

Fucaï Liu

List of Publications by Year in descending order

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papers

6,438
citations

117571

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times ranked

9068
citing authors

#	ARTICLE	IF	CITATIONS
1	Composition and phase engineering of metal chalcogenides and phosphorous chalcogenides. <i>Nature Materials</i> , 2023, 22, 450-458.	13.3	62
2	Sea-urchin-like ReS ₂ nanosheets with charge edge-collection effect as a novel cocatalyst for high-efficiency photocatalytic H ₂ evolution. <i>Chinese Chemical Letters</i> , 2022, 33, 943-947.	4.8	14
3	Recent progress in the synthesis of novel two-dimensional van der Waals materials. <i>National Science Review</i> , 2022, 9, nwab164.	4.6	50
4	Mimicking Neuroplasticity via Ion Migration in van der Waals Layered Copper Indium Thiophosphate. <i>Advanced Materials</i> , 2022, 34, e2104676.	11.1	46
5	Solid-Ionic Memory in a van der Waals Heterostructure. <i>ACS Nano</i> , 2022, 16, 221-231.	7.3	6
6	Layered transition metal chalcogenophosphate towards air-stable visible light photodetection. <i>Journal of Physics: Conference Series</i> , 2022, 2174, 012025.	0.3	1
7	Nanostructured Materials and Architectures for Advanced Optoelectronic Synaptic Devices. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	45
8	Emerging Phases of Layered Metal Chalcogenides. <i>Small</i> , 2022, 18, e2105215.	5.2	12
9	2D semiconductor SnP ₂ S ₆ as a new dielectric material for 2D electronics. <i>Journal of Materials Chemistry C</i> , 2022, 10, 13753-13761.	2.7	5
10	2D Material Based Synaptic Devices for Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2021, 31, 2005443.	7.8	165
11	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.	6.4	34
12	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. <i>Chinese Chemical Letters</i> , 2021, 32, 3128-3132.	4.8	23
13	Direct Laser Patterning of a 2D WSe ₂ Logic Circuit. <i>Advanced Functional Materials</i> , 2021, 31, 2009549.	7.8	15
14	A Tandem OD/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.	5.2	40
15	Color-Recognizing Si-Based Photonic Synapse for Artificial Visual System. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000107.	3.3	21
16	Ferroelectric-field accelerated charge transfer in 2D CuInP ₂ S ₆ heterostructure for enhanced photocatalytic H ₂ evolution. <i>Nano Energy</i> , 2020, 76, 104972.	8.2	84
17	Toward 2D Magnets in the (MnBi ₂ Te ₄)(Bi ₂ Te ₃) _n Bulk Crystal. <i>Advanced Materials</i> , 2020, 32, e2001815.	11.1	45
18	Epitaxial Synthesis of Monolayer PtSe ₂ Single Crystal on MoSe ₂ with Strong Interlayer Coupling. <i>ACS Nano</i> , 2019, 13, 10929-10938.	7.3	72

