

Xiaosheng Fang

List of Publications by Year in descending order

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175
papers

23,757
citations

4942

84
h-index

7496

151
g-index

181
all docs

181
docs citations

181
times ranked

17998
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Switch type PANI/ZnO core-shell microwire heterojunction for UV photodetection. Journal of Materials Science and Technology, 2022, 105, 259-265. | 5.6 | 230 |
| 2 | Ultrathin 2D NbWO ₆ Perovskite Semiconductor Based Gas Sensors with Ultrahigh Selectivity under Low Working Temperature. Advanced Materials, 2022, 34, e2104958. | 11.1 | 46 |
| 3 | Doping Concentration Influenced Pyro-Phototronic Effect in Self-Powered Photodetector Based on Ga-Incorporated ZnO Microwire/p ⁺ -GaN Heterojunction. Advanced Optical Materials, 2022, 10, 2101851. | 3.6 | 29 |
| 4 | A transparent, self-powered photodetector based on p-CuI/n-TiO ₂ heterojunction film with high on/off ratio. Nanotechnology, 2022, 33, 105202. | 1.3 | 20 |
| 5 | Doping Concentration Influenced Pyro-Phototronic Effect in Self-Powered Photodetector Based on Ga-Incorporated ZnO Microwire/p ⁺ -GaN Heterojunction (Advanced Optical Materials) Tj ETQq1 1 0.784314 1gBT /Over | 3.6 | 29 |
| 6 | Polarization Sensitive Solar-Blind Ultraviolet Photodetectors Based on Ultrawide Bandgap KNb ₃ O ₈ Nanobelt with Fringe-Like Atomic Lattice. Advanced Functional Materials, 2022, 32, . | 7.8 | 41 |
| 7 | Application of Nanostructured TiO ₂ in UV Photodetectors: A Review. Advanced Materials, 2022, 34, e2109083. | 11.1 | 145 |
| 8 | Perovskite-Type 2D Materials for High-Performance Photodetectors. Journal of Physical Chemistry Letters, 2022, 13, 1215-1225. | 2.1 | 62 |
| 9 | Work-Function-Tunable MXenes Electrodes to Optimize p-CsCu ₂ I ₃ /n-Ca ₂ Nb ₃ O ₁₀ Heterojunction Photodetectors for Image Sensing and Logic Electronics. Advanced Functional Materials, 2022, 32, . | 7.8 | 58 |
| 10 | Pine-Branch-Like SnO ₂ /ZnO Heterostructure with Suppressed Dark Current and Enhanced On/Off Ratio for Visible-Blind UV Imaging. Advanced Electronic Materials, 2022, 8, . | 2.6 | 8 |
| 11 | Room-Temperature Crystallization of Ultralong (~3.5Åm) CsCu ₂ I ₃ Microbelt to Suppress Carrier Recombination for High-Performance UV Heterojunction Photodetector. Advanced Optical Materials, 2022, 10, . | 3.6 | 10 |
| 12 | Tailoring the interface assembly of mesoporous TiO ₂ on BTO film toward high-performance UV photodetectors. Journal of Materials Chemistry C, 2022, 10, 9035-9043. | 2.7 | 14 |
| 13 | Integration of filter membrane and Ca ₂ Nb ₃ O ₁₀ nanosheets for high performance flexible UV photodetectors. Journal of Materials Science and Technology, 2022, 129, 108-114. | 5.6 | 20 |
| 14 | Flexible 2D Cu Metal: Organic Framework@MXene Film Electrode with Excellent Durability for Highly Selective Electrocatalytic NH ₃ Synthesis. Research, 2022, 2022, . | 2.8 | 16 |
| 15 | An All-Organic Self-Powered Photodetector with Ultraflexible Dual-Polarity Output for Biosignal Detection. Advanced Materials, 2022, 34, . | 11.1 | 70 |
| 16 | Dual-Band Perovskite Bulk Heterojunction Self-Powered Photodetector for Encrypted Communication and Imaging. Advanced Optical Materials, 2022, 10, . | 3.6 | 33 |
| 17 | Low-Dimensional Metal Halide Perovskite Photodetectors. Advanced Materials, 2021, 33, e2003309. | 11.1 | 319 |
