

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	Design strategies for two-dimensional material photodetectors to enhance device performance. <i>Informa Mater</i> , 2019, 1, 33-53.	8.5	158
2	High-performance Schottky heterojunction photodetector with directly grown graphene nanowalls as electrodes. <i>Nanoscale</i> , 2017, 9, 6020-6025.	2.8	77
3	Visible to near-infrared photodetectors based on MoS ₂ vertical Schottky junctions. <i>Nanotechnology</i> , 2017, 28, 484002.	1.3	73
4	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
5	Light-stimulated Synaptic Transistor with High PPF Feature for Artificial Visual Perception System Application. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	71
6	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
7	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
8	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
9	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
10	Light-modulated vertical heterojunction phototransistors with distinct logical photocurrents. <i>Light: Science and Applications</i> , 2020, 9, 167.	7.7	40
11	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
12	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
13	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
14	Spectrally and Spatially Tunable Terahertz Metasurface Lens Based on Graphene Surface Plasmons. <i>IEEE Photonics Journal</i> , 2018, 10, 1-8.	1.0	25
15	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
16	Recent Progress in 2D Inorganic/Organic Charge Transfer Heterojunction Photodetectors. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	23
17	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
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	Efficient Organic Upconversion Devices for Low Energy Consumption and High-Quality Noninvasive Imaging. <i>Advanced Materials</i> , 2021, 33, e2102812.	11.1	19
20	Polarimetric Vis-NIR photodetector based on self-aligned single-walled carbon nanotubes. <i>Carbon</i> , 2019, 143, 844-850.	5.4	18
21	Excellent performance in vertical graphene-C60-graphene heterojunction phototransistors with a tunable bi-directionality. <i>Carbon</i> , 2020, 162, 375-381.	5.4	17
22	Silicon-based PbS-CQDs infrared photodetector with high sensitivity and fast response. <i>Nanotechnology</i> , 2020, 31, 485206.	1.3	17
23	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
24	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
25	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
26	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
27	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
28	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
29	Spectral photovoltaic response of graphene-silicon heterojunction. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	9
30	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
31	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
32	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
33	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
34	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