

Jiadong Zhou

List of Publications by Year in descending order

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85
papers

7,783
citations

61984

43
h-index

51608

86
g-index

89
all docs

89
docs citations

89
times ranked

9913
citing authors

#	ARTICLE	IF	CITATIONS
1	A library of atomically thin metal chalcogenides. <i>Nature</i> , 2018, 556, 355-359.	27.8	1,225
2	Room-temperature ferroelectricity in CuInP2S6 ultrathin flakes. <i>Nature Communications</i> , 2016, 7, 12357.	12.8	637
3	Bandgap engineering of two-dimensional semiconductor materials. <i>Npj 2D Materials and Applications</i> , 2020, 4, .	7.9	528
4	Highly Sensitive Detection of Polarized Light Using Anisotropic 2D ReS ₂ . <i>Advanced Functional Materials</i> , 2016, 26, 1169-1177.	14.9	376
5	High-quality monolayer superconductor NbSe ₂ grown by chemical vapour deposition. <i>Nature Communications</i> , 2017, 8, 394.	12.8	290
6	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe ₂ . <i>Nature Physics</i> , 2018, 14, 900-906.	16.7	249
7	VO ₂ thermochromic smart window for energy savings and generation. <i>Scientific Reports</i> , 2013, 3, 3029.	3.3	246
8	Controlled Synthesis of High-Quality Monolayered In_2Se_3 via Physical Vapor Deposition. <i>Nano Letters</i> , 2015, 15, 6400-6405.	9.1	239
9	Cobalt-Modulated Molybdenum-Dinitrogen Interaction in MoS ₂ for Catalyzing Ammonia Synthesis. <i>Journal of the American Chemical Society</i> , 2019, 141, 19269-19275.	13.7	189
10	Ultrasensitive 2D Bi ₂ O ₂ Se Phototransistors on Silicon Substrates. <i>Advanced Materials</i> , 2019, 31, e1804945.	21.0	183
11	Large Area and High Quality 2D Transition Metal Telluride. <i>Advanced Materials</i> , 2017, 29, 1603471.	21.0	181
12	Van der Waals negative capacitance transistors. <i>Nature Communications</i> , 2019, 10, 3037.	12.8	144
13	Bismuth Vacancy-Tuned Bismuth Oxybromide Ultrathin Nanosheets toward Photocatalytic CO ₂ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30786-30792.	8.0	140
14	Phase-controllable growth of ultrathin 2D magnetic FeTe crystals. <i>Nature Communications</i> , 2020, 11, 3729.	12.8	120
15	Enhanced performance of in-plane transition metal dichalcogenides monolayers by configuring local atomic structures. <i>Nature Communications</i> , 2020, 11, 2253.	12.8	112
16	Auto-optimizing Hydrogen Evolution Catalytic Activity of ReS ₂ through Intrinsic Charge Engineering. <i>ACS Nano</i> , 2018, 12, 4486-4493.	14.6	111
17	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. <i>Advanced Materials</i> , 2015, 27, 7800-7808.	21.0	109
18	Carbon Microtube Aerogel Derived from Kapok Fiber: An Efficient and Recyclable Sorbent for Oils and Organic Solvents. <i>ACS Nano</i> , 2020, 14, 595-602.	14.6	104

