## Xiaosheng Fang

List of Publications by Year in descending order

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4942 7496 23,757 175 84 151 citations h-index g-index papers 181 181 181 17998 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	ZnS nanostructures: From synthesis to applications. Progress in Materials Science, 2011, 56, 175-287.	16.0	1,134
2	New concept ultraviolet photodetectors. Materials Today, 2015, 18, 493-502.	8.3	661
3	An Ultrahigh Responsivity (9.7 mA W <sup>â^'1</sup> ) Selfâ€Powered Solarâ€Blind Photodetector Based on Individual ZnOâ€"Ga <sub>2</sub> O <sub>3</sub> Heterostructures. Advanced Functional Materials, 2017, 27, 1700264.	7.8	616
4	Inorganic semiconductor nanostructures and their field-emission applications. Journal of Materials Chemistry, 2008, 18, 509-522.	6.7	586
5	Singleâ€Crystalline ZnS Nanobelts as Ultravioletâ€Light Sensors. Advanced Materials, 2009, 21, 2034-2039.	11.1	537
6	Nanostructured Photodetectors: From Ultraviolet to Terahertz. Advanced Materials, 2016, 28, 403-433.	11.1	492
7	A Comprehensive Review of One-Dimensional Metal-Oxide Nanostructure Photodetectors. Sensors, 2009, 9, 6504-6529.	2.1	491
8	Hierarchical MoS <sub>2</sub> Nanosheet@TiO <sub>2</sub> Nanotube Array Composites with Enhanced Photocatalytic and Photocurrent Performances. Small, 2016, 12, 1527-1536.	5.2	469
9	An Optimized Ultravioletâ€A Light Photodetector with Wideâ€Range Photoresponse Based on ZnS/ZnO Biaxial Nanobelt. Advanced Materials, 2012, 24, 2305-2309.	11.1	426
10	Lowâ€Dimensional Nanostructure Ultraviolet Photodetectors. Advanced Materials, 2013, 25, 5321-5328.	11.1	362
11	Photoelectric Detectors Based on Inorganic pâ€Type Semiconductor Materials. Advanced Materials, 2018, 30, e1706262.	11.1	344
12	Singleâ€Crystalline CdS Nanobelts for Excellent Fieldâ€Emitters and Ultrahigh Quantumâ€Efficiency Photodetectors. Advanced Materials, 2010, 22, 3161-3165.	11.1	342
13	High Performance BiOCl Nanosheets/TiO <sub>2</sub> Nanotube Arrays Heterojunction UV Photodetector: The Influences of Selfâ€Induced Inner Electric Fields in the BiOCl Nanosheets. Advanced Functional Materials, 2018, 28, 1707178.	7.8	337
14	Novel Transparent and Selfâ€Powered UV Photodetector Based on Crossed ZnO Nanofiber Array Homojunction. Small, 2018, 14, e1703754.	5 <b>.</b> 2	332
15	Oneâ€Step Hydrothermal Synthesis of 2D Hexagonal Nanoplates of αâ€Fe <sub>2</sub> O <sub>3</sub> /Graphene Composites with Enhanced Photocatalytic Activity. Advanced Functional Materials, 2014, 24, 5719-5727.	7.8	331
16	Solar-Blind Avalanche Photodetector Based On Single ZnO–Ga <sub>2</sub> O <sub>3</sub> Core–Shell Microwire. Nano Letters, 2015, 15, 3988-3993.	4.5	331
17	Lowâ€Dimensional Metal Halide Perovskite Photodetectors. Advanced Materials, 2021, 33, e2003309.	11.1	319
18	Recent Developments in Oneâ€Dimensional Inorganic Nanostructures for Photodetectors. Advanced Functional Materials, 2010, 20, 4233-4248.	7.8	314

#	Article	IF	CITATIONS
19	Enhancing the Photoelectric Performance of Photodetectors Based on Metal Oxide Semiconductors by Chargeâ€Carrier Engineering. Advanced Functional Materials, 2019, 29, 1807672.	7.8	313
