

Yue Zheng

List of Publications by Year in descending order

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36
papers

1,268
citations

471509

17
h-index

434195

31
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all docs

36
docs citations

36
times ranked

1610
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Two-dimensional reconfigurable electronics enabled by asymmetric floating gate. <i>Nano Research</i> , 2022, 15, 4439-4447.	10.4	6
3	Dynamic Tuning of Moiré Superlattice Morphology by Laser Modification. <i>ACS Nano</i> , 2022, 16, 8172-8180.	14.6	3
4	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
5	Phosphorene. , 2022, , 121-148.		1
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	Ohmic Contact Engineering for Two-Dimensional Materials. <i>Cell Reports Physical Science</i> , 2021, 2, 100298.	5.6	81
8	Controlling phase transition in WSe ₂ towards ideal n-type transistor. <i>Nano Research</i> , 2021, 14, 2703-2710.	10.4	13
9	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
10	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
11	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
12	Outside Front Cover: Volume 2 Issue 1. <i>SmartMat</i> , 2021, 2, i.	10.7	0
13	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
14	Band-tailored van der Waals heterostructure for multilevel memory and artificial synapse. <i>Information Materials</i> , 2021, 3, 917-928.	17.3	59
15	Surface Charge Transfer Doping Enabled Large Hysteresis in van der Waals Heterostructures for Artificial Synapse. , 2021, 3, 235-242.		14
16	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
17	Surface Functionalization of Black Phosphorus by Cu: Effective Electron Doping and Enhanced Photoresponse. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000701.	3.7	6
18	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

#	ARTICLE	IF	CITATIONS
19	Designing Kagome Lattice from Potassium Atoms on Phosphorusâ€“Gold Surface Alloy. Nano Letters, 2020, 20, 5583-5589.	9.1	20
20	Synthesis of Monolayer Blue Phosphorus Enabled by Silicon Intercalation. ACS Nano, 2020, 14, 3687-3695.	14.6	52
21	Outâ€“ofâ€“Plane Homojunction Enabled High Performance SnS ₂ Lateral Phototransistor. Advanced Optical Materials, 2020, 8, 1901971.	7.3	27
22	Van der Waals Heterostructures with Tunable Tunneling Behavior Enabled by MoO ₃ Surface Functionalization. Advanced Optical Materials, 2020, 8, 1901867.	7.3	11
23	Native Oxide Seeded Spontaneous Integration of Dielectrics on Exfoliated Black Phosphorus. ACS Applied Materials & Interfaces, 2020, 12, 24411-24418.	8.0	5
24	Surface passivation of black phosphorus via van der Waals stacked PTCDA. Applied Surface Science, 2019, 496, 143688.	6.1	26
25	Reversible Oxidation of Blue Phosphorus Monolayer on Au(111). Nano Letters, 2019, 19, 5340-5346.	9.1	27
26	Anomalous Broadband Spectrum Photodetection in 2D Rhenium Disulfide Transistor. Advanced Optical Materials, 2019, 7, 1901115.	7.3	37
27	Degenerate electron-doping in two-dimensional tungsten diselenide with a dimeric organometallic reductant. Materials Today, 2019, 30, 26-33.	14.2	14
28	Nondestructive hole doping enabled photocurrent enhancement of layered tungsten diselenide. 2D Materials, 2019, 6, 024002.	4.4	7
29	TMDâ€“Based Phototransistors: Anomalous Broadband Spectrum Photodetection in 2D Rhenium Disulfide Transistor (Advanced Optical Materials 23/2019). Advanced Optical Materials, 2019, 7, 1970088.	7.3	0
30	Black phosphorus inverter devices enabled by in-situ aluminum surface modification. Nano Research, 2019, 12, 531-536.	10.4	33
31	Direct Observation of Semiconductorâ€“Metal Phase Transition in Bilayer Tungsten Diselenide Induced by Potassium Surface Functionalization. ACS Nano, 2018, 12, 2070-2077.	14.6	44
32	Photodoping: Nonvolatile and Programmable Photodoping in MoTe ₂ for Photoresistâ€“Free Complementary Electronic Devices (Adv. Mater. 52/2018). Advanced Materials, 2018, 30, 1870402.	21.0	1
33	Nonvolatile and Programmable Photodoping in MoTe ₂ for Photoresistâ€“Free Complementary Electronic Devices. Advanced Materials, 2018, 30, e1804470.	21.0	70
34	Black Phosphorus: Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization (Adv. Mater. 43/2018). Advanced Materials, 2018, 30, 1870325.	21.0	0
35	Two-dimensional multibit optoelectronic memory with broadband spectrum distinction. Nature Communications, 2018, 9, 2966.	12.8	211
36	Abnormal Nearâ€“Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization. Advanced Materials, 2018, 30, e1801931.	21.0	43