Shanshan Wang

List of Publications by Year
in descending order

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		218677	330143
37	3,056	26	37
papers	citations	h-index	g-index

37	37	37	5127
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural Evolution of Atomically Thin 1Tâ€™â€MoTe₂ Alloyed in Chalcogen Atmosphere. Small Structures, 2022, 3, .	12.0	6
2	Growth mechanism and atomic structure of group-IIA compound-promoted CVD-synthesized monolayer transition metal dichalcogenides. Nanoscale, 2021, 13, 13030-13041.	5.6	7
3	Probing Atomicâ€Scale Fracture of Grain Boundaries in Lowâ€symmetry 2D Materials. Small, 2021, 17, e2102739.	10.0	7
4	Programing Two-Dimensional Materials in Non-Euclidean Spaces. CheM, 2020, 6, 829-831.	11.7	1
5	Atomic-Scale Studies of Overlapping Grain Boundaries between Parallel and Quasi-Parallel Grains in Low-Symmetry Monolayer ReS2. Matter, 2020, 3, 2108-2123.	10.0	11
6	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.	14.9	39
7	Electricâ€Fieldâ€Assisted Growth of Vertical Graphene Arrays and the Application in Thermal Interface Materials. Advanced Functional Materials, 2020, 30, 2003302.	14.9	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.	8.0	46
9	Shape-Engineered Synthesis of Atomically Thin 1T-SnS₂ Catalyzed by Potassium Halides. ACS Nano, 2019, 13, 8265-8274.	14.6	51
10	Anisotropic Fracture Dynamics Due to Local Lattice Distortions. ACS Nano, 2019, 13, 5693-5702.	14.6	19
11	Synthesis and Transport Properties of Degenerate P-Type Nb-Doped WS₂ Monolayers. Chemistry of Materials, 2019, 31, 3534-3541.	6.7	71
12	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.	8.0	8
13	Large Dendritic Monolayer MoS₂ Grown by Atmospheric Pressure Chemical Vapor Deposition for Electrocatalysis. ACS Applied Materials & Interfaces, 2018, 10, 4630-4639.	8.0	88
14	Interlocking Friction Governs the Mechanical Fracture of Bilayer MoS₂. ACS Nano, 2018, 12, 3600-3608.	14.6	40
15	Ultrafast Carrier Transfer Promoted by Interlayer Coulomb Coupling in 2D/3D Perovskite Heterostructures. Laser and Photonics Reviews, 2018, 12, 1800128.	8.7	59
16	Atomically sharp interlayer stacking shifts at anti-phase grain boundaries in overlapping MoS₂ secondary layers. Nanoscale, 2018, 10, 16692-16702.	5.6	22
17	High-Temperature Corrosion Behavior of SiBCN Fibers for Aerospace Applications. ACS Applied Materials & Interfaces, 2018, 10, 19712-19720.	8.0	50
18	Preferential Pt Nanocluster Seeding at Grain Boundary Dislocations in Polycrystalline Monolayer MoS₂. ACS Nano, 2018, 12, 5626-5636.	14.6	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.	38.1	178
20	Oligomeric aminoborane precursors for the chemical vapour deposition growth of few-layer hexagonal boron nitride. CrystEngComm, 2017, 19, 285-294.	2.6	41
21	Atomic Structure and Dynamics of Single Platinum Atom Interactions with Monolayer MoS₂. ACS Nano, 2017, 11, 3392-3403.	14.6	126
22	Atomic structure and formation mechanism of sub-nanometer pores in 2D monolayer MoS₂. Nanoscale, 2017, 9, 6417-6426.	5.6	54
23	Epitaxial Templating of Two-Dimensional Metal Chloride Nanocrystals on Monolayer Molybdenum Disulfide. ACS Nano, 2017, 11, 6404-6415.	14.6	20
24	Edge-Enriched 2D MoS₂ Thin Films Grown by Chemical Vapor Deposition for Enhanced Catalytic Performance. ACS Catalysis, 2017, 7, 877-886.	11.2	123
25	Orientation dependent interlayer stacking structure in bilayer MoS₂domains. Nanoscale, 2017, 9, 13060-13068.	5.6	19
26	Growth of Large Single-Crystalline Monolayer Hexagonal Boron Nitride by Oxide-Assisted Chemical Vapor Deposition. Chemistry of Materials, 2017, 29, 6252-6260.	6.7	60
27	Atomically Flat Zigzag Edges in Monolayer MoS₂ by Thermal Annealing. Nano Letters, 2017, 17, 5502-5507.	9.1	70
28	In Situ Atomic-Scale Studies of the Formation of Epitaxial Pt Nanocrystals on Monolayer Molybdenum Disulfide. ACS Nano, 2017, 11, 9057-9067.	14.6	27
29	Atomic Structure and Dynamics of Defects in 2D MoS₂ Bilayers. ACS Omega, 2017, 2, 3315-3324.	3.5	32
30	Detailed Atomic Reconstruction of Extended Line Defects in Monolayer MoS₂. ACS Nano, 2016, 10, 5419-5430.	14.6	161
31	Atomically Sharp Crack Tips in Monolayer MoS₂ and Their Enhanced Toughness by Vacancy Defects. ACS Nano, 2016, 10, 9831-9839.	14.6	130
32	Atomic Structure and Spectroscopy of Single Metal (Cr, V) Substitutional Dopants in Monolayer MoS₂. ACS Nano, 2016, 10, 10227-10236.	14.6	96
33	Substrate control for large area continuous films of monolayer MoS₂by atmospheric pressure chemical vapor deposition. Nanotechnology, 2016, 27, 085604.	2.6	69
34	Torsional Deformations in Subnanometer MoS Interconnecting Wires. Nano Letters, 2016, 16, 1210-1217.	9.1	30
35	All Chemical Vapor Deposition Growth of MoS₂:h-BN Vertical van der Waals Heterostructures. ACS Nano, 2015, 9, 5246-5254.	14.6	326
36	Shape Evolution of Monolayer MoS₂ Crystals Grown by Chemical Vapor Deposition. Chemistry of Materials, 2014, 26, 6371-6379.	6.7	698

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37	Controlling sulphur precursor addition for large single crystal domains of WS₂. Nanoscale, 2014, 6, 12096-12103.	5.6	149