20	ZnO and ZnS Nanostructures: Ultraviolet-Light Emitters, Lasers, and Sensors. Critical Reviews in Solid State and Materials Sciences, 2009, 34, 190-223.	6.8	306
21	A Novel Sustainable Flour Derived Hierarchical Nitrogenâ€Doped Porous Carbon/Polyaniline Electrode for Advanced Asymmetric Supercapacitors. Advanced Energy Materials, 2016, 6, 1601111.	10.2	303
22	Selfâ€Powered MXene/GaN van der Waals Heterojunction Ultraviolet Photodiodes with Superhigh Efficiency and Stable Current Outputs. Advanced Materials, 2021, 33, e2101059.	11.1	302
23	A Realâ€Time Wearable UVâ€Radiation Monitor based on a Highâ€Performance pâ€CuZnS/nâ€TiO <sub>2</sub> Photodetector. Advanced Materials, 2018, 30, e1803165.	11.1	300
24	Electrical Transport Properties of Large, Individual NiCo <sub>2</sub> O <sub>4</sub> Nanoplates. Advanced Functional Materials, 2012, 22, 998-1004.	7.8	297
25	ZnS Nanostructure Arrays: A Developing Material Star. Advanced Materials, 2011, 23, 585-598.	11.1	296
26	New Ultraviolet Photodetector Based on Individual Nb <sub>2</sub> O <sub>5</sub> Nanobelts. Advanced Functional Materials, 2011, 21, 3907-3915.	7.8	285
27	Materials and Designs for Wearable Photodetectors. Advanced Materials, 2019, 31, e1808138.	11.1	279
28	Ultrahigh External Quantum Efficiency from Thin SnO <sub>2</sub> Nanowire Ultraviolet Photodetectors. Small, 2011, 7, 1012-1017.	5.2	278
29	Ultrasensitive Selfâ€Powered Solarâ€Blind Deepâ€Ultraviolet Photodetector Based on Allâ€Solidâ€State Polyaniline/MgZnO Bilayer. Small, 2016, 12, 5809-5816.	5.2	268
30	Recent Progress of Heterojunction Ultraviolet Photodetectors: Materials, Integrations, and Applications. Advanced Functional Materials, 2020, 30, 1909909.	7.8	264
31	Highâ€Performance Trifunctional Electrocatalysts Based on FeCo/Co <sub>2</sub> P Hybrid Nanoparticles for Zinc–Air Battery and Selfâ€Powered Overall Water Splitting. Advanced Energy Materials, 2020, 10, 1903854.	10.2	259
32	Selfâ€Powered Ultraviolet Photodetectors Driven by Builtâ€In Electric Field. Small, 2017, 13, 1701687.	5.2	245
33	From nanofibers to ordered ZnO/NiO heterojunction arrays for self-powered and transparent UV photodetectors. Journal of Materials Chemistry C, 2019, 7, 223-229.	2.7	245
34	Controlled Growth from ZnS Nanoparticles to ZnS–CdS Nanoparticle Hybrids with Enhanced Photoactivity. Advanced Functional Materials, 2015, 25, 445-454.	7.8	239
35	Photo/Electrochemical Applications of Metal Sulfide/TiO <sub>2</sub> Heterostructures. Advanced Energy Materials, 2020, 10, 1902355.	10.2	236
36	Switch type PANI/ZnO core-shell microwire heterojunction for UV photodetection. Journal of Materials Science and Technology, 2022, 105, 259-265.	5.6	230

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37	Synthesis and Development of Graphene–Inorganic Semiconductor Nanocomposites. Chemical Reviews, 2015, 115, 8294-8343.	23.0	227
38	An Efficient Way to Assemble ZnS Nanobelts as Ultravioletâ€Light Sensors with Enhanced Photocurrent and Stability. Advanced Functional Materials, 2010, 20, 500-508.	7.8	222
39	Energy Harvesting for Nanostructured Selfâ€Powered Photodetectors. Advanced Functional Materials, 2014, 24, 2591-2610.	7.8	217
