

Hehai Fang

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

4,017
citations

361413

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552781

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docs citations

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5610
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Ambipolar and Robust WSe ₂ Field-Effect Transistors Utilizing Self-Assembled Edge Oxides. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901628. | 3.7 | 11 |
| 2 | Global Photocurrent Generation in Phototransistors Based on Single-Walled Carbon Nanotubes toward Highly Sensitive Infrared Detection. <i>Advanced Optical Materials</i> , 2019, 7, 1900597. | 7.3 | 15 |
| 3 | Etching Techniques in 2D Materials. <i>Advanced Materials Technologies</i> , 2019, 4, 1900064. | 5.8 | 50 |
| 4 | Optoelectronic Properties of Printed Photogating Carbon Nanotube Thin Film Transistors and Their Application for Light-Stimulated Neuromorphic Devices. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12161-12169. | 8.0 | 80 |
| 5 | Progress, Challenges, and Opportunities for 2D Material Based Photodetectors. <i>Advanced Functional Materials</i> , 2019, 29, 1803807. | 14.9 | 884 |
| 6 | Optoelectronics: High-Performance Photovoltaic Detector Based on MoTe ₂ /MoS ₂ Van der Waals Heterostructure (Small 9/2018). <i>Small</i> , 2018, 14, 1870038. | 10.0 | 7 |
| 7 | High-Performance Photovoltaic Detector Based on MoTe ₂ /MoS ₂ Van der Waals Heterostructure. <i>Small</i> , 2018, 14, 1703293. | 10.0 | 205 |
| 8 | Novel Type-II InAs/AlSb Core-Shell Nanowires and Their Enhanced Negative Photocurrent for Efficient Photodetection. <i>Advanced Functional Materials</i> , 2018, 28, 1705382. | 14.9 | 36 |
| 9 | Significant Enhancement of Single-Walled Carbon Nanotube Based Infrared Photodetector Using PbS Quantum Dots. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-8. | 2.9 | 19 |
| 10 | Room-Temperature Single-Photon Detector Based on Single Nanowire. <i>Nano Letters</i> , 2018, 18, 5439-5445. | 9.1 | 42 |
| 11 | High-Performance Near-Infrared Photodetectors Based on p-Type SnX (X = S, Se) Nanowires Grown <i>in situ</i> via Chemical Vapor Deposition. <i>ACS Nano</i> , 2018, 12, 7239-7245. | 14.6 | 101 |
| 12 | Arrayed Van Der Waals Broadband Detectors for Dual-Band Detection. <i>Advanced Materials</i> , 2017, 29, 1604439. | 21.0 | 218 |
| 13 | Photodetectors: A Broadband Fluorographene Photodetector (<i>Adv. Mater.</i> 22/2017). <i>Advanced Materials</i> , 2017, 29, . | 21.0 | 1 |
| 14 | Recent Progress on Localized Field Enhanced Two-Dimensional Material Photodetectors from Ultraviolet-Visible to Infrared. <i>Small</i> , 2017, 13, 1700894. | 10.0 | 234 |
| 15 | A Broadband Fluorographene Photodetector. <i>Advanced Materials</i> , 2017, 29, 1700463. | 21.0 | 110 |
| 16 | SWCNT-MoS ₂ -SWCNT Vertical Point Heterostructures. <i>Advanced Materials</i> , 2017, 29, 1604469. | 21.0 | 32 |
| 17 | Hybrid heterojunctions based on 2D materials and 3D thin-films for high-performance photodetectors. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1. | 5.1 | 8 |
| 18 | Photogating in Low Dimensional Photodetectors. <i>Advanced Science</i> , 2017, 4, 1700323. | 11.2 | 622 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Plasmonic Silicon Quantum Dots Enabled High-Sensitivity Ultrabroadband Photodetection of Graphene-Based Hybrid Phototransistors. ACS Nano, 2017, 11, 9854-9862. | 14.6 | 285 |
| 20 | Nonlocal Response in Infrared Detector with Semiconducting Carbon Nanotubes and Graphdiyne. Advanced Science, 2017, 4, 1700472. | 11.2 | 29 |
| 21 | High-Sensitivity Floating-Gate Phototransistors Based on WS ₂ and MoS ₂ . Advanced Functional Materials, 2016, 26, 6084-6090. | 14.9 | 124 |
| 22 | Visible Light-Assisted High-Performance Mid-Infrared Photodetectors Based on Single InAs Nanowire. Nano Letters, 2016, 16, 6416-6424. | 9.1 | 134 |
| 23 | Tunable Ambipolar Polarization-Sensitive Photodetectors Based on High-Anisotropy ReSe ₂ Nanosheets. ACS Nano, 2016, 10, 8067-8077. | 14.6 | 276 |
| 24 | High-Performance Ferroelectric Polymer Side-Gated CdS Nanowire Ultraviolet Photodetectors. Advanced Functional Materials, 2016, 26, 7690-7696. | 14.9 | 107 |
| 25 | 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 |
| 26 | When Nanowires Meet Ultrahigh Ferroelectric Field—High-Performance Full-Depleted Nanowire Photodetectors. Nano Letters, 2016, 16, 2548-2555. | 9.1 | 135 |