

# Yu Zhang

## List of Publications by Citations

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55  
papers

5,772  
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56  
ext. papers

6,705  
ext. citations

12.9  
avg, IF

5.56  
L-index

#	Paper	IF	Citations
55	Controlled growth of high-quality monolayer WS <sub>2</sub> layers on sapphire and imaging its grain boundary. <i>ACS Nano</i> , <b>2013</b> , 7, 8963-71	16.7	586
54	Epitaxial monolayer MoS <sub>2</sub> on mica with novel photoluminescence. <i>Nano Letters</i> , <b>2013</b> , 13, 3870-7	11.5	456
53	Controllable growth and transfer of monolayer MoS <sub>2</sub> on Au foils and its potential application in hydrogen evolution reaction. <i>ACS Nano</i> , <b>2014</b> , 8, 10196-204	16.7	351
52	Tunable GaTe-MoS <sub>2</sub> van der Waals p-n Junctions with Novel Optoelectronic Performance. <i>Nano Letters</i> , <b>2015</b> , 15, 7558-66	11.5	303
51	Component-controllable WS <sub>2</sub> (1-x)Se <sub>2x</sub> nanotubes for efficient hydrogen evolution reaction. <i>ACS Nano</i> , <b>2014</b> , 8, 8468-76	16.7	285
50	Recent advances in transition-metal dichalcogenide based nanomaterials for water splitting. <i>Nanoscale</i> , <b>2015</b> , 7, 19764-88	7.7	263
49	Van der Waals epitaxy and photoresponse of hexagonal tellurium nanoplates on flexible mica sheets. <i>ACS Nano</i> , <b>2014</b> , 8, 7497-505	16.7	198
48	High-Performance Ultraviolet Photodetector Based on a Few-Layered 2D NiPS <sub>3</sub> Nanosheet. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701342	15.6	170
47	2D library beyond graphene and transition metal dichalcogenides: a focus on photodetection. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 6296-6341	58.5	145
46	High-Performance Near-Infrared Photodetector Based on Ultrathin Bi <sub>2</sub> O <sub>2</sub> Se Nanosheets. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706437	15.6	144
45	Ultrasensitive Phototransistors Based on Few-Layered HfS <sub>2</sub> . <i>Advanced Materials</i> , <b>2015</b> , 27, 7881-7	24	144
44	Dendritic, transferable, strictly monolayer MoS <sub>2</sub> flakes synthesized on SrTiO <sub>3</sub> single crystals for efficient electrocatalytic applications. <i>ACS Nano</i> , <b>2014</b> , 8, 8617-24	16.7	140
43	Role of Ga vacancy on a multilayer GaTe phototransistor. <i>ACS Nano</i> , <b>2014</b> , 8, 4859-65	16.7	137
42	Recent Progress in CVD Growth of 2D Transition Metal Dichalcogenides and Related Heterostructures. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901694	24	131
41	New Frontiers on van der Waals Layered Metal Phosphorous Trichalcogenides. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802151	15.6	125
40	Two-Dimensional Non-Layered Materials: Synthesis, Properties and Applications. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1603254	15.6	124
39	van der Waals epitaxial ultrathin two-dimensional nonlayered semiconductor for highly efficient flexible optoelectronic devices. <i>Nano Letters</i> , <b>2015</b> , 15, 1183-9	11.5	116

38	Synthesis, properties and applications of 2D layered MX (M = Ga, In; X = S, Se, Te) materials. <i>Nanoscale</i> , <b>2016</b> , 8, 16802-16818	7.7	100
37	Highly sensitive and fast phototransistor based on large size CVD-grown SnS <sub>2</sub> nanosheets. <i>Nanoscale</i> , <b>2015</b> , 7, 14093-9	7.7	99
36	Enhanced Electrochemical H <sub>2</sub> Evolution by Few-Layered Metallic WS <sub>2</sub> (1-x)Se <sub>2x</sub> Nanoribbons. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 6077-6083	15.6	98
35	High-performance flexible photodetectors based on GaTe nanosheets. <i>Nanoscale</i> , <b>2015</b> , 7, 7252-8	7.7	97
34	Designing the shape evolution of SnSe <sub>2</sub> nanosheets and their optoelectronic properties. <i>Nanoscale</i> , <b>2015</b> , 7, 17375-80	7.7	96
33	Ultrathin Single-Crystalline CdTe Nanosheets Realized via Van der Waals Epitaxy. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703122	24	90
32	CoS(2x)Se(2(1-x)) nanowire array: an efficient ternary electrocatalyst for the hydrogen evolution reaction. <i>Nanoscale</i> , <b>2016</b> , 8, 4699-704	7.7	89
31	Strain-Modulated Bandgap and Piezo-Resistive Effect in Black Phosphorus Field-Effect Transistors. <i>Nano Letters</i> , <b>2017</b> , 17, 6097-6103	11.5	88
30	High Crystal Quality 2D Manganese Phosphorus Trichalcogenide Nanosheets and their Photocatalytic Activity. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800548	15.6	86
29	High-Crystalline 2D Layered PbI <sub>2</sub> with Ultrasmooth Surface: Liquid-Phase Synthesis and Application of High-Speed Photon Detection. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600291	6.4	80
28	Ultrathin Magnetic 2D Single-Crystal CrSe. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900056	24	78
27	Ultrahigh sensitive MoTe <sub>2</sub> phototransistors driven by carrier tunneling. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 043503	3.4	78
26	The Role of Active Oxide Species for Electrochemical Water Oxidation on the Surface of 3d-Metal Phosphides. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703290	21.8	77
25	Epitaxial 2D PbS Nanoplates Arrays with Highly Efficient Infrared Response. <i>Advanced Materials</i> , <b>2016</b> , 28, 8051-8057	24	77
24	Chemical vapor deposition of monolayer WS <sub>2</sub> nanosheets on Au foils toward direct application in hydrogen evolution. <i>Nano Research</i> , <b>2015</b> , 8, 2881-2890	10	75
23	High-Yield Production of Monolayer FePS Quantum Sheets via Chemical Exfoliation for Efficient Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707433	24	75
22	Tunable Room-Temperature Ferromagnetism in Two-Dimensional CrTe. <i>Nano Letters</i> , <b>2020</b> , 20, 3130-3139	19.5	71
21	Two-dimensional metal phosphorus trisulfide nanosheet with solar hydrogen-evolving activity. <i>Nano Energy</i> , <b>2017</b> , 40, 673-680	17.1	71

