

Jun Wang

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,099
citations

430442

18
h-index

414034

32
g-index

35
all docs

35
docs citations

35
times ranked

1455
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Light-Induced Synaptic Transistor with High PPF Feature for Artificial Visual Perception System Application. <i>Advanced Functional Materials</i> , 2022, 32, . | 7.8 | 71 |
| 2 | Epitaxial Topological Insulator Bi ₂ Te ₃ for Fast Visible to Mid-Infrared Heterojunction Photodetector by Graphene As Charge Collection Medium. <i>ACS Nano</i> , 2022, 16, 4851-4860. | 7.3 | 35 |
| 3 | Near-infrared heterojunction field modulated phototransistors with distinct photodetection/photostorage switching features for artificial visuals. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9198-9207. | 2.7 | 3 |
| 4 | Recent Progress in 2D Inorganic/Organic Charge Transfer Heterojunction Photodetectors. <i>Advanced Functional Materials</i> , 2022, 32, . | 7.8 | 23 |
| 5 | Type-III organic/two-dimensional multi-layered phototransistors with promoted operation speed at the communication band. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13963-13971. | 2.7 | 6 |
| 6 | High-Performance Photodetector based on a 3D Dirac Semimetal Cd ₃ As ₂ /Tungsten Disulfide (WS ₂) van der Waals Heterojunction. <i>Advanced Photonics Research</i> , 2021, 2, 2000194. | 1.7 | 7 |
| 7 | Efficient Organic Upconversion Devices for Low Energy Consumption and High-Quality Noninvasive Imaging. <i>Advanced Materials</i> , 2021, 33, e2102812. | 11.1 | 19 |
| 8 | Weyl Semiconductor Te/Sb ₂ Se ₃ Heterostructure for Broadband Photodetection and Its Binary Photoresponse by C ₆₀ as Charge-Regulation Medium. <i>Advanced Optical Materials</i> , 2021, 9, 2101256. | 3.6 | 12 |
| 9 | High responsivity and fast UV-visible-short-wavelength IR photodetector based on Cd ₃ As ₂ /MoS ₂ heterojunction. <i>Nanotechnology</i> , 2020, 31, 064001. | 1.3 | 23 |
| 10 | A 3D topological Dirac semimetal/MoO ₃ thin film heterojunction infrared photodetector with a current reversal phenomenon. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16024-16031. | 2.7 | 10 |
| 11 | Light-modulated vertical heterojunction phototransistors with distinct logical photocurrents. <i>Light: Science and Applications</i> , 2020, 9, 167. | 7.7 | 40 |
| 12 | Excellent-Performance C ₆₀ /Graphene/SWCNT Heterojunction with Light-Controlled Enhancement of Photocurrent. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4276-4283. | 3.2 | 10 |
| 13 | Excellent performance in vertical graphene-C60-graphene heterojunction phototransistors with a tunable bi-directionality. <i>Carbon</i> , 2020, 162, 375-381. | 5.4 | 17 |
| 14 | Ultrahigh Stability 3D TI Bi ₂ Se ₃ /MoO ₃ Thin Film Heterojunction Infrared Photodetector at Optical Communication Waveband. <i>Advanced Functional Materials</i> , 2020, 30, 1909659. | 7.8 | 50 |
| 15 | Silicon-based PbS-CQDs infrared photodetector with high sensitivity and fast response. <i>Nanotechnology</i> , 2020, 31, 485206. | 1.3 | 17 |
| 16 | Ultraviolet to Long-Wave Infrared Photodetectors Based on a Three-Dimensional Dirac Semimetal/Organic Thin Film Heterojunction. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3914-3921. | 2.1 | 29 |
| 17 | Rigorous coupled-wave analysis of absorption enhancement in vertically illuminated silicon photodiodes with photon-trapping hole arrays. <i>Nanophotonics</i> , 2019, 8, 1747-1756. | 2.9 | 9 |
| 18 | Polarimetric Three-Dimensional Topological Insulators/Organics Thin Film Heterojunction Photodetectors. <i>ACS Nano</i> , 2019, 13, 10810-10817. | 7.3 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Nitrogen analogues of Chichibabin's and Müller's hydrocarbons with small singlet-triplet energy gaps. <i>Chemical Communications</i> , 2019, 55, 7812-7815. | 2.2 | 29 |
| 20 | Zero-Bias Visible to Near-Infrared Horizontal p-n-p TiO ₂ Nanotubes Doped Monolayer Graphene Photodetector. <i>Molecules</i> , 2019, 24, 1870. | 1.7 | 12 |
| 21 | Design strategies for two-dimensional material photodetectors to enhance device performance. <i>Informa Mater</i> , 2019, 1, 33-53. | 8.5 | 158 |
| 22 | Three-Dimensional Topological Insulator Bi ₂ Te ₃ /Organic Thin Film Heterojunction Photodetector with Fast and Wideband Response from 450 to 3500 Nanometers. <i>ACS Nano</i> , 2019, 13, 755-763. | 7.3 | 68 |
| 23 | Polarimetric Vis-NIR photodetector based on self-aligned single-walled carbon nanotubes. <i>Carbon</i> , 2019, 143, 844-850. | 5.4 | 18 |
| 24 | Fabrication of hexagonal star-shaped and ring-shaped patterns arrays by Mie resonance sphere-lens-lithography. <i>Applied Surface Science</i> , 2018, 440, 378-385. | 3.1 | 14 |
| 25 | High-Responsivity Photodetectors Based on Formamidinium Lead Halide Perovskite Quantum Dot-Graphene Hybrid. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700304. | 1.2 | 46 |
| 26 | Optical Properties and Sensing Performance of Au/SiO ₂ Triangles Arrays on Reflection Au Layer. <i>Nanoscale Research Letters</i> , 2018, 13, 335. | 3.1 | 12 |
| 27 | High thermochromic performance of Fe/Mg co-doped VO ₂ thin films for smart window applications. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6502-6509. | 2.7 | 72 |
| 28 | Enhanced Performance of Wideband Room Temperature Photodetector Based on Cd ₃ As ₂ Thin Film/Pentacene Heterojunction. <i>ACS Photonics</i> , 2018, 5, 3438-3445. | 3.2 | 57 |
| 29 | Integration of green CuInS ₂ /ZnS quantum dots for high-efficiency light-emitting diodes and high-responsivity photodetectors. <i>Optical Materials Express</i> , 2018, 8, 314. | 1.6 | 22 |
| 30 | Spectrally and Spatially Tunable Terahertz Metasurface Lens Based on Graphene Surface Plasmons. <i>IEEE Photonics Journal</i> , 2018, 10, 1-8. | 1.0 | 25 |
| 31 | High-performance Schottky heterojunction photodetector with directly grown graphene nanowalls as electrodes. <i>Nanoscale</i> , 2017, 9, 6020-6025. | 2.8 | 77 |
| 32 | Spectral photovoltaic response of graphene-silicon heterojunction. <i>Applied Physics Letters</i> , 2017, 111, . | 1.5 | 9 |
| 33 | Visible to near-infrared photodetectors based on MoS ₂ vertical Schottky junctions. <i>Nanotechnology</i> , 2017, 28, 484002. | 1.3 | 73 |
| 34 | Deciphering the photocurrent polarity of Bi ₂ O ₂ Se heterojunction phototransistors to enhance detection performance. <i>Journal of Materials Chemistry C</i> , 0, . | 2.7 | 6 |