

# Zehua Hu

## List of Publications by Year in descending order

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25  
papers

1,928  
citations

430754

18  
h-index

610775

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

3603  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional transition metal dichalcogenides: interface and defect engineering. <i>Chemical Society Reviews</i> , 2018, 47, 3100-3128.	18.7	604
2	Vapour-liquid-solid growth of monolayer MoS <sub>2</sub> nanoribbons. <i>Nature Materials</i> , 2018, 17, 535-542.	13.3	286
3	Water-Catalyzed Oxidation of Few-Layer Black Phosphorous in a Dark Environment. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9131-9135.	7.2	141
4	Surface Functionalization of Black Phosphorus via Potassium toward High-Performance Complementary Devices. <i>Nano Letters</i> , 2017, 17, 4122-4129.	4.5	117
5	Growth of Quasi-Free-Standing Single-Layer Blue Phosphorus on Tellurium Monolayer Functionalized Au(111). <i>ACS Nano</i> , 2017, 11, 4943-4949.	7.3	109
6	Surface Transfer Doping-Induced, High-Performance Graphene/Silicon Schottky Junction-Based, Self-Powered Photodetector. <i>Small</i> , 2015, 11, 4829-4836.	5.2	103
7	Two-dimensional black phosphorus: its fabrication, functionalization and applications. <i>Nanoscale</i> , 2018, 10, 21575-21603.	2.8	73
8	2D Phosphorene: Epitaxial Growth and Interface Engineering for Electronic Devices. <i>Advanced Materials</i> , 2018, 30, e1802207.	11.1	58
9	Manipulating Charge and Energy Transfer between 2D Atomic Layers via Heterostructure Engineering. <i>Nano Letters</i> , 2020, 20, 5359-5366.	4.5	51
10	Interfacial charge and energy transfer in van der Waals heterojunctions. <i>Information Materials</i> , 2022, 4, .	8.5	48
11	Oxygen induced strong mobility modulation in few-layer black phosphorus. <i>2D Materials</i> , 2017, 4, 021007.	2.0	45
12	Direct Observation of Semiconductor-Metal Phase Transition in Bilayer Tungsten Diselenide Induced by Potassium Surface Functionalization. <i>ACS Nano</i> , 2018, 12, 2070-2077.	7.3	44
13	Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization. <i>Advanced Materials</i> , 2018, 30, e1801931.	11.1	43
14	Black phosphorus inverter devices enabled by in-situ aluminum surface modification. <i>Nano Research</i> , 2019, 12, 531-536.	5.8	33
15	Evidence for Moiré Trions in Twisted MoSe <sub>2</sub> Homobilayers. <i>Nano Letters</i> , 2021, 21, 4461-4468.	4.5	31
16	Significantly enhanced optoelectronic performance of tungsten diselenide phototransistor via surface functionalization. <i>Nano Research</i> , 2017, 10, 1282-1291.	5.8	30
17	Trion-Mediated Förster Resonance Energy Transfer and Optical Gating Effect in WS <sub>2</sub> /hBN/MoSe <sub>2</sub> Heterojunction. <i>ACS Nano</i> , 2020, 14, 13470-13477.	7.3	29
18	Reversible Oxidation of Blue Phosphorus Monolayer on Au(111). <i>Nano Letters</i> , 2019, 19, 5340-5346.	4.5	27

#	ARTICLE	IF	CITATIONS
19	Water-Catalyzed Oxidation of Few-Layer Black Phosphorous in a Dark Environment. <i>Angewandte Chemie</i> , 2017, 129, 9259-9263.	1.6	16
20	Degenerate electron-doping in two-dimensional tungsten diselenide with a dimeric organometallic reductant. <i>Materials Today</i> , 2019, 30, 26-33.	8.3	14
21	A 3D topological Dirac semimetal/MoO <sub>3</sub> thin film heterojunction infrared photodetector with a current reversal phenomenon. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16024-16031.	2.7	10
22	Nondestructive hole doping enabled photocurrent enhancement of layered tungsten diselenide. <i>2D Materials</i> , 2019, 6, 024002.	2.0	7
23	2D Phosphorene: Epitaxial Growth and Interface Engineering for Electronic Devices ( <i>Adv. Mater.</i> 47/2018). <i>Advanced Materials</i> , 2018, 30, 1870359.	11.1	5
24	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.	1.7	4
25	Black Phosphorus: Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization ( <i>Adv. Mater.</i> 43/2018). <i>Advanced Materials</i> , 2018, 30, 1870325.	11.1	0