20	Sub-millimeter-Scale Growth of One-Unit-Cell-Thick Ferrimagnetic CrS Nanosheets. <i>Nano Letters</i> , <b>2019</b> , 19, 2154-2161	11.5	67
19	Progress on Electronic and Optoelectronic Devices of 2D Layered Semiconducting Materials. <i>Small</i> , <b>2017</b> , 13, 1604298	11	55
18	Monolayer MoS <sub>2</sub> Dendrites on a Symmetry-Disparate SrTiO <sub>3</sub> (001) Substrate: Formation Mechanism and Interface Interaction. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3299-3305	15.6	44
17	Vertical SnSe nanorod arrays: from controlled synthesis and growth mechanism to thermistor and photoresistor. <i>Nanotechnology</i> , <b>2014</b> , 25, 105705	3.4	42
16	BN-Enabled Epitaxy of Pb(1-x)Sn(x)Se Nanoplates on SiO <sub>2</sub> /Si for High-Performance Mid-Infrared Detection. <i>Small</i> , <b>2015</b> , 11, 5388-94	11	34
15	Configuration-dependent anti-ambipolar van der Waals p-n heterostructures based on pentacene single crystal and MoS. <i>Nanoscale</i> , <b>2017</b> , 9, 7519-7525	7.7	28
14	Dendritic growth of monolayer ternary WSe flakes for enhanced hydrogen evolution reaction. <i>Nanoscale</i> , <b>2017</b> , 9, 5641-5647	7.7	27
13	Direct Observation of High Photoresponsivity in Pure Graphene Photodetectors. <i>Nanoscale Research Letters</i> , <b>2017</b> , 12, 93	5	22
12	Highly sensitive photodetectors based on hybrid 2D-0D SnS <sub>2</sub> -copper indium sulfide quantum dots. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 013101	3.4	22
11	Recent Advances in 2D Materials for Photodetectors. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2001125	6.4	17
10	Enhanced mobility in organic field-effect transistors due to semiconductor/dielectric interface control and very thin single crystal. <i>Nanotechnology</i> , <b>2016</b> , 27, 275202	3.4	12
9	Nanoseed Assisted PVT Growth of Ultrathin 2D Pentacene Molecular Crystal Directly onto SiO <sub>2</sub> Substrate. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 2624-2630	3.5	11
8	Anti-Ambipolar Transport with Large Electrical Modulation in 2D Heterostructured Devices. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901144	24	10
7	Few-layered CuInP <sub>2</sub> S <sub>6</sub> nanosheet with sulfur vacancy boosting photocatalytic hydrogen evolution. <i>CrystEngComm</i> , <b>2021</b> , 23, 591-598	3.3	10
6	Hierarchically heterostructured metal hydr(oxy)oxides for efficient overall water splitting. <i>Nanoscale</i> , <b>2019</b> , 11, 11736-11743	7.7	9
5	A wafer-scale two-dimensional platinum monosulfide ultrathin film via metal sulfurization for high performance photoelectronics. <i>Materials Advances</i> , <b>2022</b> , 3, 1497-1505	3.3	5
4	Controlled synthesis and Raman study of a 2D antiferromagnetic P-type semiconductor: $\beta$ -MnSe. <i>Nanoscale</i> , <b>2021</b> , 13, 6953-6964	7.7	4
3	A Ferroelectric p/n Heterostructure for Highly Enhanced Short-Circuit Current Density and Self-Powered Photodetection. <i>Advanced Electronic Materials</i> , <b>2021</b> , 10, 2101385	6.4	4

- 2 Newly developed two-dimensional materials for efficient photocatalytic hydrogen evolution. *Science Bulletin*, **2019**, 64, 958-960 10.6 3
- 1 Growth, Raman Scattering Investigation and Photodetector Properties of 2D SnP.. *Small*, **2022**, e21080171 2