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19	Van der Waals p-n Junction Based on an Organic-Inorganic Heterostructure. <i>Advanced Functional Materials</i> , 2015, 25, 5865-5871.	14.9	98
20	Van der Waals engineering of ferroelectric heterostructures for long-retention memory. <i>Nature Communications</i> , 2021, 12, 1109.	12.8	98
21	InSe monolayer: synthesis, structure and ultra-high second-harmonic generation. <i>2D Materials</i> , 2018, 5, 025019.	4.4	92
22	Dual-Metal Interbonding as the Chemical Facilitator for Single-Atom Dispersions. <i>Advanced Materials</i> , 2020, 32, e2003484.	21.0	90
23	Toward a Mechanistic Understanding of Vertical Growth of van der Waals Stacked 2D Materials: A Multiscale Model and Experiments. <i>ACS Nano</i> , 2017, 11, 12780-12788.	14.6	89
24	Confining Tiny MoO ₂ Clusters into Reduced Graphene Oxide for Highly Efficient Low Frequency Microwave Absorption. <i>Small</i> , 2020, 16, e2001686.	10.0	87
25	One-Step Synthesis of Metal/Semiconductor Heterostructure NbS ₂ /MoS ₂ . <i>Chemistry of Materials</i> , 2018, 30, 4001-4007.	6.7	85
26	Synthesis of Co-Doped MoS ₂ Monolayers with Enhanced Valley Splitting. <i>Advanced Materials</i> , 2020, 32, e1906536.	21.0	84
27	Transport evidence of asymmetric spin-orbit coupling in few-layer superconducting 1Td-MoTe ₂ . <i>Nature Communications</i> , 2019, 10, 2044.	12.8	79
28	Air-Stable 2D Cr ₅ Te ₈ Nanosheets with Thickness-Tunable Ferromagnetism. <i>Advanced Materials</i> , 2022, 34, e2107512.	21.0	77
29	Epitaxial Synthesis of Monolayer PtSe ₂ Single Crystal on MoSe ₂ with Strong Interlayer Coupling. <i>ACS Nano</i> , 2019, 13, 10929-10938.	14.6	72
30	Phase engineering of Cr ₅ Te ₈ with colossal anomalous Hall effect. <i>Nature Electronics</i> , 2022, 5, 224-232.	26.0	68
31	Morphology Engineering in Monolayer MoS ₂ /WS ₂ Lateral Heterostructures. <i>Advanced Functional Materials</i> , 2018, 28, 1801568.	14.9	67
32	Diffraction-limited imaging with monolayer 2D material-based ultrathin flat lenses. <i>Light: Science and Applications</i> , 2020, 9, 137.	16.6	65
33	Controlled Growth and Reliable Thickness-Dependent Properties of Organic-Inorganic Perovskite Platelet Crystal. <i>Advanced Functional Materials</i> , 2016, 26, 5263-5270.	14.9	64
34	Composition and phase engineering of metal chalcogenides and phosphorous chalcogenides. <i>Nature Materials</i> , 2023, 22, 450-458.	27.5	62
35	2D Black Phosphorus/SrTiO ₃ -Based Programmable Photoconductive Switch. <i>Advanced Materials</i> , 2016, 28, 7768-7773.	21.0	57
36	Electric Field Effect in Two-Dimensional Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2017, 27, 1602404.	14.9	57