| 18 | Ultralight and robust carbon nanofiber aerogels for advanced energy storage. Journal of Materials Chemistry A, 2021, 9, 900-907. | 5.2 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | High-Performance Two-Dimensional Perovskite $\text{Ca}_2\text{Nb}_3\text{O}_{10}$ UV Photodetectors. <i>Nano Letters</i> , 2021, 21, 382-388. | 4.5 | 98 |
| 20 | Recent advances toward environment-friendly photodetectors based on lead-free metal halide perovskites and perovskite derivatives. <i>Materials Horizons</i> , 2021, 8, 1367-1389. | 6.4 | 46 |
| 21 | Flexible electrocatalysts: interfacial-assembly of iron nanoparticles for nitrate reduction. <i>Chemical Communications</i> , 2021, 57, 6740-6743. | 2.2 | 15 |
| 22 | Two-dimensional Ti_3C_2 MXene-based nanostructures for emerging optoelectronic applications. <i>Materials Horizons</i> , 2021, 8, 2929-2963. | 6.4 | 37 |
| 23 | Fabrication of 1D Te/2D ReS_2 Mixed-Dimensional van der Waals <i>p-n</i> Heterojunction for High-Performance Phototransistor. <i>ACS Nano</i> , 2021, 15, 3241-3250. | 7.3 | 91 |
| 24 | Enhanced Electrical Properties of Lithography-Free Fabricated MoS_2 Field Effect Transistors with Chromium Contacts. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2705-2711. | 2.1 | 26 |
| 25 | A Paper-Based Wearable Photodetector for Simultaneous UV Intensity and Dosage Measurement. <i>Advanced Functional Materials</i> , 2021, 31, 2100026. | 7.8 | 58 |
| 26 | Boosted Responsivity and Tunable Spectral Response in Bi^{3+} Substituted 2D $\text{Ca}_2\text{Nb}_3\text{Ta}_x\text{O}_{10}$ Perovskite Photodetectors. <i>Advanced Functional Materials</i> , 2021, 31, 2101480. | 7.8 | 29 |
| 27 | Interface Engineering Ti_3C_2 MXene/Silicon Self-Powered Photodetectors with High Responsivity and Detectivity for Weak Light Applications. <i>Small</i> , 2021, 17, e2100439. | 5.2 | 61 |
| 28 | Facile fabrication of heterostructure with p-BiOCl nanoflakes and n-ZnO thin film for UV photodetectors. <i>Journal of Semiconductors</i> , 2021, 42, 052301. | 2.0 | 29 |
| 29 | Self-Powered MXene/GaN van der Waals Heterojunction Ultraviolet Photodiodes with Superhigh Efficiency and Stable Current Outputs. <i>Advanced Materials</i> , 2021, 33, e2101059. | 11.1 | 302 |
| 30 | Highly Crystallized Tin Dioxide Microwires toward Ultraviolet Photodetector and Humidity Sensor with High Performances. <i>Advanced Electronic Materials</i> , 2021, 7, 2100706. | 2.6 | 16 |
| 31 | Electrocatalytic nitrate/nitrite reduction to ammonia synthesis using metal nanocatalysts and bio-inspired metalloenzymes. <i>Nano Energy</i> , 2021, 86, 106088. | 8.2 | 136 |
| 32 | Dramatic Responsivity Enhancement Through Concentrated H_2SO_4 Treatment on PEDOT:PSS/ TiO_2 Heterojunction Fibrous Photodetectors. <i>Small</i> , 2021, 17, e2101674. | 5.2 | 15 |
| 33 | Supersaturation-Controlled Growth of Monolithically Integrated Lead-Free Halide Perovskite Single-Crystalline Thin Film for High-Sensitivity Photodetectors. <i>Advanced Materials</i> , 2021, 33, e2103010. | 11.1 | 114 |
| 34 | Self-powered UV photodetectors based on ZnO nanomaterials. <i>Applied Physics Reviews</i> , 2021, 8, . | 5.5 | 167 |
| 35 | High performance polarization-sensitive self-powered imaging photodetectors based on a p-Te/n-MoSe ₂ van der Waals heterojunction with strong interlayer transition. <i>Materials Horizons</i> , 2021, 8, 3113-3123. | 6.4 | 61 |
| 36 | Supersaturation-Controlled Growth of Monolithically Integrated Lead-Free Halide Perovskite Single-Crystalline Thin Film for High-Sensitivity Photodetectors (Adv. Mater. 41/2021). <i>Advanced Materials</i> , 2021, 33, 2170324. | 11.1 | 16 |

