

# Zhibin Yang

## List of Publications by Citations

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32  
papers

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ext. papers

2,798  
ext. citations

12.6  
avg, IF

5.34  
L-index

#	Paper	IF	Citations
32	Deep ultraviolet to near-infrared emission and photoresponse in layered N-doped graphene quantum dots. <i>ACS Nano</i> , <b>2014</b> , 8, 6312-20	16.7	384
31	Field-effect transistors based on amorphous black phosphorus ultrathin films by pulsed laser deposition. <i>Advanced Materials</i> , <b>2015</b> , 27, 3748-54	24	222
30	Universal Strategy for HF-Free Facile and Rapid Synthesis of Two-dimensional MXenes as Multifunctional Energy Materials. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 9610-9616	16.4	208
29	Wafer-Scale Synthesis of High-Quality Semiconducting Two-Dimensional Layered InSe with Broadband Photoresponse. <i>ACS Nano</i> , <b>2017</b> , 11, 4225-4236	16.7	207
28	Solution-Processable Ultrathin Black Phosphorus as an Effective Electron Transport Layer in Organic Photovoltaics. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 864-871	15.6	157
27	2D Layered Materials of Rare-Earth Er-Doped MoS <sub>2</sub> with NIR-to-NIR Down- and Up-Conversion Photoluminescence. <i>Advanced Materials</i> , <b>2016</b> , 28, 7472-7	24	130
26	Magnetic-Assisted Noncontact Triboelectric Nanogenerator Converting Mechanical Energy into Electricity and Light Emissions. <i>Advanced Materials</i> , <b>2016</b> , 28, 2744-51	24	107
25	Progress in pulsed laser deposited two-dimensional layered materials for device applications. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 8859-8878	7.1	86
24	Wind energy and blue energy harvesting based on magnetic-assisted noncontact triboelectric nanogenerator. <i>Nano Energy</i> , <b>2016</b> , 30, 36-42	17.1	85
23	Colossal permittivity properties of Zn,Nb co-doped TiO <sub>2</sub> with different phase structures. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 11005-11010	7.1	77
22	Three-terminal memtransistors based on two-dimensional layered gallium selenide nanosheets for potential low-power electronics applications. <i>Nano Energy</i> , <b>2019</b> , 57, 566-573	17.1	65
21	Centimeter-scale growth of two-dimensional layered high-mobility bismuth films by pulsed laser deposition. <i>Information Materials</i> , <b>2019</b> , 1, 98-107	23.1	56
20	Recent Progress in 2D Layered III-VI Semiconductors and their Heterostructures for Optoelectronic Device Applications. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900108	6.8	54
19	Lanthanide Yb/Er co-doped semiconductor layered WSe nanosheets with near-infrared luminescence at telecommunication wavelengths. <i>Nanoscale</i> , <b>2018</b> , 10, 9261-9267	7.7	49
18	Observation of Room-Temperature Magnetoresistance in Monolayer MoS by Ferromagnetic Gating. <i>ACS Nano</i> , <b>2017</b> , 11, 6950-6958	16.7	48
17	Luminescence in 2D Materials and van der Waals Heterostructures. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1701296	8.1	45
16	Ferroelectric-Driven Performance Enhancement of Graphene Field-Effect Transistors Based on Vertical Tunneling Heterostructures. <i>Advanced Materials</i> , <b>2016</b> , 28, 10048-10054	24	45

15	Large-scale growth of few-layer two-dimensional black phosphorus. <i>Nature Materials</i> , <b>2021</b> , 20, 1203-1209		43
14	Recent Progress in Black-Phosphorus-Based Heterostructures for Device Applications. <i>Small Methods</i> , <b>2018</b> , 2, 1700296	12.8	39
13	Layer-dependent photoresponse of 2D MoS <sub>2</sub> films prepared by pulsed laser deposition. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 2522-2529	7.1	32
12	Ultrasensitive Flexible Solar-Blind Photodetectors Based on Graphene/Amorphous GaO van der Waals Heterojunctions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 47714-47720	9.5	30
11	Efficient hole transfer from monolayer WS <sub>2</sub> to ultrathin amorphous black phosphorus. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 236-242	10.8	19
10	Amorphous two-dimensional black phosphorus with exceptional photocarrier transport properties. <i>2D Materials</i> , <b>2017</b> , 4, 025063	5.9	16
9	How Universal Is the Wetting Aging in 2D Materials. <i>Nano Letters</i> , <b>2020</b> , 20, 5670-5677	11.5	14
8	Hybrid heterostructures and devices based on two-dimensional layers and wide bandgap materials. <i>Materials Today Nano</i> , <b>2020</b> , 12, 100092	9.7	14
7	In-plane dielectric properties of epitaxial Ba <sub>0.7</sub> Sr <sub>0.3</sub> TiO <sub>3</sub> thin films grown on GaAs for tunable device application. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 054110	2.5	12
6	Determination of band alignment of pulsed-laser-deposited perovskite titanate/III-V semiconductor heterostructure using X-ray and ultraviolet photoelectron spectroscopy. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 031919	3.4	11
5	p-GaSe/n-Ga <sub>2</sub> O <sub>3</sub> van der Waals Heterostructure Photodetector at Solar-Blind Wavelengths with Ultrahigh Responsivity and Detectivity. <i>ACS Photonics</i> , <b>2021</b> , 8, 2256-2264	6.3	9
4	Temperature dependence of broadband near-infrared luminescence from Ni <sup>2+</sup> -doped Ba <sub>0.5</sub> Sr <sub>0.5</sub> TiO <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 183110	2.5	8
3	Synthesis, properties, and applications of 2D amorphous inorganic materials. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 220901	2.5	6
2	Triboelectric Nanogenerators: Magnetic-Assisted Noncontact Triboelectric Nanogenerator Converting Mechanical Energy into Electricity and Light Emissions (Adv. Mater. 14/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 2843-2843	24	3
1	Terahertz relaxation dynamics of a two-dimensional InSe multilayer. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2