# Hehai Fang

List of Publications by Year
in descending order

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|---|---|---|---|
| 26<br>papers | 4,017<br>citations | 361413<br>20<br>h-index | 552781<br>26<br>g-index |
| 26<br>all docs | 26<br>docs citations | 26<br>times ranked | 5610<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Progress, Challenges, and Opportunities for 2D Material Based Photodetectors. Advanced Functional Materials, 2019, 29, 1803807. | 14.9 | 884 |
| 2 | Photogating in Low Dimensional Photodetectors. Advanced Science, 2017, 4, 1700323. | 11.2 | 622 |
| 3 | Plasmonic Silicon Quantum Dots Enabled High-Sensitivity Ultrabroadband Photodetection of Graphene-Based Hybrid Phototransistors. ACS Nano, 2017, 11, 9854-9862. | 14.6 | 285 |
| 4 | Tunable Ambipolar Polarization-Sensitive Photodetectors Based on High-Anisotropy $ReSe_2$ Nanosheets. ACS Nano, 2016, 10, 8067-8077. | 14.6 | 276 |
| 5 | Generalized colloidal synthesis of high-quality, two-dimensional cesium lead halide perovskite nanosheets and their applications in photodetectors. Nanoscale, 2016, 8, 13589-13596. | 5.6 | 252 |
| 6 | Recent Progress on Localized Field Enhanced Two‐dimensional Material Photodetectors from Ultraviolet–Visible to Infrared. Small, 2017, 13, 1700894. | 10.0 | 234 |
| 7 | Arrayed Van Der Waals Broadband Detectors for Dual‐Band Detection. Advanced Materials, 2017, 29, 1604439. | 21.0 | 218 |
| 8 | High‐Performance Photovoltaic Detector Based on $MoTe_2$/$MoS_2$ Van der Waals Heterostructure. Small, 2018, 14, 1703293. | 10.0 | 205 |
| 9 | When Nanowires Meet Ultrahigh Ferroelectric Field–High-Performance Full-Depleted Nanowire Photodetectors. Nano Letters, 2016, 16, 2548-2555. | 9.1 | 135 |
| 10 | Visible Light-Assisted High-Performance Mid-Infrared Photodetectors Based on Single InAs Nanowire. Nano Letters, 2016, 16, 6416-6424. | 9.1 | 134 |
| 11 | High‐Sensitivity Floating‐Gate Phototransistors Based on $WS_2$ and $MoS_2$. Advanced Functional Materials, 2016, 26, 6084-6090. | 14.9 | 124 |
| 12 | A Broadband Fluorographene Photodetector. Advanced Materials, 2017, 29, 1700463. | 21.0 | 110 |
| 13 | High‐Performance Ferroelectric Polymer Side‐Gated CdS Nanowire Ultraviolet Photodetectors. Advanced Functional Materials, 2016, 26, 7690-7696. | 14.9 | 107 |
| 14 | High-Performance Near-Infrared Photodetectors Based on p-Type SnX (X = S, Se) Nanowires Grown *via* Chemical Vapor Deposition. ACS Nano, 2018, 12, 7239-7245. | 14.6 | 101 |
| 15 | Optoelectronic Properties of Printed Photogating Carbon Nanotube Thin Film Transistors and Their Application for Light-Stimulated Neuromorphic Devices. ACS Applied Materials &amp; Interfaces, 2019, 11, 12161-12169. | 8.0 | 80 |
| 16 | Etching Techniques in 2D Materials. Advanced Materials Technologies, 2019, 4, 1900064. | 5.8 | 50 |
| 17 | Room-Temperature Single-Photon Detector Based on Single Nanowire. Nano Letters, 2018, 18, 5439-5445. | 9.1 | 42 |
| 18 | Novel Type‐II InAs/AlSb Core‐Shell Nanowires and Their Enhanced Negative Photocurrent for Efficient Photodetection. Advanced Functional Materials, 2018, 28, 1705382. | 14.9 | 36 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | SWCNT–MoS$_2$–SWCNT Vertical Point Heterostructures. Advanced Materials, 2017, 29, 1604469. | 21.0 | 32 |
| 20 | Nonlocal Response in Infrared Detector with Semiconducting Carbon Nanotubes and Graphdiyne. Advanced Science, 2017, 4, 1700472. | 11.2 | 29 |
| 21 | Significant Enhancement of Single-Walled Carbon Nanotube Based Infrared Photodetector Using PbS Quantum Dots. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-8. | 2.9 | 19 |
| 22 | Global Photocurrent Generation in Phototransistors Based on Single–Walled Carbon Nanotubes toward Highly Sensitive Infrared Detection. Advanced Optical Materials, 2019, 7, 1900597. | 7.3 | 15 |
| 23 | Ambipolar and Robust WSe 2 Field–Effect Transistors Utilizing Self–Assembled Edge Oxides. Advanced Materials Interfaces, 2020, 7, 1901628. | 3.7 | 11 |
| 24 | Hybrid heterojunctions based on 2D materials and 3D thin-films for high-performance photodetectors. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1. | 5.1 | 8 |
| 25 | Optoelectronics: High–Performance Photovoltaic Detector Based on MoTe$_2$/MoS$_2$ Van der Waals Heterostructure (Small 9/2018). Small, 2018, 14, 1870038. | 10.0 | 7 |
| 26 | Photodetectors: A Broadband Fluorographene Photodetector (Adv. Mater. 22/2017). Advanced Materials, 2017, 29, . | 21.0 | 1 |