40	High-Performance Silicon-Compatible Large-Area UV-to-Visible Broadband Photodetector Based on Integrated Lattice-Matched Type II Se/n-Si Heterojunctions. Nano Letters, 2018, 18, 4697-4703.	4.5	212
41	Efficient Selfâ∈Assembly Synthesis of Uniform CdS Spherical Nanoparticlesâ∈Au Nanoparticles Hybrids with Enhanced Photoactivity. Advanced Functional Materials, 2014, 24, 3725-3733.	7.8	211
42	2D Perovskite Sr <sub>2</sub> Nb <sub>3</sub> O <sub>10</sub> for Highâ€Performance UV Photodetectors. Advanced Materials, 2020, 32, e1905443.	11.1	210
43	ZnO Hollow‧phere Nanofilmâ€Based Highâ€Performance and Lowâ€Cost Photodetector. Small, 2011, 7, 2449-2453.	5.2	209
44	Novel Composites of αâ€Fe <sub>2</sub> O <sub>3</sub> Tetrakaidecahedron and Graphene Oxide as an Effective Photoelectrode with Enhanced Photocurrent Performances. Advanced Functional Materials, 2016, 26, 3331-3339.	7.8	206
45	Novel UV–Visible Photodetector in Photovoltaic Mode with Fast Response and Ultrahigh Photosensitivity Employing Se/TiO <sub>2</sub> Nanotubes Heterojunction. Small, 2017, 13, 1602448.	5.2	202
46	Silicon ompatible Photodetectors: Trends to Monolithically Integrate Photosensors with Chip Technology. Advanced Functional Materials, 2019, 29, 1808182.	7.8	198
47	Self-Powered Dual-Color UV–Green Photodetectors Based on SnO <sub>2</sub> Millimeter Wire and Microwires/CsPbBr <sub>3</sub> Particle Heterojunctions. Journal of Physical Chemistry Letters, 2019, 10, 836-841.	2.1	190
48	Structure and Cathodoluminescence of Individual ZnS/ZnO Biaxial Nanobelt Heterostructures. Nano Letters, 2008, 8, 2794-2799.	4.5	185
49	Binary response Se/ZnO pâ€n heterojunction UV photodetector with high on/off ratio and fast speed. Laser and Photonics Reviews, 2017, 11, 1600257.	4.4	177
50	Large scale, highly efficient and self-powered UV photodetectors enabled by all-solid-state n-TiO <sub>2</sub> nanowell/p-NiO mesoporous nanosheet heterojunctions. Journal of Materials Chemistry C, 2016, 4, 10032-10039.	2.7	168
51	Self-powered UV photodetectors based on ZnO nanomaterials. Applied Physics Reviews, 2021, 8, .	5 <b>.</b> 5	167
52	Highly stable and spectrum-selective ultraviolet photodetectors based on lead-free copper-based perovskites. Materials Horizons, 2020, 7, 530-540.	6.4	164
53	MXeneâ€Contacted Silicon Solar Cells with 11.5% Efficiency. Advanced Energy Materials, 2019, 9, 1900180.	10.2	161
54	Novel Route to Feâ€Based Cathode as an Efficient Bifunctional Catalysts for Rechargeable Zn–Air Battery. Advanced Energy Materials, 2018, 8, 1800955.	10.2	146

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55	Application of Nanostructured TiO <sub>2</sub> in UV Photodetectors: A Review. Advanced Materials, 2022, 34, e2109083.	11.1	145
56	General Fabrication of Monolayer SnO <sub>2</sub> Nanonets for Highâ€Performance Ultraviolet Photodetectors. Advanced Functional Materials, 2012, 22, 1229-1235.	7.8	141
57	Scalable-Production, Self-Powered TiO <sub>2</sub> Nanowell–Organic Hybrid UV Photodetectors with Tunable Performances. ACS Applied Materials & Samp; Interfaces, 2016, 8, 33924-33932.	4.0	136