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37	Ultrathin Ruddlesden-Popper Perovskite Heterojunction for Sensitive Photodetection. <i>Small</i> , 2019, 15, e1902890.	10.0	56
38	Ordered and Atomically Perfect Fragmentation of Layered Transition Metal Dichalcogenides via Mechanical Instabilities. <i>ACS Nano</i> , 2017, 11, 9191-9199.	14.6	53
39	Anisotropic Ordering in 1T ² Molybdenum and Tungsten Ditelluride Layers Alloyed with Sulfur and Selenium. <i>ACS Nano</i> , 2018, 12, 894-901.	14.6	52
40	Light-Tunable 1T-TaS ₂ Charge-Density-Wave Oscillators. <i>ACS Nano</i> , 2018, 12, 11203-11210.	14.6	51
41	Phase-Controlled Synthesis of Monolayer Ternary Telluride with a Random Local Displacement of Tellurium Atoms. <i>Advanced Materials</i> , 2019, 31, e1900862.	21.0	51
42	Recent progress in the synthesis of novel two-dimensional van der Waals materials. <i>National Science Review</i> , 2022, 9, nwab164.	9.5	50
43	In-Plane Anisotropic Thermal Conductivity of Few-Layered Transition Metal Dichalcogenide Td ₂ WT ₂ . <i>Advanced Materials</i> , 2019, 31, e1804979.	21.0	45
44	A Tandem 0D/2D/2D NbS ₂ Quantum Dot/Nb ₂ O ₅ Nanosheet/g-C ₃ N ₄ Flake System with Spatial Charge-Transfer Cascades for Boosting Photocatalytic Hydrogen Evolution. <i>Small</i> , 2020, 16, e2003302.	10.0	40
45	Engineering Cocatalysts onto Low-Dimensional Photocatalysts for CO ₂ Reduction. <i>Small Structures</i> , 2021, 2, 2100046.	12.0	40
46	Electronegativity-Induced Charge Balancing to Boost Stability and Activity of Amorphous Electrocatalysts. <i>Advanced Materials</i> , 2022, 34, e2100537.	21.0	39
47	Dislocation-driven growth of two-dimensional lateral quantum-well superlattices. <i>Science Advances</i> , 2018, 4, eaap9096.	10.3	38
48	Controllable Epitaxial Growth of Large-Area MoS ₂ /WS ₂ Vertical Heterostructures by Confined-Space Chemical Vapor Deposition. <i>Small</i> , 2021, 17, e2007312.	10.0	37
49	Phase Transition and Superconductivity Enhancement in Se-Substituted MoTe ₂ Thin Films. <i>Advanced Materials</i> , 2019, 31, e1904641.	21.0	34
50	2D PtS nanorectangles/g-C ₃ N ₄ nanosheets with a metal sulfide support interaction effect for high-efficiency photocatalytic H ₂ evolution. <i>Materials Horizons</i> , 2021, 8, 612-618.	12.2	34
51	A universal method for rapid and large-scale growth of layered crystals. <i>SmartMat</i> , 2020, 1, e1011.	10.7	33
52	Optoelectronic properties of atomically thin ReSSe with weak interlayer coupling. <i>Nanoscale</i> , 2016, 8, 5826-5834.	5.6	32
53	Space-confined microwave synthesis of ternary-layered BiOCl crystals with high-performance ultraviolet photodetection. <i>Informa-Materials</i> , 2020, 2, 593-600.	17.3	32
54	Strain-driven growth of ultra-long two-dimensional nano-channels. <i>Nature Communications</i> , 2020, 11, 772.	12.8	31

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55	Raman scattering investigation of twisted WS ₂ /MoS ₂ heterostructures: interlayer mechanical coupling versus charge transfer. Nano Research, 2021, 14, 2215-2223.	10.4	29
56	Recent Advances in Synthesis and Study of 2D Twisted Transition Metal Dichalcogenide Bilayers. Small Structures, 2021, 2, 2000153.	12.0	29
57	Solid Phase Exfoliation for Producing Dispersible Transition Metal Dichalcogenides Nanosheets. Advanced Functional Materials, 2020, 30, 2004139.	14.9	27
58	Controlled Growth of 3R Phase Tantalum Diselenide and Its Enhanced Superconductivity. Journal of the American Chemical Society, 2020, 142, 2948-2955.	13.7	27
59	Sub-nanopores-containing N,O-codoped porous carbon from molecular-scale networked polymer hydrogel for solid-state supercapacitor. Chinese Chemical Letters, 2021, 32, 1111-1116.	9.0	26
60	Atomic-scale visualization of chiral charge density wave superlattices and their reversible switching. Nature Communications, 2022, 13, 1843.	12.8	25
61	Microwave Absorption: Confining Tiny MoO ₃ Clusters into Reduced Graphene Oxide for Highly Efficient Low Frequency Microwave Absorption (Small 30/2020). Small, 2020, 16, 2070168.	10.0	23
62	2D/2D atomic double-layer WS ₂ /Nb ₂ O ₅ shell/core nanosheets with ultrafast interfacial charge transfer for boosting photocatalytic H ₂ evolution. Chinese Chemical Letters, 2021, 32, 3128-3132.	9.0	23
63	Artificial Neuron Networks Enabled Identification and Characterizations of 2D Materials and van der Waals Heterostructures. ACS Nano, 2022, 16, 2721-2729.	14.6	22
64	Phase-Controlled Synthesis of Monolayer W _{1-x} Re _x S ₂ Alloy with Improved Photoresponse Performance. Small, 2020, 16, 2000852.	10.0	18
65	Molecular-scale cage-confinement pyrolysis route to size-controlled molybdenum carbide nanoparticles for electrochemical sensor. Biosensors and Bioelectronics, 2020, 165, 112373.	10.1	17
66	Photoresponse: Highly Sensitive Detection of Polarized Light Using Anisotropic 2D ReS ₂ (Adv. Funct. Mater. 8/2016). Advanced Functional Materials, 2016, 26, 1146-1146.	14.9	15
67	Pristine edge structures of Tâ€²-phase transition metal dichalcogenides (ReSe ₂), Tj ETQq1 1 0.784314 rgBT /Overloc	5.6	15
68	Direct Laser Patterning of a 2D WSe ₂ Logic Circuit. Advanced Functional Materials, 2021, 31, 2009549.	14.9	15
69	PdPSe: Component-Based Topology Designer of Two-Dimensional Semiconductor. Advanced Functional Materials, 2021, 31, 2102943.	14.9	15
70	Sea-urchin-like ReS ₂ nanosheets with charge edge-collection effect as a novel cocatalyst for high-efficiency photocatalytic H ₂ evolution. Chinese Chemical Letters, 2022, 33, 943-947.	9.0	14
71	Giant excitonic upconverted emission from two-dimensional semiconductor in doubly resonant plasmonic nanocavity. Light: Science and Applications, 2022, 11, .	16.6	14
72	Controlled Synthesis of MoxW1-xTe ₂ Atomic Layers with Emergent Quantum States. ACS Nano, 2021, 15, 11526-11534.	14.6	12

