

Jinshui Miao

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Surface Plasmon-Enhanced Photodetection in Few Layer MoS ₂ Phototransistors with Au Nanostructure Arrays. <i>Small</i> , 2015, 11, 2392-2398.	10.0	359
2	Unipolar barrier photodetectors based on van der Waals heterostructures. <i>Nature Electronics</i> , 2021, 4, 357-363.	26.0	292
3	Single InAs Nanowire Room-Temperature Near-Infrared Photodetectors. <i>ACS Nano</i> , 2014, 8, 3628-3635.	14.6	238
4	High efficiency and fast van der Waals hetero-photodiodes with a unilateral depletion region. <i>Nature Communications</i> , 2019, 10, 4663.	12.8	213
5	Anomalous and Highly Efficient InAs Nanowire Phototransistors Based on Majority Carrier Transport at Room Temperature. <i>Advanced Materials</i> , 2014, 26, 8203-8209.	21.0	168
6	High-Responsivity Graphene/InAs Nanowire Heterojunction Near-Infrared Photodetectors with Distinct Photocurrent On/Off Ratios. <i>Small</i> , 2015, 11, 936-942.	10.0	166
7	Ultrashort Channel Length Black Phosphorus Field-Effect Transistors. <i>ACS Nano</i> , 2015, 9, 9236-9243.	14.6	138
8	Fully Printed Stretchable Thin-Film Transistors and Integrated Logic Circuits. <i>ACS Nano</i> , 2016, 10, 11459-11468.	14.6	118
9	Recent Progress on Electrical and Optical Manipulations of Perovskite Photodetectors. <i>Advanced Science</i> , 2021, 8, e2100569.	11.2	118
10	Photothermal Effect Induced Negative Photoconductivity and High Responsivity in Flexible Black Phosphorus Transistors. <i>ACS Nano</i> , 2017, 11, 6048-6056.	14.6	104
11	Hybrid exciton-plasmon-polaritons in van der Waals semiconductor gratings. <i>Nature Communications</i> , 2020, 11, 3552.	12.8	90
12	Post-CMOS Compatible Aluminum Scandium Nitride/2D Channel Ferroelectric Field-Effect-Transistor Memory. <i>Nano Letters</i> , 2021, 21, 3753-3761.	9.1	83
13	Black phosphorus electronic and optoelectronic devices. <i>2D Materials</i> , 2019, 6, 032003.	4.4	76
14	Fully Printed Silver-Nanoparticle-Based Strain Gauges with Record High Sensitivity. <i>Advanced Electronic Materials</i> , 2017, 3, 1700067.	5.1	75
15	Screen-Printed Soft Capacitive Sensors for Spatial Mapping of Both Positive and Negative Pressures. <i>Advanced Functional Materials</i> , 2019, 29, 1809116.	14.9	75
16	Gate-Tunable Semiconductor Heterojunctions from 2D/3D van der Waals Interfaces. <i>Nano Letters</i> , 2020, 20, 2907-2915.	9.1	69
17	Direct Printing for Additive Patterning of Silver Nanowires for Stretchable Sensor and Display Applications. <i>Advanced Materials Technologies</i> , 2018, 3, 1700232.	5.8	68
18	Controllable Doping in 2D Layered Materials. <i>Advanced Materials</i> , 2021, 33, e2104942.	21.0	59

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19	Single Pixel Black Phosphorus Photodetector for Near-Infrared Imaging. <i>Small</i> , 2018, 14, 1702082.	10.0	56
20	Vertically Stacked and Self-Encapsulated van der Waals Heterojunction Diodes Using Two-Dimensional Layered Semiconductors. <i>ACS Nano</i> , 2017, 11, 10472-10479.	14.6	55
21	Fully Printed Foldable Integrated Logic Gates with Tunable Performance Using Semiconducting Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2015, 25, 5698-5705.	14.9	52
22	Black Phosphorus Schottky Diodes: Channel Length Scaling and Application as Photodetectors. <i>Advanced Electronic Materials</i> , 2016, 2, 1500346.	5.1	51
23	Determination of Dielectric Functions and Exciton Oscillator Strength of Two-Dimensional Hybrid Perovskites. , 2021, 3, 148-159.		47
24	Avalanche photodetectors based on two-dimensional layered materials. <i>Nano Research</i> , 2021, 14, 1878-1888.	10.4	44
25	Fully Printed Flexible Dual-Gate Carbon Nanotube Thin-Film Transistors with Tunable Ambipolar Characteristics for Complementary Logic Circuits. <i>ACS Nano</i> , 2018, 12, 11572-11578.	14.6	42
26	Ultrathin MoO ₂ nanosheets with good thermal stability and high conductivity. <i>AIP Advances</i> , 2017, 7, .	1.3	37
27	Recent progress and challenges on two-dimensional material photodetectors from the perspective of advanced characterization technologies. <i>Nano Research</i> , 2021, 14, 1840-1862.	10.4	36
28	Direct Optoelectronic Imaging of 2D Semiconductor-3D Metal Buried Interfaces. <i>ACS Nano</i> , 2021, 15, 5618-5630.	14.6	35
29	Fully printed flexible carbon nanotube photodetectors. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	23
30	Emerging Single-Photon Detectors Based on Low-Dimensional Materials. <i>Small</i> , 2022, 18, e2103963.	10.0	23
31	Bolometric-Effect-Based Wavelength-Selective Photodetectors Using Sorted Single Chirality Carbon Nanotubes. <i>Scientific Reports</i> , 2015, 5, 17883.	3.3	20
32	Ternary 2D Layered Material FePSe ₃ and Near-Infrared Photodetector. <i>Advanced Electronic Materials</i> , 2021, 7, 2100207.	5.1	19
33	Narrowing Bandgap of HfS ₂ by Te Substitution for Short-Wavelength Infrared Photodetection. <i>Advanced Optical Materials</i> , 2021, 9, 2002248.	7.3	17
34	Giant Gate-Tunability of Complex Refractive Index in Semiconducting Carbon Nanotubes. <i>ACS Photonics</i> , 2020, 7, 2896-2905.	6.6	16
35	Nanowires: Anomalous and Highly Efficient InAs Nanowire Phototransistors Based on Majority Carrier Transport at Room Temperature (<i>Adv. Mater.</i> 48/2014). <i>Advanced Materials</i> , 2014, 26, 8232-8232.	21.0	9
36	High-detectivity tin disulfide nanowire photodetectors with manipulation of localized ferroelectric polarization field. <i>Nanophotonics</i> , 2021, 10, 4637-4644.	6.0	4

#	ARTICLE	IF	CITATIONS
37	Au Nanoarrays: Surface Plasmon-Enhanced Photodetection in Few Layer MoS ₂ Phototransistors with Au Nanostructure Arrays (Small 20/2015). Small, 2015, 11, 2346-2346.	10.0	3
38	Photodetectors: High-Responsivity Graphene/InAs Nanowire Heterojunction Near-Infrared Photodetectors with Distinct Photocurrent On/Off Ratios (Small 8/2015). Small, 2015, 11, 890-890.	10.0	2
39	MoS ₂ Nanoribbon Transistor for Logic Electronics. IEEE Transactions on Electron Devices, 2022, 69, 3433-3438.	3.0	1