58	Novel p–p Heterojunctions Selfâ€Powered Broadband Photodetectors with Ultrafast Speed and High Responsivity. Advanced Functional Materials, 2017, 27, 1703166.	7.8	136
59	Electrocatalytic nitrate/nitrite reduction to ammonia synthesis using metal nanocatalysts and bio-inspired metalloenzymes. Nano Energy, 2021, 86, 106088.	8.2	136
60	Stackingâ€Orderâ€Dependent Optoelectronic Properties of Bilayer Nanofilm Photodetectors Made From Hollow ZnS and ZnO Microspheres. Advanced Materials, 2012, 24, 5872-5877.	11.1	134
61	Thin SnO <sub>2</sub> Nanowires with Uniform Diameter as Excellent Field Emitters: A Stability of More Than 2400 Minutes. Advanced Functional Materials, 2012, 22, 1613-1622.	7.8	134
62	Bio-inspired transparent MXene electrodes for flexible UV photodetectors. Materials Horizons, 2020, 7, 1828-1833.	6.4	134
63	Nickel Cobaltite Nanostructures for Photoelectric and Catalytic Applications. Small, 2015, 11, 4267-4283.	5.2	127
64	Piezoâ€Phototronic Effect Modulated Deep UV Photodetector Based on ZnOâ€Ga <sub>2</sub> O <sub>3</sub> Heterojuction Microwire. Advanced Functional Materials, 2018, 28, 1706379.	7.8	126
65	Facetâ€Dependent, Fast Response, and Broadband Photodetector Based on Highly Stable Allâ€Inorganic CsCu <sub>2</sub> 1 <sub>3</sub> Single Crystal with 1D Electronic Structure. Advanced Functional Materials, 2020, 30, 2002634.	7.8	126
66	Solutionâ€Processed Selfâ€Powered Transparent Ultraviolet Photodetectors with Ultrafast Response Speed for Highâ€Performance Communication System. Advanced Functional Materials, 2019, 29, 1809013.	7.8	123
67	Growth and Device Application of CdSe Nanostructures. Advanced Functional Materials, 2012, 22, 1551-1566.	7.8	122
68	Solution-processed one-dimensional CsCu <sub>2</sub> 1 <sub>3</sub> nanowires for polarization-sensitive and flexible ultraviolet photodetectors. Materials Horizons, 2020, 7, 1613-1622.	6.4	120
69	Broadband Photoresponse Enhancement of a Highâ€Performance <i>t</i> àê€e Microtube Photodetector by Plasmonic Metallic Nanoparticles. Advanced Functional Materials, 2016, 26, 6641-6648.	7.8	118
70	Enhanced Field Emission Performance of ZnO Nanorods by Two Alternative Approaches. Journal of Physical Chemistry C, 2007, 111, 12673-12676.	1.5	116
71	Supersaturationâ€Controlled Growth of Monolithically Integrated Leadâ€Free Halide Perovskite Singleâ€Crystalline Thin Film for Highâ€Sensitivity Photodetectors. Advanced Materials, 2021, 33, e2103010.	11.1	114
72	High Responsivity and High Rejection Ratio of Self-Powered Solar-Blind Ultraviolet Photodetector Based on PEDOT:PSS/β-Ga <sub>2</sub> O <sub>3</sub> Organic/Inorganic p–n Junction. Journal of Physical Chemistry Letters, 2019, 10, 6850-6856.	2.1	113

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73	A surface oxide thin layer of copper nanowires enhanced the UV selective response of a ZnO film photodetector. Journal of Materials Chemistry C, 2016, 4, 8416-8421.	2.7	111
74	ZnO Film UV Photodetector with Enhanced Performance: Heterojunction with CdMoO <sub>4</sub> Microplates and the Hot Electron Injection Effect of Au Nanoparticles. Small, 2017, 13, 1702177.	<b>5.</b> 2	109
75	Hexagonal-like Nb2O5 Nanoplates-Based Photodetectors and Photocatalyst with High Performances. Scientific Reports, 2015, 5, 7716.	1.6	105
