

Jiadong Zhou

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	<sc>Single-Molecule</sc> Confinement Induced Intrinsic <sc>Multi-Electron Redox-Activity</sc> to Enhance Supercapacitor Performance. Energy and Environmental Materials, 2023, 6, .	12.8	5
2	Composition and phase engineering of metal chalcogenides and phosphorous chalcogenides. Nature Materials, 2023, 22, 450-458.	27.5	62
3	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
4	Recent progress in the synthesis of novel two-dimensional van der Waals materials. National Science Review, 2022, 9, nwab164.	9.5	50
5	Air-Stable 2D Cr ₅ Te ₈ Nanosheets with Thickness-Tunable Ferromagnetism. Advanced Materials, 2022, 34, e2107512.	21.0	77
6	Solid-Ionic Memory in a van der Waals Heterostructure. ACS Nano, 2022, 16, 221-231.	14.6	6
7	Artificial Neuron Networks Enabled Identification and Characterizations of 2D Materials and van der Waals Heterostructures. ACS Nano, 2022, 16, 2721-2729.	14.6	22
8	Nanoscale Control of One-Dimensional Confined States in Strongly Correlated Homojunctions. Nano Letters, 2022, 22, 1190-1197.	9.1	10
9	Electronegativity-Induced Charge Balancing to Boost Stability and Activity of Amorphous Electrocatalysts. Advanced Materials, 2022, 34, e2100537.	21.0	39
10	Atomic-scale visualization of chiral charge density wave superlattices and their reversible switching. Nature Communications, 2022, 13, 1843.	12.8	25
11	Strong Moiré Excitons in High-Angle Twisted Transition Metal Dichalcogenide Homobilayers with Robust Commensuration. Nano Letters, 2022, 22, 203-210.	9.1	12
12	Emerging Phases of Layered Metal Chalcogenides. Small, 2022, 18, e2105215.	10.0	12
13	Microporous Carbons Derived from <sc>d</sc>-Fructose Carbon with Excellent Microwave Absorption Performance. ACS Applied Electronic Materials, 2022, 4, 2424-2431.	4.3	6
14	Phase engineering of Cr ₅ Te ₈ with colossal anomalous Hall effect. Nature Electronics, 2022, 5, 224-232.	26.0	68
15	Giant excitonic upconverted emission from two-dimensional semiconductor in doubly resonant plasmonic nanocavity. Light: Science and Applications, 2022, 11, .	16.6	14
16	2D PtS nanorectangles/g-C ₃ N ₄ nanosheets with a metal sulfide support interaction effect for high-efficiency photocatalytic H ₂ evolution. Materials Horizons, 2021, 8, 612-618.	12.2	34
17	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
18	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

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19	Van der Waals engineering of ferroelectric heterostructures for long-retention memory. Nature Communications, 2021, 12, 1109.	12.8	98
20	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
21	Controllable Epitaxial Growth of Large-Area MoS ₂ /WS ₂ Vertical Heterostructures by Confined-Space Chemical Vapor Deposition. Small, 2021, 17, e2007312.	10.0	37
22	Direct Laser Patterning of a 2D WSe ₂ Logic Circuit. Advanced Functional Materials, 2021, 31, 2009549.	14.9	15
23	Recent Advances in Synthesis and Study of 2D Twisted Transition Metal Dichalcogenide Bilayers. Small Structures, 2021, 2, 2000153.	12.0	29
24	PdPSe: Component-Fusion-Based Topology Designer of Two-Dimensional Semiconductor. Advanced Functional Materials, 2021, 31, 2102943.	14.9	15
25	Controlled Synthesis of Mo _x W _{1-x} Te ₂ Atomic Layers with Emergent Quantum States. ACS Nano, 2021, 15, 11526-11534.	14.6	12
26	Polymorphism of Segmented Grain Boundaries in Two-Dimensional Transition Metal Dichalcogenides. Nano Letters, 2021, 21, 6014-6021.	9.1	7
27	Engineering Cocatalysts onto Low-Dimensional Photocatalysts for CO ₂ Reduction. Small Structures, 2021, 2, 2100046.	12.0	40
28	Dimensionality-dependent type-II Weyl semimetal state in $\text{Mo}_{0.25}\text{W}_{0.75}\text{Te}_2$. Physical Review B, 2021, 104, .		
29	Anisotropic point defects in rhenium diselenide monolayers. IScience, 2021, 24, 103456.	4.1	11
30	Space-confined microwave synthesis of ternary-layered BiOCl crystals with high-performance ultraviolet photodetection. Informa-Materials, 2020, 2, 593-600.	17.3	32
31	Carbon Microtube Aerogel Derived from Kapok Fiber: An Efficient and Recyclable Sorbent for Oils and Organic Solvents. ACS Nano, 2020, 14, 595-602.	14.6	104
32	Dual-Metal Interbonding as the Chemical Facilitator for Single-Atom Dispersions. Advanced Materials, 2020, 32, e2003484.	21.0	90
33	Pristine edge structures of $\text{Ta}^{\epsilon^2}\text{-phase}$ transition metal dichalcogenides (ReSe ₂ ,) Tj ETQq1 1 0.784314 rgBT /Overloc 15		
34	Diffraction-limited imaging with monolayer 2D material-based ultrathin flat lenses. Light: Science and Applications, 2020, 9, 137.	16.6	65
35	Phase-controllable growth of ultrathin 2D magnetic FeTe crystals. Nature Communications, 2020, 11, 3729.	12.8	120
36	Microwave Absorption: Confining Tiny MoO ₂ Clusters into Reduced Graphene Oxide for Highly Efficient Low Frequency Microwave Absorption (Small 30/2020). Small, 2020, 16, 2070168.	10.0	23

