Shanshan Wang

List of Publications by Year
in descending order

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37 papers	3,056 citations	218592 26 h-index	330025 37 g-index
37 all docs	37 docs citations	37 times ranked	5127 citing authors

#	Article	IF	Citations
1	Shape Evolution of Monolayer MoS₂ Crystals Grown by Chemical Vapor Deposition. Chemistry of Materials, 2014, 26, 6371-6379.	3.2	698
2	All Chemical Vapor Deposition Growth of MoS₂:h-BN Vertical van der Waals Heterostructures. ACS Nano, 2015, 9, 5246-5254.	7.3	326
3	Atomic structure of defects and dopants in 2D layered transition metal dichalcogenides. Chemical Society Reviews, 2018, 47, 6764-6794.	18.7	178
4	Detailed Atomic Reconstruction of Extended Line Defects in Monolayer MoS₂. ACS Nano, 2016, 10, 5419-5430.	7.3	161
5	Controlling sulphur precursor addition for large single crystal domains of WS₂. Nanoscale, 2014, 6, 12096-12103.	2.8	149
6	Atomically Sharp Crack Tips in Monolayer MoS₂ and Their Enhanced Toughness by Vacancy Defects. ACS Nano, 2016, 10, 9831-9839.	7.3	130
7	Atomic Structure and Dynamics of Single Platinum Atom Interactions with Monolayer MoS₂. ACS Nano, 2017, 11, 3392-3403.	7.3	126
8	Edge-Enriched 2D MoS₂ Thin Films Grown by Chemical Vapor Deposition for Enhanced Catalytic Performance. ACS Catalysis, 2017, 7, 877-886.	5.5	123
9	Atomic Structure and Spectroscopy of Single Metal (Cr, V) Substitutional Dopants in Monolayer MoS₂. ACS Nano, 2016, 10, 10227-10236.	7.3	96
10	Electricâ€Fieldâ€Assisted Growth of Vertical Graphene Arrays and the Application in Thermal Interface Materials. Advanced Functional Materials, 2020, 30, 2003302.	7.8	95
11	Large Dendritic Monolayer MoS₂ Grown by Atmospheric Pressure Chemical Vapor Deposition for Electrocatalysis. ACS Applied Materials & Interfaces, 2018, 10, 4630-4639.	4.0	88
12	Synthesis and Transport Properties of Degenerate P-Type Nb-Doped WS₂ Monolayers. Chemistry of Materials, 2019, 31, 3534-3541.	3.2	71
13	Atomically Flat Zigzag Edges in Monolayer MoS₂ by Thermal Annealing. Nano Letters, 2017, 17, 5502-5507.	4.5	70
14	Substrate control for large area continuous films of monolayer MoS₂by atmospheric pressure chemical vapor deposition. Nanotechnology, 2016, 27, 085604.	1.3	69
15	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
16	Ultrafast Carrier Transfer Promoted by Interlayer Coulomb Coupling in 2D/3D Perovskite Heterostructures. Laser and Photonics Reviews, 2018, 12, 1800128.	4.4	59
17	Atomic structure and formation mechanism of sub-nanometer pores in 2D monolayer MoS₂. Nanoscale, 2017, 9, 6417-6426.	2.8	54
18	Shape-Engineered Synthesis of Atomically Thin 1T-SnS₂ Catalyzed by Potassium Halides. ACS Nano, 2019, 13, 8265-8274.	7.3	51

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19	High-Temperature Corrosion Behavior of SiBCN Fibers for Aerospace Applications. ACS Applied Materials & Interfaces, 2018, 10, 19712-19720.	4.0	50
20	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
21	Oligomeric aminoborane precursors for the chemical vapour deposition growth of few-layer hexagonal boron nitride. CrystEngComm, 2017, 19, 285-294.	1.3	41
22	Interlocking Friction Governs the Mechanical Fracture of Bilayer MoS₂. ACS Nano, 2018, 12, 3600-3608.	7.3	40
23	Strong Band Bowing Effects and Distinctive Optoelectronic Properties of 2H and 1Tâ€² Phaseâ€Tunable Mo_xRe_{1â€“}_xS₂ Alloys. Advanced Functional Materials, 2020, 30, 2003264.	7.8	39
24	Atomic Structure and Dynamics of Defects in 2D MoS₂ Bilayers. ACS Omega, 2017, 2, 3315-3324.	1.6	32
25	Torsional Deformations in Subnanometer MoS Interconnecting Wires. Nano Letters, 2016, 16, 1210-1217.	4.5	30
26	In Situ Atomic-Scale Studies of the Formation of Epitaxial Pt Nanocrystals on Monolayer Molybdenum Disulfide. ACS Nano, 2017, 11, 9057-9067.	7.3	27
27	Preferential Pt Nanocluster Seeding at Grain Boundary Dislocations in Polycrystalline Monolayer MoS₂. ACS Nano, 2018, 12, 5626-5636.	7.3	27
28	Atomically sharp interlayer stacking shifts at anti-phase grain boundaries in overlapping MoS₂ secondary layers. Nanoscale, 2018, 10, 16692-16702.	2.8	22
29	Epitaxial Templating of Two-Dimensional Metal Chloride Nanocrystals on Monolayer Molybdenum Disulfide. ACS Nano, 2017, 11, 6404-6415.	7.3	20
30	Orientation dependent interlayer stacking structure in bilayer MoS₂domains. Nanoscale, 2017, 9, 13060-13068.	2.8	19
31	Anisotropic Fracture Dynamics Due to Local Lattice Distortions. ACS Nano, 2019, 13, 5693-5702.	7.3	19
32	Atomic-Scale Studies of Overlapping Grain Boundaries between Parallel and Quasi-Parallel Grains in Low-Symmetry Monolayer ReS2. Matter, 2020, 3, 2108-2123.	5.0	11
33	Nanochannel Diffusion-Controlled Nitridation of Polycarbosilanes for Diversified SiCN Fibers with Interfacial Gradient-SiC_xN_y Phase and Enhanced High-Temperature Stability. ACS Applied Materials & Interfaces, 2019, 11, 12993-13002.	4.0	8
34	Growth mechanism and atomic structure of group-IIA compound-promoted CVD-synthesized monolayer transition metal dichalcogenides. Nanoscale, 2021, 13, 13030-13041.	2.8	7
35	Probing Atomicâ€Scale Fracture of Grain Boundaries in Lowâ€Symmetry 2D Materials. Small, 2021, 17, e2102739.	5.2	7
36	Structural Evolution of Atomically Thin 1Tâ€™â€²MoTe₂ Alloyed in Chalcogen Atmosphere. Small Structures, 2022, 3, .	6.9	6

#	Article	IF	Citations
37	Programing Two-Dimensional Materials in Non-Euclidean Spaces. CheM, 2020, 6, 829-831.	5.8	1