

Xing Zhou

List of Publications by Year in descending order

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papers

4,827
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101496

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citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrathin SnSe ₂ Flakes Grown by Chemical Vapor Deposition for High-Performance Photodetectors. <i>Advanced Materials</i> , 2015, 27, 8035-8041.	11.1	460
2	Tunneling Diode Based on WSe ₂ /SnS ₂ Heterostructure Incorporating High Detectivity and Responsivity. <i>Advanced Materials</i> , 2018, 30, 1703286.	11.1	293
3	Large-Size Growth of Ultrathin SnS ₂ Nanosheets and High Performance for Phototransistors. <i>Advanced Functional Materials</i> , 2016, 26, 4405-4413.	7.8	279
4	2D Layered Material-Based van der Waals Heterostructures for Optoelectronics. <i>Advanced Functional Materials</i> , 2018, 28, 1706587.	7.8	279
5	Self-powered photovoltaic photodetector established on lateral monolayer MoS ₂ -WS ₂ heterostructures. <i>Nano Energy</i> , 2018, 51, 45-53.	8.2	209
6	Vertical heterostructures based on SnSe ₂ /MoS ₂ for high performance photodetectors. <i>2D Materials</i> , 2017, 4, 025048.	2.0	183
7	Booming Development of Group IV-VI Semiconductors: Fresh Blood of 2D Family. <i>Advanced Science</i> , 2016, 3, 1600177.	5.6	181
8	High-Performance Solar-Blind Deep Ultraviolet Photodetector Based on Individual Single-Crystalline Zn ₂ GeO ₄ Nanowire. <i>Advanced Functional Materials</i> , 2016, 26, 704-712.	7.8	163
9	Highly Anisotropic GeSe Nanosheets for Phototransistors with Ultrahigh Photoresponsivity. <i>Advanced Science</i> , 2018, 5, 1800478.	5.6	163
10	Decorating Perovskite Quantum Dots in TiO ₂ Nanotubes Array for Broadband Response Photodetector. <i>Advanced Functional Materials</i> , 2017, 27, 1703115.	7.8	142
11	Broadband convolutional processing using band-alignment-tunable heterostructures. <i>Nature Electronics</i> , 2022, 5, 248-254.	13.1	131
12	Space-Confined Chemical Vapor Deposition Synthesis of Ultrathin HfS ₂ Flakes for Optoelectronic Application. <i>Advanced Functional Materials</i> , 2017, 27, 1702918.	7.8	122
13	Strong In-Plane Anisotropies of Optical and Electrical Response in Layered Dimetal Chalcogenide. <i>ACS Nano</i> , 2017, 11, 10264-10272.	7.3	116
14	2D Ternary Chalcogenides. <i>Advanced Optical Materials</i> , 2018, 6, 1800058.	3.6	114
15	High performance near-infrared photodetectors based on ultrathin SnS nanobelts grown via physical vapor deposition. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2111-2116.	2.7	113
16	Van der Waals Integration Based on Two-Dimensional Materials for High-Performance Infrared Photodetectors. <i>Advanced Functional Materials</i> , 2021, 31, 2103106.	7.8	112
17	Synergistic additive-mediated CVD growth and chemical modification of 2D materials. <i>Chemical Society Reviews</i> , 2019, 48, 4639-4654.	18.7	108
18	Highly In-Plane Anisotropic 2D PdSe ₂ for Polarized Photodetection with Orientation Selectivity. <i>Advanced Functional Materials</i> , 2021, 31, 2006774.	7.8	100