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73	Strong Moiré Excitons in High-Angle Twisted Transition Metal Dichalcogenide Homobilayers with Robust Commensuration. Nano Letters, 2022, 22, 203-210.	9.1	12
74	Emerging Phases of Layered Metal Chalcogenides. Small, 2022, 18, e2105215.	10.0	12
75	Anisotropic point defects in rhenium diselenide monolayers. IScience, 2021, 24, 103456.	4.1	11
76	Nanoscale Control of One-Dimensional Confined States in Strongly Correlated Homojunctions. Nano Letters, 2022, 22, 1190-1197.	9.1	10
77	Polymorphism of Segmented Grain Boundaries in Two-Dimensional Transition Metal Dichalcogenides. Nano Letters, 2021, 21, 6014-6021.	9.1	7
78	Solid-Ionic Memory in a van der Waals Heterostructure. ACS Nano, 2022, 16, 221-231.	14.6	6
79	Microporous Carbons Derived from α -Fructose Carbon with Excellent Microwave Absorption Performance. ACS Applied Electronic Materials, 2022, 4, 2424-2431.	4.3	6
80	Single-Molecule Confinement Induced Intrinsic Multi-Electron Redox Activity to Enhance Supercapacitor Performance. Energy and Environmental Materials, 2023, 6, .	12.8	5
81	Electron-Beam-Induced Synthesis of Hexagonal 1H-MoSe ₂ from Square Γ^2 -FeSe Decorated with Mo Adatoms. Nano Letters, 2018, 18, 2016-2020.	9.1	2
82	TMD Nanosheets: Solid Phase Exfoliation for Producing Dispersible Transition Metal Dichalcogenides Nanosheets (Adv. Funct. Mater. 45/2020). Advanced Functional Materials, 2020, 30, 2070294.	14.9	2
83	Dimensionality-dependent type-II Weyl semimetal state in $\text{Mo}_{0.25}\text{W}_{0.75}\text{Te}_2$. Physical Review B, 2021, 104, .		
84	Dislocation-Driven Growth of Two-Dimensional Lateral Quantum Well Superlattices. Microscopy and Microanalysis, 2018, 24, 88-89.	0.4	0
85	Synthesis and Electronic Devices of Atom-thin Transition Metal Dichalcogenides. , 2019, , .		0