

# Qing Cai

## List of Publications by Year in descending order

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16  
papers

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1307594

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docs citations

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times ranked

377  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembly Nanopillar/Superlattice Hierarchical Structure: Boosting AlGa <sub>0.5</sub> N Crystalline Quality and Achieving High-Performance Ultraviolet Avalanche Photodetector. ACS Applied Materials & Interfaces, 2022, 14, 33525-33537.	8.0	4
2	High-performance normally off p-GaN gate high-electron-mobility transistor with In <sub>0.17</sub> Al <sub>0.83</sub> N barrier layer design. Optical and Quantum Electronics, 2021, 53, 1.	3.3	7
3	Progress on AlGa <sub>0.5</sub> N-based solar-blind ultraviolet photodetectors and focal plane arrays. Light: Science and Applications, 2021, 10, 94.	16.6	193
4	A High Quantum Efficiency Narrow-Band UV-B AlGa <sub>0.5</sub> N p-i-n Photodiode With Polarization Assistance. IEEE Photonics Journal, 2021, 13, 1-8.	2.0	5
5	Low-Voltage p-i-n GaN-Based Alpha-Particle Detector With High Energy Resolution. IEEE Electron Device Letters, 2021, 42, 1755-1758.	3.9	3
6	Direct observation of reach-through behavior in back-illuminated algan avalanche photodiode with separate absorption and multiplication structure. Journal Physics D: Applied Physics, 2020, 53, 425101.	2.8	3
7	Î±-Ga <sub>2</sub> O <sub>3</sub> : A Promising Candidate for High-Electron-Mobility Transistors. IEEE Electron Device Letters, 2020, , 1-1.	3.9	15
8	Back-illuminated AlGa <sub>0.5</sub> N heterostructure solar-blind avalanche photodiodes with one-dimensional photonic crystal filter. Optics Express, 2020, 28, 6027.	3.4	7
9	A High-Performance SiO <sub>2</sub> /SiN <sub>x</sub> 1-D Photonic Crystal UV Filter Used for Solar-Blind Photodetectors. IEEE Photonics Journal, 2019, 11, 1-7.	2.0	3
10	Nanoplasmonically Enhanced High-Performance Metastable Phase Î±-Ga <sub>2</sub> O <sub>3</sub> Solar-Blind Photodetectors. ACS Applied Materials & Interfaces, 2019, 11, 40283-40289.	8.0	31
11	Performance Modulation for Back-Illuminated AlGa <sub>0.5</sub> N Ultraviolet Avalanche Photodiodes Based on Multiplication Scaling. IEEE Photonics Journal, 2019, 11, 1-7.	2.0	10
12	Performance of Monolayer Blue Phosphorene Double-Gate MOSFETs from the First Principles. ACS Applied Materials & Interfaces, 2019, 11, 20956-20964.	8.0	39
13	Effects of the Trap Level in the Unintentionally Doped GaN Buffer Layer on Optimized p-GaN Gate AlGa <sub>0.5</sub> N/GaN HEMTs. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700368.	1.8	5
14	An Improved Design for Solar-Blind AlGa <sub>0.5</sub> N Avalanche Photodiodes. IEEE Photonics Journal, 2017, 9, 1-7.	2.0	13
15	Photoluminescence Study of the Photoinduced Phase Separation in Mixed-Halide Hybrid Perovskite CH <sub>3</sub> NH <sub>3</sub> Pb(BrxI <sup>1-x</sup> ) <sub>3</sub> Crystals Synthesized via a Solvothermal Method. Scientific Reports, 2017, 7, 17695.	3.3	18
16	Improved Schottky contacts to InGa <sub>0.5</sub> N alloys by a photoelectrochemical treatment. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1034-1038.	1.8	0