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| 37 | Ultrafast Speed, Dark Current Suppression, and Self-Powered Enhancement in TiO ₂ -Based Ultraviolet Photodetectors by Organic Layers and Ag Nanowires Regulation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9912-9918. | 2.1 | 79 |
| 38 | Amorphous MoS ₂ /h-BN ₂ Nanohybrids: Synthesis and Dye Photodegradation. <i>Nanomaterials</i> , 2021, 11, 3232. | 1.9 | 6 |
| 39 | Fast Response, Highly Air-Stable, and Water-Resistant Organic Photodetectors Based on a Single-Crystal Pt Complex. <i>Advanced Materials</i> , 2020, 32, e1904634. | 11.1 | 56 |
| 40 | Highly stable and spectrum-selective ultraviolet photodetectors based on lead-free copper-based perovskites. <i>Materials Horizons</i> , 2020, 7, 530-540. | 6.4 | 164 |
| 41 | Self-Polarized BaTiO ₃ for Greatly Enhanced Performance of ZnO UV Photodetector by Regulating the Distribution of Electron Concentration. <i>Advanced Functional Materials</i> , 2020, 30, 1907650. | 7.8 | 74 |
| 42 | Cross-Bar SnO ₂ -NiO Nanofiber Array-Based Transparent Photodetectors with High Detectivity. <i>Advanced Electronic Materials</i> , 2020, 6, 1901048. | 2.6 | 68 |
| 43 | Photo/Electrochemical Applications of Metal Sulfide/TiO ₂ Heterostructures. <i>Advanced Energy Materials</i> , 2020, 10, 1902355. | 10.2 | 236 |
| 44 | 2D Perovskite Sr ₂ Nb ₃ O ₁₀ for High-Performance UV Photodetectors. <i>Advanced Materials</i> , 2020, 32, e1905443. | 11.1 | 210 |
| 45 | CdS/CdSO ₄ Nanoflower-Based Photodetector with Enhanced Photoelectric Performances. <i>ACS Applied Nano Materials</i> , 2020, 3, 10190-10199. | 2.4 | 37 |
| 46 | Humidity-Dependent Characteristics of Few-Layer MoS ₂ Field Effect Transistors. <i>Advanced Electronic Materials</i> , 2020, 6, 2000659. | 2.6 | 23 |
| 47 | Highly UV Resistant Inch-Scale Hybrid Perovskite Quantum Dot Papers. <i>Advanced Science</i> , 2020, 7, 1902439. | 5.6 | 33 |
| 48 | Mechanically Compatible UV Photodetectors Based on Electrospun Free-Standing Y ³⁺ -Doped TiO ₂ Nanofibrous Membranes with Enhanced Flexibility. <i>Advanced Functional Materials</i> , 2020, 30, 2005291. | 7.8 | 51 |
| 49 | Crystallography-derived optoelectronic and photovoltaic properties of CsPbBr ₃ perovskite single crystals as revealed by in situ transmission electron microscopy. <i>Applied Materials Today</i> , 2020, 20, 100788. | 2.3 | 7 |
| 50 | Improved Photoelectric Performance of UV Photodetector Based on ZnO Nanoparticle-Decorated BiOCl Nanosheet Arrays onto PDMS Substrate: The Heterojunction and Ti ₃ C ₂ T _x MXene Conduction Layer. <i>Advanced Electronic Materials</i> , 2020, 6, 2000168. | 2.6 | 94 |
| 51 | Facet-Dependent, Fast Response, and Broadband Photodetector Based on Highly Stable All-Inorganic CsCu ₂ Cl ₃ Single Crystal with 1D Electronic Structure. <i>Advanced Functional Materials</i> , 2020, 30, 2002634. | 7.8 | 126 |
| 52 | Wearable and Ultrasensitive Strain Sensor Based on High-Quality GaN pn Junction Microwire Arrays. <i>Small</i> , 2020, 16, e1907461. | 5.2 | 35 |
| 53 | Recent Progress of Heterojunction Ultraviolet Photodetectors: Materials, Integrations, and Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1909909. | 7.8 | 264 |
| 54 | Organic Semiconductors: Fast Response, Highly Air-Stable, and Water-Resistant Organic Photodetectors Based on a Single-Crystal Pt Complex (Adv. Mater. 2/2020). <i>Advanced Materials</i> , 2020, 32, 2070015. | 11.1 | 2 |