76	WO3 nanowires on carbon papers: electronic transport, improved ultraviolet-light photodetectors and excellent field emitters. Journal of Materials Chemistry, 2011, 21, 6525.	6.7	103
77	Millimeter-Sized Single-Crystal CsPbrB <sub>3</sub> /Cul Heterojunction for High-Performance Self-Powered Photodetector. Journal of Physical Chemistry Letters, 2019, 10, 2400-2407.	2.1	99
78	High-Performance Two-Dimensional Perovskite Ca <sub>2</sub> Nb <sub>3</sub> O <sub>10</sub> UV Photodetectors. Nano Letters, 2021, 21, 382-388.	4.5	98
79	New UVâ€A Photodetector Based on Individual Potassium Niobate Nanowires with High Performance. Advanced Optical Materials, 2014, 2, 771-778.	3.6	97
80	Improved Photoelectric Performance of UV Photodetector Based on ZnO Nanoparticleâ€Decorated BiOCl Nanosheet Arrays onto PDMS Substrate: The Heterojunction and Ti <sub>3</sub> C <sub>2</sub> Ti>sub>xMXene Conduction Layer. Advanced Electronic Materials, 2020, 6, 2000168.	2.6	94
81	Crystallinityâ€Controlled Germanium Nanowire Arrays: Potential Field Emitters. Advanced Functional Materials, 2008, 18, 1080-1088.	7.8	92
82	Fabrication of 1D Te/2D ReS <sub>2</sub> Mixed-Dimensional van der Waals <i>p-n</i> Heterojunction for High-Performance Phototransistor. ACS Nano, 2021, 15, 3241-3250.	7.3	91
83	Orthogonal Lithography for Halide Perovskite Optoelectronic Nanodevices. ACS Nano, 2019, 13, 1168-1176.	7.3	90
84	Chemical Bath Deposition of p-Type Transparent, Highly Conducting (CuS) <sub><i>x</i></sub> :(ZnS) <sub>1–<i>x</i></sub> Nanocomposite Thin Films and Fabrication of Si Heterojunction Solar Cells. Nano Letters, 2016, 16, 1925-1932.	4.5	89
85	One-dimensional inorganic semiconductor nanostructures: A new carrier for nanosensors. Pure and Applied Chemistry, 2010, 82, 2185-2198.	0.9	88
86	Shell-thickness dependent electron transfer and relaxation in type-II core–shell CdS/TiO <sub>2</sub> structures with optimized photoelectrochemical performance. Journal of Materials Chemistry A, 2015, 3, 22627-22635.	<b>5.</b> 2	87
87	Selfâ€Powered n‧nO <sub>2</sub> /p uZnS Core–Shell Microwire UV Photodetector with Optimized Performance. Advanced Optical Materials, 2018, 6, 1800213.	3.6	83
88	Novel Structure for High Performance UV Photodetector Based on BiOCl/ZnO Hybrid Film. Small, 2017, 13, 1700156.	5.2	81
89	Selfâ€Powered Flexible TiO <sub>2</sub> Fibrous Photodetectors: Heterojunction with P3HT and Boosted Responsivity and Selectivity by Au Nanoparticles. Advanced Functional Materials, 2020, 30, 2001604.	7.8	81
90	Ultrafast Speed, Dark Current Suppression, and Self-Powered Enhancement in TiO <sub>2</sub> -Based Ultraviolet Photodetectors by Organic Layers and Ag Nanowires Regulation. Journal of Physical Chemistry Letters, 2021, 12, 9912-9918.	2.1	79

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91	Design Principles and Material Engineering of ZnS for Optoelectronic Devices and Catalysis. Advanced Functional Materials, 2018, 28, 1802029.	7.8	77
92	Crystal orientation-ordered ZnS nanobelt quasi-arrays and their enhanced field-emission. Chemical Communications, 2007, , 3048.	2.2	76
