

Kewei Liu

List of Publications by Year in descending order

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34
papers

2,706
citations

361413
20
h-index

377865
34
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34
all docs

34
docs citations

34
times ranked

3095
citing authors

#	ARTICLE	IF	CITATIONS
1	New concept ultraviolet photodetectors. <i>Materials Today</i> , 2015, 18, 493-502.	14.2	661
2	ZnO-Based Ultraviolet Photodetectors. <i>Sensors</i> , 2010, 10, 8604-8634.	3.8	576
3	Self-Powered Solar-Blind Photodetector with Fast Response Based on Au/ In_2O_3 -Ga In Nanowires Array Film Schottky Junction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4185-4191.	8.0	338
4	Self-Driven $\text{WSe}_2/\text{Bi}_2\text{O}_3/\text{Se}$ Van der Waals Heterostructure Photodetectors with High Light On/Off Ratio and Fast Response. <i>Advanced Functional Materials</i> , 2021, 31, 2008351.	14.9	129
5	Highly Wavelength-Selective Enhancement of Responsivity in Ag Nanoparticle-Modified ZnO UV Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5574-5579.	8.0	126
6	Laser-Modified Black Titanium Oxide Nanospheres and Their Photocatalytic Activities under Visible Light. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16070-16077.	8.0	122
7	Ultrahigh-Gain Single SnO_2 Microrod Photoconductor on Flexible Substrate with Fast Recovery Speed. <i>Advanced Functional Materials</i> , 2015, 25, 3157-3163.	14.9	84
8	High-Performance Planar-Type Ultraviolet Photodetector Based on High-Quality $\text{CH}_3\text{NH}_3\text{PbCl}_3$ Perovskite Single Crystals. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34144-34150.	8.0	71
9	Performance improvement of amorphous Ga_2O_3 ultraviolet photodetector by annealing under oxygen atmosphere. <i>Journal of Alloys and Compounds</i> , 2020, 840, 155585.	5.5	54
10	Avalanche Gain in Metal-Semiconductor-Metal Ga_2O_3 Solar-Blind Photodiodes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18516-18520.	3.1	50
11	Recent advances in optoelectronic and microelectronic devices based on ultrawide-bandgap semiconductors. <i>Progress in Quantum Electronics</i> , 2022, 83, 100397.	7.0	46
12	A high performance self-powered ultraviolet photodetector based on a p-GaN/n-ZnMgO heterojunction. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2719-2724.	5.5	45
13	Self-powered solar-blind ZnGa_2O_4 UV photodetector with ultra-fast response speed. <i>Sensors and Actuators A: Physical</i> , 2020, 315, 112354.	4.1	41
14	Investigation of Interface Effect on the Performance of $\text{CH}_3\text{NH}_3\text{PbCl}_3/\text{ZnO}$ UV Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34744-34750.	8.0	40
15	Performance enhancement of a self-powered solar-blind UV photodetector based on $\text{ZnGa}_2\text{O}_4/\text{Si}$ heterojunction via interface pyroelectric effect. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	37
16	A Solution-Processed All-Perovskite Memory with Dual-Band Light Response and Tri-Mode Operation. <i>Advanced Functional Materials</i> , 2022, 32, 2110975.	14.9	30
17	Enhancing the Humidity Sensitivity of $\text{Ga}_2\text{O}_3/\text{SnO}_2$ Core/Shell Microribbon by Applying Mechanical Strain and Its Application as a Flexible Strain Sensor. <i>Small</i> , 2012, 8, 3599-3604.	10.0	25
18	Suppression of Persistent Photoconductivity of Rubrene Crystals using Gate-Tunable Rubrene/ $\text{Bi}_2\text{O}_3/\text{Se}$ Diodes with Photoinduced Negative Differential Resistance. <i>Small</i> , 2020, 16, e2002312.	10.0	25

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19	Performance improvement of a ZnMgO ultraviolet detector by chemical treatment with hydrogen peroxide. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7598-7603.	5.5	23
20	Responsivity improvement of a packaged ZnMgO solar blind ultraviolet photodetector <i>via</i> a sealing treatment of silica gel. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1089-1094.	5.5	22
21	Quenching of persistent photocurrent in an oxide UV photodetector. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4039-4045.	5.5	21
22	Self-powered solar-blind ultraviolet photodetector based on Au/ZnMgO/ZnO:Al with comb-shaped Schottky electrode. <i>Sensors and Actuators A: Physical</i> , 2019, 295, 623-628.	4.1	17
23	Controlling Semiconducting and Insulating States of SnO ₂ Reversibly by Stress and Voltage. <i>ACS Nano</i> , 2012, 6, 7209-7215.	14.6	16
24	Performance enhancement of a ZnMgO film UV photodetector by HF solution treatment. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10645-10651.	5.5	16
25	Microwave Synthesis and High-Mobility Charge Transport of Carbon-Nanotube-Perovskite Single Crystals. <i>Advanced Optical Materials</i> , 2020, 8, 2001740.	7.3	15
26	Speed enhancement of ultraviolet photodetector base on ZnO quantum dots by oxygen adsorption on surface defects. <i>Journal of Alloys and Compounds</i> , 2021, 868, 159252.	5.5	15
27	Performance enhancement of a p-Si/n-ZnGa ₂ O ₄ heterojunction solar-blind UV photodetector through interface engineering. <i>Journal of Materials Chemistry C</i> , 2021, 9, 10013-10019.	5.5	14
28	Ultraviolet electroluminescence from a n-ZnO film/p-GaN heterojunction under both forward and reverse bias. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11368-11373.	5.5	13
29	High-performance flexible UV photodetector based on self-supporting ZnO nano-networks fabricated by substrate-free chemical vapor deposition. <i>Nanotechnology</i> , 2021, 32, 475201.	2.6	12
30	MOCVD growth of MgGa ₂ O ₄ thin films for high-performance solar-blind UV photodetectors. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	7
31	Effects of Mg Component Ratio on Photodetection Performance of MgGa ₂ O ₄ Solar-Blind Ultraviolet Photodetectors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, .	2.4	6
32	Reversible and nonvolatile modulation of electrical resistance in SnO ₂ by external strain. <i>Applied Physics Express</i> , 2014, 7, 031101.	2.4	4
33	High Detectivity of Metal-Semiconductor-Metal Ga ₂ O ₃ Solar-Blind Photodetector Through Thickness-Regulated Gain. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 4362-4365.	3.0	4
34	Reversible manipulation of lattice defects in single-crystal SnO ₂ microrod by applying mechanical stress and voltage. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	1