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| 55 | Solution-processed one-dimensional CsCu ₂ I ₃ nanowires for polarization-sensitive and flexible ultraviolet photodetectors. <i>Materials Horizons</i> , 2020, 7, 1613-1622. | 6.4 | 120 |
| 56 | Self-Powered Flexible TiO ₂ Fibrous Photodetectors: Heterojunction with P3HT and Boosted Responsivity and Selectivity by Au Nanoparticles. <i>Advanced Functional Materials</i> , 2020, 30, 2001604. | 7.8 | 81 |
| 57 | Designed growth and patterning of perovskite nanowires for lasing and wide color gamut phosphors with long-term stability. <i>Nano Energy</i> , 2020, 73, 104801. | 8.2 | 53 |
| 58 | Bio-inspired transparent MXene electrodes for flexible UV photodetectors. <i>Materials Horizons</i> , 2020, 7, 1828-1833. | 6.4 | 134 |
| 59 | High-Performance Trifunctional Electrocatalysts Based on FeCo/Co ₂ P Hybrid Nanoparticles for Zinc-Air Battery and Self-Powered Overall Water Splitting. <i>Advanced Energy Materials</i> , 2020, 10, 1903854. | 10.2 | 259 |
| 60 | Orthogonal Lithography for Halide Perovskite Optoelectronic Nanodevices. <i>ACS Nano</i> , 2019, 13, 1168-1176. | 7.3 | 90 |
| 61 | Thermal stability of CsPbBr ₃ perovskite as revealed by <i>in situ</i> transmission electron microscopy. <i>APL Materials</i> , 2019, 7, . | 2.2 | 39 |
| 62 | High Responsivity and High Rejection Ratio of Self-Powered Solar-Blind Ultraviolet Photodetector Based on PEDOT:PSS/I ² -Ga ₂ O ₃ Organic/Inorganic p-n Junction. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6850-6856. | 2.1 | 113 |
| 63 | Transparent Schottky Photodiode Based on AgNi NWs/SrTiO ₃ Contact with an Ultrafast Photoresponse to Short-Wavelength Blue Light and UV-Shielding Effect. <i>Advanced Functional Materials</i> , 2019, 29, 1905923. | 7.8 | 40 |
| 64 | Tunable self-powered SrTiO ₃ photodetectors based on varying CuS-ZnS nanocomposite film (p-CuZnS, p-CuS, and n-ZnS). <i>Informa Mater</i> , 2019, 1, 542-551. | 8.5 | 44 |
| 65 | Low-cost writing method for self-powered paper-based UV photodetectors utilizing Te/TiO ₂ and Te/ZnO heterojunctions. <i>Nanoscale Horizons</i> , 2019, 4, 452-456. | 4.1 | 64 |
| 66 | Solar Cells: MXene-Contacted Silicon Solar Cells with 11.5% Efficiency (Adv. Energy Mater. 22/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970083. | 10.2 | 7 |
| 67 | Solution-Processed Transparent Sn ⁴⁺ -Doped CuI Hybrid Photodetectors with Enhanced Performances. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900669. | 1.9 | 36 |
| 68 | Transparent Electronics: Solution-Processed Self-Powered Transparent Ultraviolet Photodetectors with Ultrafast Response Speed for High-Performance Communication System (Adv. Funct. Mater.) <i>Tj ETQq0 0 0 rgBT /Overlck 10 Tf 5</i> | | |
| 69 | Millimeter-Sized Single-Crystal CsPbBr ₃ /CuI Heterojunction for High-Performance Self-Powered Photodetector. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2400-2407. | 2.1 | 99 |
| 70 | MXene-Contacted Silicon Solar Cells with 11.5% Efficiency. <i>Advanced Energy Materials</i> , 2019, 9, 1900180. | 10.2 | 161 |
| 71 | On-Chip Supercapacitors: All-Solid-State On-Chip Supercapacitors Based on Free-Standing 4<i>H</i>-SiC Nanowire Arrays (Adv. Energy Mater. 17/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970060. | 10.2 | 3 |
| 72 | All-Solid-State On-Chip Supercapacitors Based on Free-Standing 4<i>H</i>-SiC Nanowire Arrays. <i>Advanced Energy Materials</i> , 2019, 9, 1900073. | 10.2 | 32 |