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19	Ultrathin 2D GeSe ₂ Rhombic Flakes with High Anisotropy Realized by Van der Waals Epitaxy. <i>Advanced Functional Materials</i> , 2017, 27, 1703858.	7.8	95
20	Two-dimensional inorganic molecular crystals. <i>Nature Communications</i> , 2019, 10, 4728.	5.8	91
21	Liquid-Alloy-Assisted Growth of 2D Ternary Ga ₂ In ₄ S ₉ toward High-Performance UV Photodetection. <i>Advanced Materials</i> , 2019, 31, e1806306.	11.1	90
22	P-GaSe/N-MoS ₂ Vertical Heterostructures Synthesized by van der Waals Epitaxy for Photoresponse Modulation. <i>Small</i> , 2018, 14, 1702731.	5.2	87
23	Self-Limited Epitaxial Growth of Ultrathin Nonlayered CdS Flakes for High-Performance Photodetectors. <i>Advanced Functional Materials</i> , 2018, 28, 1800181.	7.8	86
24	Halide-Induced Self-Limited Growth of Ultrathin Nonlayered Ge Flakes for High-Performance Phototransistors. <i>Journal of the American Chemical Society</i> , 2018, 140, 12909-12914.	6.6	85
25	Air-Stable 2D Cr ₅ Te ₈ Nanosheets with Thickness-Tunable Ferromagnetism. <i>Advanced Materials</i> , 2022, 34, e2107512.	11.1	77
26	Hydrogen-Assisted Growth of Ultrathin Te Flakes with Giant Gate-Dependent Photoresponse. <i>Advanced Functional Materials</i> , 2019, 29, 1906585.	7.8	62
27	Junction Field-Effect Transistors Based on PdSe ₂ /MoS ₂ Heterostructures for Photodetectors Showing High Responsivity and Detectivity. <i>Advanced Functional Materials</i> , 2021, 31, 2106105.	7.8	61
28	Epitaxial Growth of Rectangle Shape MoS ₂ with Highly Aligned Orientation on Twofold Symmetry α -Plane Sapphire. <i>Small</i> , 2020, 16, e2000596.	5.2	53
29	Growth of Ultrathin Ternary Teallite (PbSnS ₂) Flakes for Highly Anisotropic Optoelectronics. <i>Matter</i> , 2020, 2, 977-987.	5.0	53
30	Giant-Enhanced SnS ₂ Photodetectors with Broadband Response through Oxygen Plasma Treatment. <i>Advanced Functional Materials</i> , 2020, 30, 2001650.	7.8	48
31	Strong In-Plane Anisotropic SiP ₂ as a IV-V 2D Semiconductor for Polarized Photodetection. <i>ACS Nano</i> , 2021, 15, 20442-20452.	7.3	45
32	Synthesis of 2H-Ta ₂ WS ₂ -ReS ₂ Heterophase Structures with Atomically Sharp Interface via Hydrogen-Triggered One-Pot Growth. <i>Advanced Functional Materials</i> , 2020, 30, 1910169.	7.8	42
33	Salt-Assisted Growth of P-type Cu ₉ S ₅ Nanoflakes for P-N Heterojunction Photodetectors with High Responsivity. <i>Advanced Functional Materials</i> , 2020, 30, 1908382.	7.8	40
34	One-step synthesis of p-type GaSe nanoribbons and their excellent performance in photodetectors and phototransistors. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7817-7823.	2.7	39
35	Salt-Assisted Growth of Ultrathin GeSe Rectangular Flakes for Phototransistors with Ultrahigh Responsivity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23353-23360.	4.0	38
36	Excellent Excitonic Photovoltaic Effect in 2D CsPbBr ₃ /CdS Heterostructures. <i>Advanced Functional Materials</i> , 2020, 30, 2006166.	7.8	38