93	Uniform carbon-coated CdS core–shell nanostructures: synthesis, ultrafast charge carrier dynamics, and photoelectrochemical water splitting. Journal of Materials Chemistry A, 2016, 4, 1078-1086.	5.2	75
94	Selfâ€Polarized BaTiO <sub>3</sub> for Greatly Enhanced Performance of ZnO UV Photodetector by Regulating the Distribution of Electron Concentration. Advanced Functional Materials, 2020, 30, 1907650.	7.8	74
95	Efficiency enhancement of TiO <sub>2</sub> self-powered UV photodetectors using a transparent Ag nanowire electrode. Journal of Materials Chemistry C, 2018, 6, 3334-3340.	2.7	71
96	Sizeâ€Controlled Graphene Nanodot Arrays/ZnO Hybrids for Highâ€Performance UV Photodetectors. Advanced Science, 2018, 5, 1700334.	5.6	70
97	An Allâ€Organic Selfâ€Powered Photodetector with Ultraflexible Dualâ€Polarity Output for Biosignal Detection. Advanced Materials, 2022, 34, .	11.1	70
98	Cathodoluminescence Modulation of ZnS Nanostructures by Morphology, Doping, and Temperature. Advanced Functional Materials, 2013, 23, 3701-3709.	7.8	69
99	Crossâ€Bar SnO <sub>2</sub> â€NiO Nanofiberâ€Arrayâ€Based Transparent Photodetectors with High Detectivity. Advanced Electronic Materials, 2020, 6, 1901048.	2.6	68
100	Heteroepitaxial Growth of GaP/ZnS Nanocable with Superior Optoelectronic Response. Nano Letters, 2013, 13, 1941-1947.	4.5	67
101	Low-cost writing method for self-powered paper-based UV photodetectors utilizing Te/TiO <sub>2</sub> and Te/ZnO heterojunctions. Nanoscale Horizons, 2019, 4, 452-456.	4.1	64
102	Three-dimensional helical inorganic thermoelectric generators and photodetectors for stretchable and wearable electronic devices. Journal of Materials Chemistry C, 2018, 6, 4866-4872.	2.7	63
103	Wavelengthâ€Tunable Electroluminescent Light Sources from Individual Gaâ€Doped ZnO Microwires. Small, 2017, 13, 1604034.	5.2	62
104	Perovskite-Type 2D Materials for High-Performance Photodetectors. Journal of Physical Chemistry Letters, 2022, 13, 1215-1225.	2.1	62
105	Interface Engineering Ti <sub>3</sub> C <sub>2</sub> MXene/Silicon Selfâ€Powered Photodetectors with High Responsivity and Detectivity for Weak Light Applications. Small, 2021, 17, e2100439.	5.2	61
106	High performance polarization-sensitive self-powered imaging photodetectors based on a p-Te/n-MoSe <sub>2</sub> van der Waals heterojunction with strong interlayer transition. Materials Horizons, 2021, 8, 3113-3123.	6.4	61
107	Band Gap Tunable Zn2SnO4 Nanocubes through Thermal Effect and Their Outstanding Ultraviolet Light Photoresponse. Scientific Reports, 2014, 4, 6847.	1.6	60
108	A Paperâ€Based Wearable Photodetector for Simultaneous UV Intensity and Dosage Measurement. Advanced Functional Materials, 2021, 31, 2100026.	7.8	58

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109	Workâ€Functionâ€Tunable MXenes Electrodes to Optimize pâ€CsCu <sub>2</sub> I <sub>3</sub> /i>Ta <i><sub>&gt; Junction Photodetectors for Image Sensing and Logic Electronics. Advanced Functional Materials, 2022, 32, .</sub></i>	x <i>&lt;.</i> /sub> <th>&gt;0<sub>10</sub></th>	>0 <sub>10</sub>
110	Fastâ∈Response, Highly Airâ∈Stable, and Waterâ∈Resistant Organic Photodetectors Based on a Singleâ∈Crystal Pt Complex. Advanced Materials, 2020, 32, e1904634.	11.1	56