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37	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
38	Bandgap engineering of two-dimensional semiconductor materials. <i>Npj 2D Materials and Applications</i> , 2020, 4, .	7.9	528
39	Solid Phase Exfoliation for Producing Dispersible Transition Metal Dichalcogenides Nanosheets. <i>Advanced Functional Materials</i> , 2020, 30, 2004139.	14.9	27
40	A universal method for rapid and large-scale growth of layered crystals. <i>SmartMat</i> , 2020, 1, e1011.	10.7	33
41	TMD Nanosheets: Solid Phase Exfoliation for Producing Dispersible Transition Metal Dichalcogenides Nanosheets (<i>Adv. Funct. Mater.</i> 45/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070294.	14.9	2
42	Enhanced performance of in-plane transition metal dichalcogenides monolayers by configuring local atomic structures. <i>Nature Communications</i> , 2020, 11, 2253.	12.8	112
43	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
44	Molecular-scale cage-confinement pyrolysis route to size-controlled molybdenum carbide nanoparticles for electrochemical sensor. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112373.	10.1	17
45	Strain-driven growth of ultra-long two-dimensional nano-channels. <i>Nature Communications</i> , 2020, 11, 772.	12.8	31
46	Controlled Growth of 3R Phase Tantalum Diselenide and Its Enhanced Superconductivity. <i>Journal of the American Chemical Society</i> , 2020, 142, 2948-2955.	13.7	27
47	Synthesis of Co-Doped MoS ₂ Monolayers with Enhanced Valley Splitting. <i>Advanced Materials</i> , 2020, 32, e1906536.	21.0	84
48	Phase-Controlled Synthesis of Monolayer W _{1-x} Re _x S ₂ Alloy with Improved Photoresponse Performance. <i>Small</i> , 2020, 16, 2000852.	10.0	18
49	Ultrathin Ruddlesden-Popper Perovskite Heterojunction for Sensitive Photodetection. <i>Small</i> , 2019, 15, e1902890.	10.0	56
50	Van der Waals negative capacitance transistors. <i>Nature Communications</i> , 2019, 10, 3037.	12.8	144
51	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
52	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
53	Phase Transition and Superconductivity Enhancement in Se-Substituted MoTe ₂ Thin Films. <i>Advanced Materials</i> , 2019, 31, e1904641.	21.0	34
54	Synthesis and Electronic Devices of Atom-thin Transition Metal Dichalcogenides. , 2019, , .		0