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| 73 | Silicon-compatible Photodetectors: Trends to Monolithically Integrate Photosensors with Chip Technology. <i>Advanced Functional Materials</i> , 2019, 29, 1808182. | 7.8 | 198 |
| 74 | Self-Powered Dual-Color UV-green Photodetectors Based on SnO ₂ Millimeter Wire and Microwires/CsPbBr ₃ Particle Heterojunctions. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 836-841. | 2.1 | 190 |
| 75 | Materials and Designs for Wearable Photodetectors. <i>Advanced Materials</i> , 2019, 31, e1808138. | 11.1 | 279 |
| 76 | Solution-processed Self-powered Transparent Ultraviolet Photodetectors with Ultrafast Response Speed for High-performance Communication System. <i>Advanced Functional Materials</i> , 2019, 29, 1809013. | 7.8 | 123 |
| 77 | Transparent Schottky Photodiodes: Transparent Schottky Photodiode Based on AgNi NWs/SrTiO ₃ Contact with an Ultrafast Photoresponse to Short-wavelength Blue Light and UV-shielding Effect (<i>Adv. Funct. Mater.</i> 46/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970319. | 7.8 | 1 |
| 78 | Structural evolution of Ag/BN hybrids via a polyol-assisted fabrication process and their catalytic activity in CO oxidation. <i>Catalysis Science and Technology</i> , 2019, 9, 6460-6470. | 2.1 | 7 |
| 79 | A wearable helical organic-inorganic photodetector with thermoelectric generators as the power source. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13097-13103. | 2.7 | 41 |
| 80 | CsPbI ₃ Nanotube Photodetectors with High Detectivity. <i>Small</i> , 2019, 15, e1905253. | 5.2 | 41 |
| 81 | Constructing the Band Alignment of Graphitic Carbon Nitride (g-C ₃ N ₄)/Copper(I) Oxide (Cu ₂ O) Composites by Adjusting the Contact Facet for Superior Photocatalytic Activity. <i>ACS Applied Energy Materials</i> , 2019, 2, 1803-1811. | 2.5 | 29 |
| 82 | From nanofibers to ordered ZnO/NiO heterojunction arrays for self-powered and transparent UV photodetectors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 223-229. | 2.7 | 245 |
| 83 | High-performance SiC Nanobelt Photodetectors with Long-term Stability Against 300 °C up to 180 Days. <i>Advanced Functional Materials</i> , 2019, 29, 1806250. | 7.8 | 54 |
| 84 | Enhancing the Photoelectric Performance of Photodetectors Based on Metal Oxide Semiconductors by Charge-carrier Engineering. <i>Advanced Functional Materials</i> , 2019, 29, 1807672. | 7.8 | 313 |
| 85 | Efficiency enhancement of TiO ₂ self-powered UV photodetectors using a transparent Ag nanowire electrode. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3334-3340. | 2.7 | 71 |
| 86 | Three-dimensional helical inorganic thermoelectric generators and photodetectors for stretchable and wearable electronic devices. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4866-4872. | 2.7 | 63 |
| 87 | Piezo-phototronic Effect Modulated Deep UV Photodetector Based on ZnO-Ga ₂ O ₃ Heterojunction Microwire. <i>Advanced Functional Materials</i> , 2018, 28, 1706379. | 7.8 | 126 |
| 88 | Novel Transparent and Self-powered UV Photodetector Based on Crossed ZnO Nanofiber Array Homo Junction. <i>Small</i> , 2018, 14, e1703754. | 5.2 | 332 |
| 89 | High Performance BiOCl Nanosheets/TiO ₂ Nanotube Arrays Heterojunction UV Photodetector: The Influences of Self-induced Inner Electric Fields in the BiOCl Nanosheets. <i>Advanced Functional Materials</i> , 2018, 28, 1707178. | 7.8 | 337 |
| 90 | Solution-processed Transparent Self-powered p-CuS/n-ZnO UV Photodiode. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1700381. | 1.2 | 54 |