111	Highly Desirable Photodetectors Derived from Versatile Plasmonic Nanostructures. Advanced Functional Materials, 2017, 27, 1704181.	7.8	54
112	Solutionâ€Processed Transparent Selfâ€Powered pâ€CuSâ€ZnS/nâ€ZnO UV Photodiode. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1700381.	1.2	54
113	Highâ€Performance SiC Nanobelt Photodetectors with Longâ€Term Stability Against 300 °C up to 180 Days. Advanced Functional Materials, 2019, 29, 1806250.	7.8	54
114	Robust and Stable Ratiometric Temperature Sensor Based on Zn–In–S Quantum Dots with Intrinsic Dualâ€Dopant Ion Emissions. Advanced Functional Materials, 2016, 26, 7224-7233.	7.8	53
115	Novel BeZnO Based Selfâ€Powered Dualâ€Color UV Photodetector Realized via a Oneâ€Step Fabrication Method. Laser and Photonics Reviews, 2017, 11, 1700222.	4.4	53
116	Designed growth and patterning of perovskite nanowires for lasing and wide color gamut phosphors with long-term stability. Nano Energy, 2020, 73, 104801.	8.2	53
117	Mechanically Compatible UV Photodetectors Based on Electrospun Freeâ€Standing Y <sup>3+</sup> â€Doped TiO <sub>2</sub> Nanofibrous Membranes with Enhanced Flexibility. Advanced Functional Materials, 2020, 30, 2005291.	7.8	51
118	Recent advances toward environment-friendly photodetectors based on lead-free metal halide perovskites and perovskite derivatives. Materials Horizons, 2021, 8, 1367-1389.	6.4	46
119	Ultrathin 2D NbWO <sub>6</sub> Perovskite Semiconductor Based Gas Sensors with Ultrahigh Selectivity under Low Working Temperature. Advanced Materials, 2022, 34, e2104958.	11.1	46
120	Tunable selfâ€powered n‧rTiO <sub>3</sub> photodetectors based on varying CuSâ€ZnS nanocomposite film (pâ€CuZnS, pâ€CuS, and nâ€ZnS). InformaÄnÃ-Materiály, 2019, 1, 542-551.	8.5	44
121	A wearable helical organic–inorganic photodetector with thermoelectric generators as the power source. Journal of Materials Chemistry C, 2019, 7, 13097-13103.	2.7	41
122	CsPbI <sub>3</sub> Nanotube Photodetectors with High Detectivity. Small, 2019, 15, e1905253.	5.2	41
123	Polarization Sensitive Solarâ€Blind Ultraviolet Photodetectors Based on Ultrawide Bandgap KNb <sub>3</sub> O <sub>8</sub> Nanobelt with Fringeâ€Like Atomic Lattice. Advanced Functional Materials, 2022, 32, .	7.8	41
124	Si nanowire semisphere-like ensembles as field emitters. Chemical Communications, 2007, , 4093.	2.2	40
125	Transparent Schottky Photodiode Based on AgNi NWs/SrTiO <sub>3</sub> Contact with an Ultrafast Photoresponse to Shortâ€Wavelength Blue Light and UVâ€Shielding Effect. Advanced Functional Materials, 2019, 29, 1905923.	7.8	40
126	Thermal stability of CsPbBr3 perovskite as revealed by <i>in situ</i> transmission electron microscopy. APL Materials, 2019, 7, .	2.2	39

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127	UV Photodetectors Based on BiOCl Nanosheet Arrays: The Effects of Morphologies and Electrode Configurations. Small, 2018, 14, e1801611.	5.2	38
128	CdS/CdSO <sub>4</sub> Nanoflower-Based Photodetector with Enhanced Photoelectric Performances. ACS Applied Nano Materials, 2020, 3, 10190-10199.	2.4	37
