

Yuanxi Wang

List of Publications by Year in descending order

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39
papers

2,258
citations

346980

22
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340414

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docs citations

40
times ranked

5392
citing authors

#	ARTICLE	IF	CITATIONS
1	Momentum-Space Spin Antivortex and Spin Transport in Monolayer Pb. <i>Physical Review Letters</i> , 2022, 128, 166601.	2.9	6
2	Photoluminescence Induced by Substitutional Nitrogen in Single-Layer Tungsten Disulfide. <i>ACS Nano</i> , 2022, 16, 7428-7437.	7.3	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.	3.2	11
4	Enhanced Emission from Defect Levels in Multilayer MoS ₂ . <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	9
5	Illuminating Invisible Grain Boundaries in Coalesced Single-Orientation WS ₂ Monolayer Films. <i>Nano Letters</i> , 2021, 21, 6487-6495.	4.5	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.	1.5	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.	1.7	11
8	Nonlinear Dark-Field Imaging of One-Dimensional Defects in Monolayer Dichalcogenides. <i>Nano Letters</i> , 2020, 20, 284-291.	4.5	34
9	Unexpected Near-Infrared to Visible Nonlinear Optical Properties from 2-D Polar Metals. <i>Nano Letters</i> , 2020, 20, 8312-8318.	4.5	22
10	Monolayer Vanadium-Doped Tungsten Disulfide: A Room-Temperature Dilute Magnetic Semiconductor. <i>Advanced Science</i> , 2020, 7, 2001174.	5.6	104
11	Tuning Transport and Chemical Sensitivity via Niobium Doping of Synthetic MoS ₂ . <i>Advanced Materials Interfaces</i> , 2020, 7, 2000856.	1.9	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.	1.5	20
13	Tuning transport across MoS ₂ /graphene interfaces via as-grown lateral heterostructures. <i>Npj 2D Materials and Applications</i> , 2020, 4, .	3.9	12
14	Multiscale computational understanding and growth of 2D materials: a review. <i>Npj Computational Materials</i> , 2020, 6, .	3.5	89
15	Atomically thin half-van der Waals metals enabled by confinement heteroepitaxy. <i>Nature Materials</i> , 2020, 19, 637-643.	13.3	114
16	Interface-mediated noble metal deposition on transition metal dichalcogenide nanostructures. <i>Nature Chemistry</i> , 2020, 12, 284-293.	6.6	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.	2.3	6
18	Dynamics of cleaning, passivating and doping monolayer MoS ₂ by controlled laser irradiation. <i>2D Materials</i> , 2019, 6, 045031.	2.0	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.	0.7	59
20	Full orientation control of epitaxial MoS_2 on hBN assisted by substrate defects. Physical Review B, 2019, 99, .	1.1	13
21	Defect-Controlled Nucleation and Orientation of WSe ₂ on hBN: A Route to Single-Crystal Epitaxial Monolayers. ACS Nano, 2019, 13, 3341-3352.	7.3	107
22	Probing the origin of lateral heterogeneities in synthetic monolayer molybdenum disulfide. 2D Materials, 2019, 6, 025008.	2.0	6
23	Controllable Edge Exposure of MoS ₂ for Efficient Hydrogen Evolution with High Current Density. ACS Applied Energy Materials, 2018, 1, 1268-1275.	2.5	44
24	Strong exciton regulation of Raman scattering in monolayer MoS_2 . Physical Review B, 2018, 98, .	1.1	13
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, .	2.2	30
26	ReaxFF Reactive Force-Field Study of Molybdenum Disulfide (MoS ₂). Journal of Physical Chemistry Letters, 2017, 8, 631-640.	2.1	126
27	Intervalley scattering by acoustic phonons in two-dimensional MoS ₂ revealed by double-resonance Raman spectroscopy. Nature Communications, 2017, 8, 14670.	5.8	196
28	Optical identification of sulfur vacancies: Bound excitons at the edges of monolayer tungsten disulfide. Science Advances, 2017, 3, e1602813.	4.7	213
29	Defect Coupling and Sub-Angstrom Structural Distortions in W _{1-x} Mo _x S ₂ Monolayers. Nano Letters, 2017, 17, 2802-2808.	4.5	42
30	NanoVelcro: Theory of Guided Folding in Atomically Thin Sheets with Regions of Complementary Doping. Nano Letters, 2017, 17, 6708-6714.	4.5	8
31	Intricate Resonant Raman Response in Anisotropic ReS ₂ . Nano Letters, 2017, 17, 5897-5907.	4.5	66
32	Theory of Finite-Length Grain Boundaries of Controlled Misfit Angle in Two-Dimensional Materials. Nano Letters, 2017, 17, 5297-5303.	4.5	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.	0.2	1
34	Low-temperature Solution Synthesis of Few-layer 1T _{â€²} MoTe ₂ Nanostructures Exhibiting Lattice Compression. Angewandte Chemie - International Edition, 2016, 55, 2830-2834.	7.2	84
35	Spontaneous Formation of Atomically Thin Stripes in Transition Metal Dichalcogenide Monolayers. Nano Letters, 2016, 16, 6982-6987.	4.5	48
36	Low-temperature Solution Synthesis of Few-layer 1T _{â€²} MoTe ₂ Nanostructures Exhibiting Lattice Compression. Angewandte Chemie, 2016, 128, 2880-2884.	1.6	22

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37	Non-oxidative intercalation and exfoliation of graphite by Brønsted acids. <i>Nature Chemistry</i> , 2014, 6, 957-963.	6.6	175
38	Extraordinary Second Harmonic Generation in Tungsten Disulfide Monolayers. <i>Scientific Reports</i> , 2014, 4, 5530.	1.6	262
39	Reversible Intercalation of Hexagonal Boron Nitride with Brønsted Acids. <i>Journal of the American Chemical Society</i> , 2013, 135, 8372-8381.	6.6	88