

# Zhibin Yang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32  
papers

2,283  
citations

21  
h-index

33  
g-index

33  
ext. papers

2,798  
ext. citations

12.6  
avg, IF

5.34  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 32 | Large-scale growth of few-layer two-dimensional black phosphorus. <i>Nature Materials</i> , <b>2021</b> , 20, 1203-1209   | 12.9 | 43        |
| 31 | 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         |
| 30 | How Universal Is the Wetting Aging in 2D Materials. <i>Nano Letters</i> , <b>2020</b> , 20, 5670-5677   | 11.5 | 14        |
| 29 | Synthesis, properties, and applications of 2D amorphous inorganic materials. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 220901  | 2.5  | 6         |
| 28 | 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        |
| 27 | 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        |
| 26 | Terahertz relaxation dynamics of a two-dimensional InSe multilayer. <i>Physical Review B</i> , <b>2020</b> , 102,   | 3.3  | 2         |
| 25 | Efficient hole transfer from monolayer WS to ultrathin amorphous black phosphorus. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 236-242   | 10.8 | 19        |
| 24 | 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       |
| 23 | 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        |
| 22 | Centimeter-scale growth of two-dimensional layered high-mobility bismuth films by pulsed laser deposition. <i>Informa Materials</i> , <b>2019</b> , 1, 98-107   | 23.1 | 56        |
| 21 | 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        |
| 20 | 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        |
| 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 | Luminescence in 2D Materials and van der Waals Heterostructures. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1701296   | 8.1  | 45        |
| 17 | Recent Progress in Black-Phosphorus-Based Heterostructures for Device Applications. <i>Small Methods</i> , <b>2018</b> , 2, 1700296   | 12.8 | 39        |
| 16 | Amorphous two-dimensional black phosphorus with exceptional photocarrier transport properties. <i>2D Materials</i> , <b>2017</b> , 4, 025063  | 5.9  | 16        |

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|----|---|------|-----|
| 15 | 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 |
| 14 | Observation of Room-Temperature Magnetoresistance in Monolayer MoS by Ferromagnetic Gating. <i>ACS Nano</i> , <b>2017</b> , 11, 6950-6958   | 16.7 | 48  |
| 13 | 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  |
| 12 | 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 |
| 11 | 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 |
| 10 | 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   |
| 9  | 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 |
| 8  | 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  |
| 7  | 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  |
| 6  | 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  |
| 5  | 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   |
| 4  | 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 |
| 3  | 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 |
| 2  | 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  |
| 1  | 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  |