistry</i> , 2014, 6, 957-963.	13.6	175
5	ReaxFF Reactive Force-Field Study of Molybdenum Disulfide (MoS <sub>2</sub> ). <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 631-640.	4.6	126
6	Atomically thin half-van der Waals metals enabled by confinement heteroepitaxy. <i>Nature Materials</i> , 2020, 19, 637-643.	27.5	114
7	Defect-Controlled Nucleation and Orientation of WSe <sub>2</sub> on hBN: A Route to Single-Crystal Epitaxial Monolayers. <i>ACS Nano</i> , 2019, 13, 3341-3352.	14.6	107
8	Monolayer Vanadium-Doped Tungsten Disulfide: A Room-Temperature Dilute Magnetic Semiconductor. <i>Advanced Science</i> , 2020, 7, 2001174.	11.2	104
9	Multiscale computational understanding and growth of 2D materials: a review. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	89
10	Reversible Intercalation of Hexagonal Boron Nitride with Brønsted Acids. <i>Journal of the American Chemical Society</i> , 2013, 135, 8372-8381.	13.7	88
11	Low-Temperature Solution Synthesis of Few-Layer 1T <sub>2</sub> MoTe <sub>2</sub> Nanostructures Exhibiting Lattice Compression. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2830-2834.	13.8	84
12	Interface-mediated noble metal deposition on transition metal dichalcogenide nanostructures. <i>Nature Chemistry</i> , 2020, 12, 284-293.	13.6	73
13	Intricate Resonant Raman Response in Anisotropic ReS <sub>2</sub> . <i>Nano Letters</i> , 2017, 17, 5897-5907.	9.1	66
14	Multi-scale modeling of gas-phase reactions in metal-organic chemical vapor deposition growth of WSe <sub>2</sub> . <i>Journal of Crystal Growth</i> , 2019, 527, 125247.	1.5	59
15	Spontaneous Formation of Atomically Thin Stripes in Transition Metal Dichalcogenide Monolayers. <i>Nano Letters</i> , 2016, 16, 6982-6987.	9.1	48
16	Controllable Edge Exposure of MoS <sub>2</sub> for Efficient Hydrogen Evolution with High Current Density. <i>ACS Applied Energy Materials</i> , 2018, 1, 1268-1275.	5.1	44
17	Defect Coupling and Sub-Angstrom Structural Distortions in W <sub>1-x</sub> Mo <sub>x</sub> S <sub>2</sub> Monolayers. <i>Nano Letters</i> , 2017, 17, 2802-2808.	9.1	42
18	Dynamics of cleaning, passivating and doping monolayer MoS <sub>2</sub> by controlled laser irradiation. <i>2D Materials</i> , 2019, 6, 045031.	4.4	40

#	ARTICLE	IF	CITATIONS
19	Full orientation control of epitaxial $\text{MoS}_2$ on hBN assisted by substrate defects. <i>Physical Review B</i> , 2019, 99, .		
20	Nonlinear Dark-Field Imaging of One-Dimensional Defects in Monolayer Dichalcogenides. <i>Nano Letters</i> , 2020, 20, 284-291.	9.1	34
21	Research Update: Recent progress on 2D materials beyond graphene: From ripples, defects, intercalation, and valley dynamics to straintronics and power dissipation. <i>APL Materials</i> , 2018, 6, .	5.1	30
22	Illuminating Invisible Grain Boundaries in Coalesced Single-Orientation $\text{WS}_2$ Monolayer Films. <i>Nano Letters</i> , 2021, 21, 6487-6495.	9.1	26
23	Low-Temperature Solution Synthesis of Few-Layer $1\text{T}'\text{MoTe}_2$ Nanostructures Exhibiting Lattice Compression. <i>Angewandte Chemie</i> , 2016, 128, 2880-2884.	2.0	22
24	Unexpected Near-Infrared to Visible Nonlinear Optical Properties from 2-D Polar Metals. <i>Nano Letters</i> , 2020, 20, 8312-8318.	9.1	22
25	Theory of Finite-Length Grain Boundaries of Controlled Misfit Angle in Two-Dimensional Materials. <i>Nano Letters</i> , 2017, 17, 5297-5303.	9.1	20
26	Modeling for Structural Engineering and Synthesis of Two-Dimensional $\text{WSe}_2$ Using a Newly Developed ReaxFF Reactive Force Field. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28285-28297.	3.1	20
27	Tuning Transport and Chemical Sensitivity via Niobium Doping of Synthetic $\text{MoS}_2$ . <i>Advanced Materials Interfaces</i> , 2020, 7, 2000856.	3.7	19
28	Tuning transport across $\text{MoS}_2$ /graphene interfaces via as-grown lateral heterostructures. <i>Npj 2D Materials and Applications</i> , 2020, 4, .	7.9	12
29	Strong exciton regulation of Raman scattering in monolayer $\text{MoS}_2$ . <i>Physical Review B</i> , 2018, 98, .		
30	Theoretical modeling of edge-controlled growth kinetics and structural engineering of 2D-MoSe <sub>2</sub> . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 271, 115263.	3.5	11
31	$\text{SnP}_2\text{S}_6$ : 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
32	A ReaxFF Force Field for 2D- $\text{WS}_2$ and Its Interaction with Sapphire. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17950-17961.	3.1	10
33	Enhanced Emission from Defect Levels in Multilayer $\text{MoS}_2$ . <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	9
34	NanoVelcro: Theory of Guided Folding in Atomically Thin Sheets with Regions of Complementary Doping. <i>Nano Letters</i> , 2017, 17, 6708-6714.	9.1	8
35	Photoluminescence Induced by Substitutional Nitrogen in Single-Layer Tungsten Disulfide. <i>ACS Nano</i> , 2022, 16, 7428-7437.	14.6	7
36	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

#	ARTICLE	IF	CITATIONS
37	Probing the origin of lateral heterogeneities in synthetic monolayer molybdenum disulfide. 2D Materials, 2019, 6, 025008.	4.4	6
38	Momentum-Space Spin Antivortex and Spin Transport in Monolayer Pb. Physical Review Letters, 2022, 128, 166601.	7.8	6
39	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