Kewei Liu

List of Publications by Year
in descending order

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Version: 2024-02-01

34 papers	2,706 citations	361413 20 h-index	377865 34 g-index
34 all docs	34 docs citations	34 times ranked	3095 citing authors

#	Article	IF	Citations
1	MOCVD growth of MgGa2O4 thin films for high-performance solar-blind UV photodetectors. Applied Physics Letters, 2022, 120, .	3.3	7
2	A Solutionâ€Processed Allâ€Perovskite Memory with Dualâ€Band Light Response and Triâ€Mode Operation. Advanced Functional Materials, 2022, 32, 2110975.	14.9	30
3	Recent advances in optoelectronic and microelectronic devices based on ultrawide-bandgap semiconductors. Progress in Quantum Electronics, 2022, 83, 100397.	7.0	46
4	High Detectivity of Metalâ€“Semiconductorâ€“Metal Ga₂O₃ Solar-Blind Photodetector Through Thickness-Regulated Gain. IEEE Transactions on Electron Devices, 2022, 69, 4362-4365.	3.0	4
5	Effects of Mg Component Ratio on Photodetection Performance of MgGa₂O₄ Solarâ€Blind Ultraviolet Photodetectors. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	2.4	6
6	Selfâ€Driven WSe₂/Bi₂O₂Se Van der Waals Heterostructure Photodetectors with High Light On/Off Ratio and Fast Response. Advanced Functional Materials, 2021, 31, 2008351.	14.9	129
7	Quenching of persistent photocurrent in an oxide UV photodetector. Journal of Materials Chemistry C, 2021, 9, 4039-4045.	5.5	21
8	Performance enhancement of a p-Si/n-ZnGa₂O₄ heterojunction solar-blind UV photodetector through interface engineering. Journal of Materials Chemistry C, 2021, 9, 10013-10019.	5.5	14
9	Performance enhancement of a self-powered solar-blind UV photodetector based on ZnGa2O4/Si heterojunction via interface pyroelectric effect. Applied Physics Letters, 2021, 118, .	3.3	37
10	Speed enhancement of ultraviolet photodetector base on ZnO quantum dots by oxygen adsorption on surface defects. Journal of Alloys and Compounds, 2021, 868, 159252.	5.5	15
11	High-performance flexible UV photodetector based on self-supporting ZnO nano-networks fabricated by substrate-free chemical vapor deposition. Nanotechnology, 2021, 32, 475201.	2.6	12
12	Responsivity improvement of a packaged ZnMgO solar blind ultraviolet photodetector via a sealing treatment of silica gel. Journal of Materials Chemistry C, 2020, 8, 1089-1094.	5.5	22
13	Self-powered solar-blind ZnGa2O4 UV photodetector with ultra-fast response speed. Sensors and Actuators A: Physical, 2020, 315, 112354.	4.1	41
14	Microwave Synthesis and Highâ€Mobility Charge Transport of Carbonâ€Nanotubeâ€inâ€Perovskite Single Crystals. Advanced Optical Materials, 2020, 8, 2001740.	7.3	15
15	Performance improvement of amorphous Ga2O3 ultraviolet photodetector by annealing under oxygen atmosphere. Journal of Alloys and Compounds, 2020, 840, 155585.	5.5	54
16	Suppression of Persistent Photoconductivity of Rubrene Crystals using Gateâ€Tunable Rubrene/Bi₂Se₃ Diodes with Photoinduced Negative Differential Resistance. Small, 2020, 16, e2002312.	10.0	25
17	A high performance self-powered ultraviolet photodetector based on a p-GaN/n-ZnMgO heterojunction. Journal of Materials Chemistry C, 2020, 8, 2719-2724.	5.5	45
18	Avalanche Gain in Metalâ€“Semiconductorâ€“Metal Ga₂O₃ Solar-Blind Photodiodes. Journal of Physical Chemistry C, 2019, 123, 18516-18520.	3.1	50

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19	High-Performance Planar-Type Ultraviolet Photodetector Based on High-Quality CH₃NH₃PbCl₃ Perovskite Single Crystals. ACS Applied Materials & Interfaces, 2019, 11, 34144-34150.	8.0	71
20	Self-powered solar-blind ultraviolet photodetector based on Au/ZnMgO/ZnO:Al with comb-shaped Schottky electrode. Sensors and Actuators A: Physical, 2019, 295, 623-628.	4.1	17
21	Reversible manipulation of lattice defects in single-crystal SnO2 microrod by applying mechanical stress and voltage. Journal of Applied Physics, 2019, 125, .	2.5	1
22	Ultraviolet electroluminescence from a n-ZnO film/p-GaN heterojunction under both forward and reverse bias. Journal of Materials Chemistry C, 2018, 6, 11368-11373.	5.5	13
23	Investigation of Interface Effect on the Performance of CH₃NH₃PbCl₃/ZnO UV Photodetectors. ACS Applied Materials & Interfaces, 2018, 10, 34744-34750.	8.0	40
24	Highly Wavelength-Selective Enhancement of Responsivity in Ag Nanoparticle-Modified ZnO UV Photodetector. ACS Applied Materials & Interfaces, 2017, 9, 5574-5579.	8.0	126
25	Performance enhancement of a ZnMgO film UV photodetector by HF solution treatment. Journal of Materials Chemistry C, 2017, 5, 10645-10651.	5.5	16
26	Performance improvement of a ZnMgO ultraviolet detector by chemical treatment with hydrogen peroxide. Journal of Materials Chemistry C, 2017, 5, 7598-7603.	5.5	23
27	Self-Powered Solar-Blind Photodetector with Fast Response Based on Au/Î²-Ga₂O₃ Nanowires Array Film Schottky Junction. ACS Applied Materials & Interfaces, 2016, 8, 4185-4191.	8.0	338
28	Laser-Modified Black Titanium Oxide Nanospheres and Their Photocatalytic Activities under Visible Light. ACS Applied Materials & Interfaces, 2015, 7, 16070-16077.	8.0	122
29	Ultrahighâ€Gain Single SnO₂ Microrod Photoconductor on Flexible Substrate with Fast Recovery Speed. Advanced Functional Materials, 2015, 25, 3157-3163.	14.9	84
30	New concept ultraviolet photodetectors. Materials Today, 2015, 18, 493-502.	14.2	661
31	Reversible and nonvolatile modulation of electrical resistance in SnO₂by external strain. Applied Physics Express, 2014, 7, 031101.	2.4	4
32	Controlling Semiconducting and Insulating States of SnO₂ Reversibly by Stress and Voltage. ACS Nano, 2012, 6, 7209-7215.	14.6	16
33	Enhancing the Humidity Sensitivity of Ga₂O₃/SnO₂ Core/Shell Microribbon by Applying Mechanical Strain and Its Application as a Flexible Strain Sensor. Small, 2012, 8, 3599-3604.	10.0	25
34	ZnO-Based Ultraviolet Photodetectors. Sensors, 2010, 10, 8604-8634.	3.8	576