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| 91 | Size-Controlled Graphene Nanodot Arrays/ZnO Hybrids for High-Performance UV Photodetectors. <i>Advanced Science</i> , 2018, 5, 1700334. | 5.6 | 70 |
| 92 | Rose-like CuS microflowers and their enhanced visible-light photocatalytic performance. <i>CrystEngComm</i> , 2018, 20, 6529-6537. | 1.3 | 24 |
| 93 | A Real-Time Wearable UV-Radiation Monitor based on a High-Performance p-CuZnS/n-TiO_2 Photodetector. <i>Advanced Materials</i> , 2018, 30, e1803165. | 11.1 | 300 |
| 94 | Photodetectors: Design Principles and Material Engineering of ZnS for Optoelectronic Devices and Catalysis (<i>Adv. Funct. Mater.</i> 36/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870256. | 7.8 | 4 |
| 95 | Novel Route to Fe-Based Cathode as an Efficient Bifunctional Catalysts for Rechargeable Zn-Air Battery. <i>Advanced Energy Materials</i> , 2018, 8, 1800955. | 10.2 | 146 |
| 96 | Self-Powered $\text{n-SnO}_2/\text{p-CuZnS}$ Core-Shell Microwire UV Photodetector with Optimized Performance. <i>Advanced Optical Materials</i> , 2018, 6, 1800213. | 3.6 | 83 |
| 97 | Design Principles and Material Engineering of ZnS for Optoelectronic Devices and Catalysis. <i>Advanced Functional Materials</i> , 2018, 28, 1802029. | 7.8 | 77 |
| 98 | Back-to-back symmetric Schottky type UVA photodetector based on ternary alloy BeZnO. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7776-7782. | 2.7 | 21 |
| 99 | High-Performance Silicon-Compatible Large-Area UV-to-Visible Broadband Photodetector Based on Integrated Lattice-Matched Type II Se/n-Si Heterojunctions. <i>Nano Letters</i> , 2018, 18, 4697-4703. | 4.5 | 212 |
| 100 | UV Photodetectors Based on BiOCl Nanosheet Arrays: The Effects of Morphologies and Electrode Configurations. <i>Small</i> , 2018, 14, e1801611. | 5.2 | 38 |
| 101 | Ultrafine CoP_x Nanoparticles Anchored on Nitrogen Doped Reduced Graphene Oxides for Superior Hydrogenation in Alkaline Media. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800515. | 1.9 | 22 |
| 102 | Photoelectric Detectors Based on Inorganic p-Ti Semiconductor Materials. <i>Advanced Materials</i> , 2018, 30, e1706262. | 11.1 | 344 |
| 103 | Wavelength-Tunable Electroluminescent Light Sources from Individual Ga-Doped ZnO Microwires. <i>Small</i> , 2017, 13, 1604034. | 5.2 | 62 |
| 104 | Solution-Growth Strategy for Large-Scale CuGaO_2 Nanoplate/ZnS Microsphere Heterostructure Arrays with Enhanced UV Adsorption and Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2017, 27, 1701066. | 7.8 | 27 |
| 105 | Novel Structure for High Performance UV Photodetector Based on BiOCl/ZnO Hybrid Film. <i>Small</i> , 2017, 13, 1700156. | 5.2 | 81 |
| 106 | Light-Emitting Devices: Wavelength-Tunable Electroluminescent Light Sources from Individual Ga-Doped ZnO Microwires (<i>Small</i> 19/2017). <i>Small</i> , 2017, 13, . | 5.2 | 1 |
| 107 | An Ultrahigh Responsivity (9.7 mA W^{-1}) Self-Powered Solar-Blind Photodetector Based on Individual $\text{ZnO-Ga}_2\text{O}_3$ Heterostructures. <i>Advanced Functional Materials</i> , 2017, 27, 1700264. | 7.8 | 616 |
| 108 | Binary response Se/ZnO p-n heterojunction UV photodetector with high on/off ratio and fast speed. <i>Laser and Photonics Reviews</i> , 2017, 11, 1600257. | 4.4 | 177 |

