

Yue Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,268
citations

471509

17
h-index

434195

31
g-index

36
all docs

36
docs citations

36
times ranked

1610
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional multibit optoelectronic memory with broadband spectrum distinction. <i>Nature Communications</i> , 2018, 9, 2966.	12.8	211
2	Recent developments in 2D transition metal dichalcogenides: phase transition and applications of the (quasi-)metallic phases. <i>Chemical Society Reviews</i> , 2021, 50, 10087-10115.	38.1	135
3	Efficient photocatalytic hydrogen peroxide generation coupled with selective benzylamine oxidation over defective ZrS ₃ nanobelts. <i>Nature Communications</i> , 2021, 12, 2039.	12.8	90
4	Ohmic Contact Engineering for Two-Dimensional Materials. <i>Cell Reports Physical Science</i> , 2021, 2, 100298.	5.6	81
5	Intrinsic polarization coupling in 2D In ₂ Se ₃ toward artificial synapse with multimode operations. <i>SmartMat</i> , 2021, 2, 88-98.	10.7	81
6	Surface charge transfer doping for two-dimensional semiconductor-based electronic and optoelectronic devices. <i>Nano Research</i> , 2021, 14, 1682-1697.	10.4	72
7	Nonvolatile and Programmable Photodoping in MoTe ₂ for Photoresist-Free Complementary Electronic Devices. <i>Advanced Materials</i> , 2018, 30, e1804470.	21.0	70
8	Band-tailored van der Waals heterostructure for multilevel memory and artificial synapse. <i>Information Materials</i> , 2021, 3, 917-928.	17.3	59
9	Synthesis of Monolayer Blue Phosphorus Enabled by Silicon Intercalation. <i>ACS Nano</i> , 2020, 14, 3687-3695.	14.6	52
10	Direct Observation of Semiconductor-Metal Phase Transition in Bilayer Tungsten Diselenide Induced by Potassium Surface Functionalization. <i>ACS Nano</i> , 2018, 12, 2070-2077.	14.6	44
11	Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization. <i>Advanced Materials</i> , 2018, 30, e1801931.	21.0	43
12	Anomalous Broadband Spectrum Photodetection in 2D Rhenium Disulfide Transistor. <i>Advanced Optical Materials</i> , 2019, 7, 1901115.	7.3	37
13	Black phosphorus inverter devices enabled by in-situ aluminum surface modification. <i>Nano Research</i> , 2019, 12, 531-536.	10.4	33
14	Controlling Native Oxidation of HfS ₂ for 2D Materials Based Flash Memory and Artificial Synapse. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10639-10649.	8.0	33
15	Reversible Oxidation of Blue Phosphorus Monolayer on Au(111). <i>Nano Letters</i> , 2019, 19, 5340-5346.	9.1	27
16	Out-of-Plane Homojunction Enabled High Performance SnS ₂ Lateral Phototransistor. <i>Advanced Optical Materials</i> , 2020, 8, 1901971.	7.3	27
17	Surface passivation of black phosphorus via van der Waals stacked PTCDA. <i>Applied Surface Science</i> , 2019, 496, 143688.	6.1	26
18	Designing Kagome Lattice from Potassium Atoms on Phosphorus-Gold Surface Alloy. <i>Nano Letters</i> , 2020, 20, 5583-5589.	9.1	20

#	ARTICLE	IF	CITATIONS
19	Efficiently band-tailored type-III van der Waals heterostructure for tunnel diodes and optoelectronic devices. <i>Nano Research</i> , 2022, 15, 8442-8450.	10.4	18
20	Degenerate electron-doping in two-dimensional tungsten diselenide with a dimeric organometallic reductant. <i>Materials Today</i> , 2019, 30, 26-33.	14.2	14
21	Surface Charge Transfer Doping Enabled Large Hysteresis in van der Waals Heterostructures for Artificial Synapse. , 2021, 3, 235-242.		14
22	Alkali metal storage mechanism in organic semiconductor of perylene-3,4,9,10-tetracarboxylicdianhydride. <i>Applied Surface Science</i> , 2020, 524, 146396.	6.1	13
23	Controlling phase transition in WSe ₂ towards ideal n-type transistor. <i>Nano Research</i> , 2021, 14, 2703-2710.	10.4	13
24	Van der Waals Heterostructures with Tunable Tunneling Behavior Enabled by MoO ₃ Surface Functionalization. <i>Advanced Optical Materials</i> , 2020, 8, 1901867.	7.3	11
25	Controllable growth of centimeter-scale 2D crystalline conjugated polymers for photonic synaptic transistors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2681-2689.	5.5	11
26	Nondestructive hole doping enabled photocurrent enhancement of layered tungsten diselenide. <i>2D Materials</i> , 2019, 6, 024002.	4.4	7
27	Surface Functionalization of Black Phosphorus by Cu: Effective Electron Doping and Enhanced Photoresponse. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000701.	3.7	6
28	Two-dimensional reconfigurable electronics enabled by asymmetric floating gate. <i>Nano Research</i> , 2022, 15, 4439-4447.	10.4	6
29	Native Oxide Seeded Spontaneous Integration of Dielectrics on Exfoliated Black Phosphorus. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24411-24418.	8.0	5
30	Surface Functionalization of Black Phosphorus with a Highly Reducing Organoruthenium Complex: Interface Properties and Enhanced Photoresponsivity of Photodetectors. <i>Chemistry - A European Journal</i> , 2020, 26, 6576-6582.	3.3	4
31	Dynamic Tuning of Moiré Superlattice Morphology by Laser Modification. <i>ACS Nano</i> , 2022, 16, 8172-8180.	14.6	3
32	Photodoping: Nonvolatile and Programmable Photodoping in MoTe ₂ for Photoresist-Free Complementary Electronic Devices (Adv. Mater. 52/2018). <i>Advanced Materials</i> , 2018, 30, 1870402.	21.0	1
33	Phosphorene. , 2022, , 121-148.		1
34	Black Phosphorus: Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization (Adv. Mater. 43/2018). <i>Advanced Materials</i> , 2018, 30, 1870325.	21.0	0
35	TMD-Based Phototransistors: Anomalous Broadband Spectrum Photodetection in 2D Rhenium Disulfide Transistor (Advanced Optical Materials 23/2019). <i>Advanced Optical Materials</i> , 2019, 7, 1970088.	7.3	0
36	Outside Front Cover: Volume 2 Issue 1. <i>SmartMat</i> , 2021, 2, i.	10.7	0