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19	Controlled synthesis and room-temperature pyroelectricity of CuInP2S6 ultrathin flakes. Nano Energy, 2019, 58, 596-603.	8.2	52
20	Origin of giant negative piezoelectricity in a layered van der Waals ferroelectric. Science Advances, 2019, 5, eaav3780.	4.7	157
21	Anomalous Photothermoelectric Transport Due to Anisotropic Energy Dispersion in WTe ₂ . Nano Letters, 2019, 19, 2647-2652.	4.5	21
22	Natural van der Waals heterostructural single crystals with both magnetic and topological properties. Science Advances, 2019, 5, eaax9989.	4.7	193
23	Ultrasensitive 2D Bi ₂ O ₂ Se Phototransistors on Silicon Substrates. Advanced Materials, 2019, 31, e1804945.	11.1	183
24	InSe monolayer: synthesis, structure and ultra-high second-harmonic generation. 2D Materials, 2018, 5, 025019.	2.0	92
25	A library of atomically thin metal chalcogenides. Nature, 2018, 556, 355-359.	13.7	1,225
26	Synergistic Gating of Electro-Photoactive 2D Chalcogenide Neuristors: Coexistence of Hebbian and Homeostatic Synaptic Metaplasticity. Advanced Materials, 2018, 30, e1800220.	11.1	261
27	One-Step Synthesis of Metal/Semiconductor Heterostructure NbS ₂ /MoS ₂ . Chemistry of Materials, 2018, 30, 4001-4007.	3.2	85
28	Light-Tunable 1T-TaS ₂ Charge-Density-Wave Oscillators. ACS Nano, 2018, 12, 11203-11210.	7.3	51
29	Production Methods of Van der Waals Heterostructures Based on Transition Metal Dichalcogenides. Crystals, 2018, 8, 35.	1.0	47
30	Morphology Engineering in Monolayer MoS ₂ /WS ₂ Lateral Heterostructures. Advanced Functional Materials, 2018, 28, 1801568.	7.8	67
31	Room-temperature electrically driven phase transition of two-dimensional 1T-TaS ₂ layers. Nanoscale, 2017, 9, 2436-2441.	2.8	19
32	High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. Advanced Materials, 2017, 29, 1602969.	11.1	251
33	Electric Field Effect in Two-Dimensional Transition Metal Dichalcogenides. Advanced Functional Materials, 2017, 27, 1602404.	7.8	57
34	High-quality monolayer superconductor NbSe ₂ grown by chemical vapour deposition. Nature Communications, 2017, 8, 394.	5.8	290
35	Large-Area and High-Quality 2D Transition Metal Telluride. Advanced Materials, 2017, 29, 1603471.	11.1	181
36	Metal-Semiconductor Phase Transition in WSe ₂ (1-x)Te _{2x} Monolayer. Advanced Materials, 2017, 29, 1603991.	11.1	123

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37	Highly Sensitive Detection of Polarized Light Using Anisotropic 2D ReS ₂ . Advanced Functional Materials, 2016, 26, 1169-1177.	7.8	376
38	Fast Photoresponse from 1T Tin Diselenide Atomic Layers. Advanced Functional Materials, 2016, 26, 137-145.	7.8	150
39	2D Black Phosphorus/SrTiO ₃ -Based Programmable Photoconductive Switch. Advanced Materials, 2016, 28, 7768-7773.	11.1	57
40	Room-temperature ferroelectricity in CuInP ₂ S ₆ ultrathin flakes. Nature Communications, 2016, 7, 12357.	5.8	637
41	Coupling and Interlayer Exciton in Twist-Stacked WS ₂ Bilayers. Advanced Optical Materials, 2015, 3, 1600-1605.	3.6	63
42	Van der Waals p-n Junction Based on an Organic-Inorganic Heterostructure. Advanced Functional Materials, 2015, 25, 5865-5871.	7.8	98
43	Controlled Synthesis of High-Quality Monolayered In ₂ Se ₃ via Physical Vapor Deposition. Nano Letters, 2015, 15, 6400-6405.	4.5	239
44	Two-dimensional heterostructures: fabrication, characterization, and application. Nanoscale, 2014, 6, 12250-12272.	2.8	323
45	High-Sensitivity Photodetectors Based on Multilayer GaTe Flakes. ACS Nano, 2014, 8, 752-760.	7.3	319
46	Improved sensitivity of nonvolatile holographic storage in triply doped LiNbO ₃ :Zr,Cu,Ce. Optics Express, 2010, 18, 6333.	1.7	20
47	High resistance against ultraviolet photorefractive in zirconium-doped lithium niobate crystals. Optics Letters, 2010, 35, 10.	1.7	31
48	Fast responsive nonvolatile holographic storage in LiNbO ₃ triply doped with Zr, Fe, and Mn. Optics Letters, 2009, 34, 3896.	1.7	21
49	Nonvolatile holographic storage of near-stoichiometric LiNbO ₃ :Cu:Ce with green light. Applied Optics, 2007, 46, 7620.	2.1	9