

Shanshan Wang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Structural Evolution of Atomically Thin $1T\text{-}W\text{-}Te_2$ Alloyed in Chalcogen Atmosphere. Small Structures, 2022, 3, .	6.9	6
2	Growth mechanism and atomic structure of group-IIA compound-promoted CVD-synthesized monolayer transition metal dichalcogenides. Nanoscale, 2021, 13, 13030-13041.	2.8	7
3	Probing Atomic-Scale Fracture of Grain Boundaries in Low-Symmetry 2D Materials. Small, 2021, 17, e2102739.	5.2	7
4	Programing Two-Dimensional Materials in Non-Euclidean Spaces. Chem, 2020, 6, 829-831.	5.8	1
5	Atomic-Scale Studies of Overlapping Grain Boundaries between Parallel and Quasi-Parallel Grains in Low-Symmetry Monolayer ReS_2 . Matter, 2020, 3, 2108-2123.	5.0	11
6	Strong Band Bowing Effects and Distinctive Optoelectronic Properties of 2H and $1T\text{-}W_2$ Phase-Tunable $Mo_xRe_{1-x}S_2$ Alloys. Advanced Functional Materials, 2020, 30, 2003264.	7.8	39
7	Electric-Field-Assisted Growth of Vertical Graphene Arrays and the Application in Thermal Interface Materials. Advanced Functional Materials, 2020, 30, 2003302.	7.8	95
8	Growth of Large-Area Homogeneous Monolayer Transition-Metal Disulfides via a Molten Liquid Intermediate Process. ACS Applied Materials & Interfaces, 2020, 12, 13174-13181.	4.0	46
9	Shape-Engineered Synthesis of Atomically Thin $1T\text{-}SnS_2$ Catalyzed by Potassium Halides. ACS Nano, 2019, 13, 8265-8274.	7.3	51
10	Anisotropic Fracture Dynamics Due to Local Lattice Distortions. ACS Nano, 2019, 13, 5693-5702.	7.3	19
11	Synthesis and Transport Properties of Degenerate P-Type Nb-Doped WS_2 Monolayers. Chemistry of Materials, 2019, 31, 3534-3541.	3.2	71
12	Nanochannel Diffusion-Controlled Nitridation of Polycarbosilanes for Diversified SiCN Fibers with Interfacial Gradient- $SiCN_x$ Phase and Enhanced High-Temperature Stability. ACS Applied Materials & Interfaces, 2019, 11, 12993-13002.	4.0	8
13	Large Dendritic Monolayer MoS_2 Grown by Atmospheric Pressure Chemical Vapor Deposition for Electrocatalysis. ACS Applied Materials & Interfaces, 2018, 10, 4630-4639.	4.0	88
14	Interlocking Friction Governs the Mechanical Fracture of Bilayer MoS_2 . ACS Nano, 2018, 12, 3600-3608.	7.3	40
15	Ultrafast Carrier Transfer Promoted by Interlayer Coulomb Coupling in 2D/3D Perovskite Heterostructures. Laser and Photonics Reviews, 2018, 12, 1800128.	4.4	59
16	Atomically sharp interlayer stacking shifts at anti-phase grain boundaries in overlapping MoS_2 secondary layers. Nanoscale, 2018, 10, 16692-16702.	2.8	22
17	High-Temperature Corrosion Behavior of SiBCN Fibers for Aerospace Applications. ACS Applied Materials & Interfaces, 2018, 10, 19712-19720.	4.0	50
18	Preferential Pt Nanocluster Seeding at Grain Boundary Dislocations in Polycrystalline Monolayer MoS_2 . ACS Nano, 2018, 12, 5626-5636.	7.3	27

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19	Atomic structure of defects and dopants in 2D layered transition metal dichalcogenides. Chemical Society Reviews, 2018, 47, 6764-6794.	18.7	178
20	Oligomeric aminoborane precursors for the chemical vapour deposition growth of few-layer hexagonal boron nitride. CrystEngComm, 2017, 19, 285-294.	1.3	41
21	Atomic Structure and Dynamics of Single Platinum Atom Interactions with Monolayer MoS ₂ . ACS Nano, 2017, 11, 3392-3403.	7.3	126
22	Atomic structure and formation mechanism of sub-nanometer pores in 2D monolayer MoS ₂ . Nanoscale, 2017, 9, 6417-6426.	2.8	54
23	Epitaxial Templating of Two-Dimensional Metal Chloride Nanocrystals on Monolayer Molybdenum Disulfide. ACS Nano, 2017, 11, 6404-6415.	7.3	20
24	Edge-Enriched 2D MoS ₂ Thin Films Grown by Chemical Vapor Deposition for Enhanced Catalytic Performance. ACS Catalysis, 2017, 7, 877-886.	5.5	123
25	Orientation dependent interlayer stacking structure in bilayer MoS ₂ domains. Nanoscale, 2017, 9, 13060-13068.	2.8	19
26	Growth of Large Single-Crystalline Monolayer Hexagonal Boron Nitride by Oxide-Assisted Chemical Vapor Deposition. Chemistry of Materials, 2017, 29, 6252-6260.	3.2	60
27	Atomically Flat Zigzag Edges in Monolayer MoS ₂ by Thermal Annealing. Nano Letters, 2017, 17, 5502-5507.	4.5	70
28	<i>In Situ</i> Atomic-Scale Studies of the Formation of Epitaxial Pt Nanocrystals on Monolayer Molybdenum Disulfide. ACS Nano, 2017, 11, 9057-9067.	7.3	27
29	Atomic Structure and Dynamics of Defects in 2D MoS ₂ Bilayers. ACS Omega, 2017, 2, 3315-3324.	1.6	32
30	Detailed Atomic Reconstruction of Extended Line Defects in Monolayer MoS ₂ . ACS Nano, 2016, 10, 5419-5430.	7.3	161
31	Atomically Sharp Crack Tips in Monolayer MoS ₂ and Their Enhanced Toughness by Vacancy Defects. ACS Nano, 2016, 10, 9831-9839.	7.3	130
32	Atomic Structure and Spectroscopy of Single Metal (Cr, V) Substitutional Dopants in Monolayer MoS ₂ . ACS Nano, 2016, 10, 10227-10236.	7.3	96
33	Substrate control for large area continuous films of monolayer MoS ₂ by atmospheric pressure chemical vapor deposition. Nanotechnology, 2016, 27, 085604.	1.3	69
34	Torsional Deformations in Subnanometer MoS Interconnecting Wires. Nano Letters, 2016, 16, 1210-1217.	4.5	30
35	All Chemical Vapor Deposition Growth of MoS ₂ :h-BN Vertical van der Waals Heterostructures. ACS Nano, 2015, 9, 5246-5254.	7.3	326
36	Shape Evolution of Monolayer MoS ₂ Crystals Grown by Chemical Vapor Deposition. Chemistry of Materials, 2014, 26, 6371-6379.	3.2	698

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37	Controlling sulphur precursor addition for large single crystal domains of WS ₂ . Nanoscale, 2014, 6, 12096-12103.	2.8	149