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37	Recent Advances in 2D Rare Earth Materials. <i>Advanced Functional Materials</i> , 2021, 31, .	7.8	37
38	Large-scale synthesis of 2D metal dichalcogenides. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4627-4640.	2.7	35
39	Intercalation Strategy in 2D Materials for Electronics and Optoelectronics. <i>Small Methods</i> , 2021, 5, e2100567.	4.6	32
40	Low-symmetry and Nontoxic 2D SiP with Strong Polarization-sensitive Sensitivity and Fast Photodetection. <i>Advanced Optical Materials</i> , 2021, 9, 2100198.	3.6	29
41	Nonlayered CdSe Flakes Homojunctions. <i>Advanced Functional Materials</i> , 2020, 30, 1908902.	7.8	28
42	High- T_C Two-Dimensional Ferroelectric CuCrS_2 Grown via Chemical Vapor Deposition. <i>ACS Nano</i> , 2022, 16, 8141-8149.	7.3	23
43	2D semiconductors towards high-performance ultraviolet photodetection. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 303002.	1.3	22
44	Geometry dependent photoconductivity of In_2S_3 kinks synthesized by kinetically controlled thermal deposition. <i>Nano Research</i> , 2016, 9, 3848-3857.	5.8	20
45	Controllable Carrier Type in Boron Phosphide Nanowires Toward Homostructural Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10296-10303.	4.0	20
46	Synergistic Additive-Assisted Growth of 2D Ternary In_2SnS_4 with Giant Gate-Tunable Polarization-sensitive Photoresponse. <i>Small</i> , 2021, 17, e2008078.	5.2	18
47	Synthesis of Large-Area Uniform MoS_2 - WS_2 Lateral Heterojunction Nanosheets for Photodetectors. <i>ACS Applied Nano Materials</i> , 2021, 4, 5522-5530.	2.4	17
48	Universal p-Type Doping via Lewis Acid for 2D Transition-Metal Dichalcogenides. <i>ACS Nano</i> , 2022, 16, 4884-4891.	7.3	17
49	Space-Confined Growth of 2D InI Showing High Sensitivity in Photodetection. <i>Advanced Electronic Materials</i> , 2020, 6, 2000284.	2.6	14
50	Stoichiometric Effect on Optoelectronic Properties of Composition-Tunable $\text{CdS}_{1-x}\text{Se}_x$ Nanowires. <i>Advanced Optical Materials</i> , 2017, 5, 1600877.	3.6	13
51	Growth of Highly Anisotropic 2D Ternary CaTe_2O_5 Flakes on Molten Glass. <i>Advanced Functional Materials</i> , 2019, 29, 1903216.	7.8	13
52	2D Rare Earth Material (EuOCl) with Ultra-Narrow Photoluminescence at Room Temperature. <i>Small</i> , 2021, 17, e2100137.	5.2	12
53	Flexible Photodetectors with High Responsivity and Broad Spectral Response Employing Ternary $\text{Sn}_x\text{Cd}_{1-x}\text{S}$ Micronanostructures. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4151-4161.	2.0	12
54	Room-Temperature Ferroelectricity in 2D Metal-Tellurium-Oxyhalide $\text{Cd}_7\text{Te}_7\text{Cl}_8\text{O}_{17}$ via Selenium-Induced Selective-Bonding Growth. <i>ACS Nano</i> , 2021, 15, 16525-16532.	7.3	12

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55	Programmable Polarization of 2D Anisotropic Rare Earth Material for Images Transmission and Encryption. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	10
56	GeSe/MoTe ₂ vdW heterostructure for UV-Vis-NIR photodetector with fast response. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	10
57	Photodetectors: Ultrathin SnSe ₂ Flakes Grown by Chemical Vapor Deposition for High-Performance Photodetectors (<i>Adv. Mater.</i> 48/2015). <i>Advanced Materials</i> , 2015, 27, 8119-8119.	11.1	6
58	2D Van der Waals Rare Earth Material Based Ratiometric Luminescence Thermography Integrated on Micro-Nano Devices Vertically. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	6
59	An improved inverse kinematics solution for 6-DOF robot manipulators with offset wrists. <i>Robotica</i> , 2022, 40, 2275-2294.	1.3	5
60	Electrically-Tunable Photoluminescence of 2D ErOCl for High-Security Encryption of Programmable Information. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	4
61	Electrical Characteristics: High-Performance Solar-Blind Deep Ultraviolet Photodetector Based on Individual Single-Crystalline Zn ₂ GeO ₄ Nanowire (<i>Adv. Funct. Mater.</i> 5/2016). <i>Advanced Functional Materials</i> , 2016, 26, 804-804.	7.8	3
62	Two-Dimensional Metal Chalcogenide Heterostructures: Designed Growth and Emerging Novel Applications. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100515.	1.9	3
63	Two-dimensional metal halides. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 013002.	1.3	3
64	Optical Logic Operation Encryption on ZnTe Flake. <i>Advanced Optical Materials</i> , 0, , 2200560.	3.6	2
65	Recent advances in 2D graphene reinforced metal matrix composites. <i>Nanotechnology</i> , 2022, 33, 062003.	1.3	0
66	Fresh Blood of Two-Dimensional Materials: Group IV-VI Semiconductors. <i>Zhongguo Jiguang/Chinese Journal of Lasers</i> , 2017, 44, 0703006.	0.2	0