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| 109 | Highly Desirable Photodetectors Derived from Versatile Plasmonic Nanostructures. <i>Advanced Functional Materials</i> , 2017, 27, 1704181. | 7.8 | 54 |
| 110 | Novel BeZnO Based Self-Powered Dual-Color UV Photodetector Realized via a One-Step Fabrication Method. <i>Laser and Photonics Reviews</i> , 2017, 11, 1700222. | 4.4 | 53 |
| 111 | Novel SiO_2 -Shaped Core-Shell Photodetector with High Ultraviolet Selectivity and Enhanced Responsivity. <i>Advanced Functional Materials</i> , 2017, 27, 1704477. | 7.8 | 29 |
| 112 | ZnO Film UV Photodetector with Enhanced Performance: Heterojunction with CdMoO_4 Microplates and the Hot Electron Injection Effect of Au Nanoparticles. <i>Small</i> , 2017, 13, 1702177. | 5.2 | 109 |
| 113 | Self-Powered Ultraviolet Photodetectors Driven by Built-In Electric Field. <i>Small</i> , 2017, 13, 1701687. | 5.2 | 245 |
| 114 | Novel p-n Heterojunctions Self-Powered Broadband Photodetectors with Ultrafast Speed and High Responsivity. <i>Advanced Functional Materials</i> , 2017, 27, 1703166. | 7.8 | 136 |
| 115 | Novel UV-Visible Photodetector in Photovoltaic Mode with Fast Response and Ultrahigh Photosensitivity Employing Se/TiO_2 Nanotubes Heterojunction. <i>Small</i> , 2017, 13, 1602448. | 5.2 | 202 |
| 116 | Novel Composites of Fe_2O_3 Tetraikadecahedron and Graphene Oxide as an Effective Photoelectrode with Enhanced Photocurrent Performances. <i>Advanced Functional Materials</i> , 2016, 26, 3331-3339. | 7.8 | 206 |
| 117 | Ultrasensitive Self-Powered Solar-Blind Deep-Ultraviolet Photodetector Based on All-Solid-State Polyaniline/MgZnO Bilayer. <i>Small</i> , 2016, 12, 5809-5816. | 5.2 | 268 |
| 118 | Large scale, highly efficient and self-powered UV photodetectors enabled by all-solid-state $\text{n-TiO}_2/\text{p-NiO}$ mesoporous nanosheet heterojunctions. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10032-10039. | 2.7 | 168 |
| 119 | A surface oxide thin layer of copper nanowires enhanced the UV selective response of a ZnO film photodetector. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8416-8421. | 2.7 | 111 |
| 120 | Robust and Stable Ratiometric Temperature Sensor Based on ZnInS Quantum Dots with Intrinsic Dual-Dopant Ion Emissions. <i>Advanced Functional Materials</i> , 2016, 26, 7224-7233. | 7.8 | 53 |
| 121 | Broadband Photoresponse Enhancement of a High-Performance Se Microtube Photodetector by Plasmonic Metallic Nanoparticles. <i>Advanced Functional Materials</i> , 2016, 26, 6641-6648. | 7.8 | 118 |
| 122 | A Novel Sustainable Flour Derived Hierarchical Nitrogen-Doped Porous Carbon/Polyaniline Electrode for Advanced Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2016, 6, 1601111. | 10.2 | 303 |
| 123 | Scalable-Production, Self-Powered TiO_2 Nanowell-Organic Hybrid UV Photodetectors with Tunable Performances. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33924-33932. | 4.0 | 136 |
| 124 | Nanostructured Photodetectors: From Ultraviolet to Terahertz. <i>Advanced Materials</i> , 2016, 28, 403-433. | 11.1 | 492 |
| 125 | Hierarchical MoS_2 Nanosheet@ TiO_2 Nanotube Array Composites with Enhanced Photocatalytic and Photocurrent Performances. <i>Small</i> , 2016, 12, 1527-1536. | 5.2 | 469 |
| 126 | Uniform carbon-coated CdS core-shell nanostructures: synthesis, ultrafast charge carrier dynamics, and photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1078-1086. | 5.2 | 75 |

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