

Yunxia Hu

List of Publications by Year in descending order

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34
papers

1,732
citations

304368

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times ranked

2069
citing authors

#	ARTICLE	IF	CITATIONS
1	High-responsivity photodetector based on scrolling monolayer MoS ₂ hybridized with carbon quantum dots. <i>Nanotechnology</i> , 2022, 33, 105301.	1.3	10
2	High-Performance Broadband Photoelectrochemical Photodetectors Based on Ultrathin Bi ₂ O ₂ S Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7175-7183.	4.0	78
3	Engineering the Optoelectronic Properties of 2D Hexagonal Boron Nitride Monolayer Films by Sulfur Substitutional Doping. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 16453-16461.	4.0	10
4	Atomically Thin Hexagonal Boron Nitride and Its Heterostructures. <i>Advanced Materials</i> , 2021, 33, e2000769.	11.1	71
5	High-Performance van der Waals Metal-Insulator-Semiconductor Photodetector Optimized with Valence Band Matching. <i>Advanced Functional Materials</i> , 2021, 31, 2104359.	7.8	45
6	Ultralow Power Optical Synapses Based on MoS ₂ Layers by Indium-Induced Surface Charge Doping for Biomimetic Eyes. <i>Advanced Materials</i> , 2021, 33, e2104960.	11.1	53
7	Mixed-Dimensional InSe-Si Heterojunction Nanostructures for Self-Powered Broadband Photodetectors. <i>ACS Applied Nano Materials</i> , 2021, 4, 12932-12936.	2.4	6
8	Ultralow Power Optical Synapses Based on MoS ₂ Layers by Indium-Induced Surface Charge Doping for Biomimetic Eyes (Adv. Mater. 52/2021). <i>Advanced Materials</i> , 2021, 33, .	11.1	4
9	Synthesis of Multilayer InSe _{0.82} Te _{0.18} alloy for high performance near-infrared photodetector. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152375.	2.8	5
10	Tunable electronic properties of multilayer InSe by alloy engineering for high performance self-powered photodetector. <i>Journal of Colloid and Interface Science</i> , 2020, 565, 239-244.	5.0	11
11	A mixed-dimensional 1D Se-2D InSe van der Waals heterojunction for high responsivity self-powered photodetectors. <i>Nanoscale Horizons</i> , 2020, 5, 564-572.	4.1	88
12	Enhanced Piezoelectric Effect Derived from Grain Boundary in MoS ₂ Monolayers. <i>Nano Letters</i> , 2020, 20, 201-207.	4.5	66
13	Intrinsic Dipole Coupling in 2D van der Waals Ferroelectrics for Gate-Controlled Switchable Rectifier. <i>Advanced Electronic Materials</i> , 2020, 6, 1900975.	2.6	27
14	Contact engineering high-performance ambipolar multilayer tellurium transistors. <i>Nanotechnology</i> , 2020, 31, 115204.	1.3	13
15	Monolayer hydrophilic MoS ₂ with strong charge trapping for atomically thin neuromorphic vision systems. <i>Materials Horizons</i> , 2020, 7, 3316-3324.	6.4	26
16	Multilayer InSe-Te van der Waals Heterostructures with an Ultrahigh Rectification Ratio and Ultrasensitive Photoresponse. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37313-37319.	4.0	47
17	High-Performance Devices Based on InSe-In _{1-x} Ga _x Se Van der Waals Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24978-24983.	4.0	11
18	Synthesis of High-Quality Multilayer Hexagonal Boron Nitride Films on Au Foils for Ultrahigh Rejection Ratio Solar-Blind Photodetection. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28351-28359.	4.0	27

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19	The role of hybrid dielectric interfaces in improving the performance of multilayer InSe transistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6701-6709.	2.7	8
20	Ultrafast and Sensitive Self-Powered Photodetector Featuring Self-Limited Depletion Region and Fully Depleted Channel with van der Waals Contacts. <i>ACS Nano</i> , 2020, 14, 9098-9106.	7.3	120
21	Robust Piezo-Phototronic Effect in Multilayer In^3Se for High-Performance Self-Powered Flexible Photodetectors. <i>ACS Nano</i> , 2019, 13, 7291-7299.	7.3	118
22	Enhanced photoresponse of monolayer MoS_2 through hybridization with carbon quantum dots as efficient photosensitizer. <i>2D Materials</i> , 2019, 6, 035025.	2.0	24
23	Synthesis of Superlattice InSe Nanosheets with Enhanced Electronic and Optoelectronic Performance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18511-18516.	4.0	13
24	Shape evolution of two dimensional hexagonal boron nitride single domains on Cu/Ni alloy and its applications in ultraviolet detection. <i>Nanotechnology</i> , 2019, 30, 245706.	1.3	31
25	Synchronous Enhancement for Responsivity and Response Speed in In_2Se_3 Photodetector Modulated by Piezoresistive Effect. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47098-47105.	4.0	29
26	Hollow Spherical Nanoshell Arrays of 2D Layered Semiconductor for High-Performance Photodetector Device. <i>Advanced Functional Materials</i> , 2018, 28, 1705153.	7.8	50
27	Vertical MoSe_2 MoO_x heterojunction and its application in optoelectronics. <i>Nanotechnology</i> , 2018, 29, 045202.	1.3	11
28	Synthesis of Two-Dimensional Alloy $\text{Ga}_{0.84}\text{In}_{0.16}\text{Se}$ Nanosheets for High-Performance Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43299-43304.	4.0	17
29	Temperature-dependent growth of few layer $\text{In}^2\text{-InSe}$ and $\text{In}^{\pm}\text{-In}_2\text{Se}_3$ single crystals for optoelectronic device. <i>Semiconductor Science and Technology</i> , 2018, 33, 125002.	1.0	29
30	Intrinsic Two-Dimensional Ferroelectricity with Dipole Locking. <i>Physical Review Letters</i> , 2018, 120, 227601.	2.9	322
31	Phase-Engineering-Driven Enhanced Electronic and Optoelectronic Performance of Multilayer In_2Se_3 Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27584-27588.	4.0	51
32	High-performance and flexible photodetectors based on chemical vapor deposition grown two-dimensional In_2Se_3 nanosheets. <i>Nanotechnology</i> , 2018, 29, 445205.	1.3	54
33	A Dual-Band Multilayer InSe Self-Powered Photodetector with High Performance Induced by Surface Plasmon Resonance and Asymmetric Schottky Junction. <i>ACS Nano</i> , 2018, 12, 8739-8747.	7.3	206
34	An efficient $\text{WSe}_2/\text{Co}_{0.85}\text{Se}$ /graphene hybrid catalyst for electrochemical hydrogen evolution reaction. <i>RSC Advances</i> , 2016, 6, 51725-51731.	1.7	51