129	Two-dimensional Ti <sub>3</sub> C <sub>2</sub> MXene-based nanostructures for emerging optoelectronic applications. Materials Horizons, 2021, 8, 2929-2963.	6.4	37
130	Solutionâ€Processed Transparent Sn <sup>4+</sup> â€Doped CuI Hybrid Photodetectors with Enhanced Performances. Advanced Materials Interfaces, 2019, 6, 1900669.	1.9	36
131	Wearable and Ultrasensitive Strain Sensor Based on Highâ€Quality GaN pn Junction Microwire Arrays. Small, 2020, 16, e1907461.	5.2	35
132	Highly UV Resistant Inchâ€Scale Hybrid Perovskite Quantum Dot Papers. Advanced Science, 2020, 7, 1902439.	5.6	33
133	Dualâ€Band Perovskite Bulk Heterojunction Selfâ€Powered Photodetector for Encrypted Communication and Imaging. Advanced Optical Materials, 2022, 10, .	3.6	33
134	Allâ€Solidâ€State Onâ€Chip Supercapacitors Based on Freeâ€Standing 4 <i>H</i> à€SiC Nanowire Arrays. Advance Energy Materials, 2019, 9, 1900073.	$ced_{0.2}$	32
135	Novel Ωâ€Shaped Core–Shell Photodetector with High Ultraviolet Selectivity and Enhanced Responsivity. Advanced Functional Materials, 2017, 27, 1704477.	7.8	29
136	Constructing the Band Alignment of Graphitic Carbon Nitride (g-C <sub>3</sub> N <sub>4</sub> )/Copper(I) Oxide (Cu <sub>2</sub> O) Composites by Adjusting the Contact Facet for Superior Photocatalytic Activity. ACS Applied Energy Materials, 2019, 2, 1803-1811.	2.5	29
137	Boosted Responsivity and Tunable Spectral Response in Bâ€Site Substituted 2D Ca <sub>2</sub> Nb <sub>3â^'</sub> <i><sub>x</sub></i> Perovskite Photodetectors. Advanced Functional Materials, 2021, 31, 2101480.	7.8	29
138	Facile fabrication of heterostructure with p-BiOCl nanoflakes and n-ZnO thin film for UV photodetectors. Journal of Semiconductors, 2021, 42, 052301.	2.0	29
139	Doping Concentration Influenced Pyroâ€Phototronic Effect in Selfâ€Powered Photodetector Based on Gaâ€Incorporated ZnO Microwire/p <sup>+</sup> â€GaN Heterojunction. Advanced Optical Materials, 2022, 10, 2101851.	3.6	29
140	Solutionâ€Growth Strategy for Largeâ€Scale "CuGaO <sub>2</sub> Nanoplate/ZnS Microsphere― Heterostructure Arrays with Enhanced UV Adsorption and Optoelectronic Properties. Advanced Functional Materials, 2017, 27, 1701066.	7.8	27
141	Enhanced Electrical Properties of Lithography-Free Fabricated MoS <sub>2</sub> Field Effect Transistors with Chromium Contacts. Journal of Physical Chemistry Letters, 2021, 12, 2705-2711.	2.1	26
142	Rose-like CuS microflowers and their enhanced visible-light photocatalytic performance. CrystEngComm, 2018, 20, 6529-6537.	1.3	24
143	Humidityâ€Dependent Characteristics of Fewâ€Layer MoS <sub>2</sub> Field Effect Transistors. Advanced Electronic Materials, 2020, 6, 2000659.	2.6	23
144	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
145	Ultrafine CoP <i><sub></sub></i> Nanoparticles Anchored on Nitrogen Doped Reduced Graphene Oxides for Superior Hydrogenation in Alkaline Media. Advanced Materials Interfaces, 2018, 5, 1800515.	1.9	22
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174	Zinc Sulfide Nanostructure Arrays: ZnS Nanostructure Arrays: A Developing Material Star (Adv.) Tj ETQq0 0 0 rgBT	-  Overloc	k 10 Tf 50 30

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