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55	Epitaxial Synthesis of Monolayer PtSe ₂ Single Crystal on MoSe ₂ with Strong Interlayer Coupling. ACS Nano, 2019, 13, 10929-10938.	14.6	72
56	Phase-Controlled Synthesis of Monolayer Ternary Telluride with a Random Local Displacement of Tellurium Atoms. Advanced Materials, 2019, 31, e1900862.	21.0	51
57	Transport evidence of asymmetric spin-orbit coupling in few-layer superconducting 1Td-MoTe ₂ . Nature Communications, 2019, 10, 2044.	12.8	79
58	In-Plane Anisotropic Thermal Conductivity of Few-Layered Transition Metal Dichalcogenide Td-WTe ₂ . Advanced Materials, 2019, 31, e1804979.	21.0	45
59	Ultrasensitive 2D Bi ₂ O ₂ Se Phototransistors on Silicon Substrates. Advanced Materials, 2019, 31, e1804945.	21.0	183
60	InSe monolayer: synthesis, structure and ultra-high second-harmonic generation. 2D Materials, 2018, 5, 025019.	4.4	92
61	A library of atomically thin metal chalcogenides. Nature, 2018, 556, 355-359.	27.8	1,225
62	Electron-Beam-Induced Synthesis of Hexagonal 1H-MoSe ₂ from Square 1 ² -FeSe Decorated with Mo Adatoms. Nano Letters, 2018, 18, 2016-2020.	9.1	2
63	Anisotropic Ordering in 1T ² Molybdenum and Tungsten Ditelluride Layers Alloyed with Sulfur and Selenium. ACS Nano, 2018, 12, 894-901.	14.6	52
64	Auto-optimizing Hydrogen Evolution Catalytic Activity of ReS ₂ through Intrinsic Charge Engineering. ACS Nano, 2018, 12, 4486-4493.	14.6	111
65	One-Step Synthesis of Metal/Semiconductor Heterostructure NbS ₂ /MoS ₂ . Chemistry of Materials, 2018, 30, 4001-4007.	6.7	85
66	Dislocation-driven growth of two-dimensional lateral quantum-well superlattices. Science Advances, 2018, 4, eaap9096.	10.3	38
67	Light-Tunable 1T-TaS ₂ Charge-Density-Wave Oscillators. ACS Nano, 2018, 12, 11203-11210.	14.6	51
68	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe ₂ . Nature Physics, 2018, 14, 900-906.	16.7	249
69	Dislocation-Driven Growth of Two-Dimensional Lateral Quantum Well Superlattices. Microscopy and Microanalysis, 2018, 24, 88-89.	0.4	0
70	Morphology Engineering in Monolayer MoS ₂ -WS ₂ Lateral Heterostructures. Advanced Functional Materials, 2018, 28, 1801568.	14.9	67
71	Electric Field Effect in Two-Dimensional Transition Metal Dichalcogenides. Advanced Functional Materials, 2017, 27, 1602404.	14.9	57
72	High-quality monolayer superconductor NbSe ₂ grown by chemical vapour deposition. Nature Communications, 2017, 8, 394.	12.8	290

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73	Ordered and Atomically Perfect Fragmentation of Layered Transition Metal Dichalcogenides <i>via</i> Mechanical Instabilities. <i>ACS Nano</i> , 2017, 11, 9191-9199.	14.6	53
74	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
75	Large Area and High Quality 2D Transition Metal Telluride. <i>Advanced Materials</i> , 2017, 29, 1603471.	21.0	181
76	Highly Sensitive Detection of Polarized Light Using Anisotropic 2D ReS ₂ . <i>Advanced Functional Materials</i> , 2016, 26, 1169-1177.	14.9	376
77	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
78	2D Black Phosphorus/SrTiO ₃ -Based Programmable Photoconductive Switch. <i>Advanced Materials</i> , 2016, 28, 7768-7773.	21.0	57
79	Room-temperature ferroelectricity in CuInP ₂ S ₆ ultrathin flakes. <i>Nature Communications</i> , 2016, 7, 12357.	12.8	637
80	Photoresponse: Highly Sensitive Detection of Polarized Light Using Anisotropic 2D ReS ₂ (Adv. Funct. Mater. 8/2016). <i>Advanced Functional Materials</i> , 2016, 26, 1146-1146.	14.9	15
81	Optoelectronic properties of atomically thin ReSSe with weak interlayer coupling. <i>Nanoscale</i> , 2016, 8, 5826-5834.	5.6	32
82	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
83	Van der Waals p-n Junction Based on an Organic-Inorganic Heterostructure. <i>Advanced Functional Materials</i> , 2015, 25, 5865-5871.	14.9	98
84	Controlled Synthesis of High-Quality Monolayered In ₂ Se ₃ via Physical Vapor Deposition. <i>Nano Letters</i> , 2015, 15, 6400-6405.	9.1	239
85	VO ₂ thermochromic smart window for energy savings and generation. <i>Scientific Reports</i> , 2013, 3, 3029.	3.3	246