

Ke Jiang

List of Publications by Year in descending order

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29
papers

987
citations

516710

16
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454955

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docs citations

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times ranked

1113
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulating the Valence Level Arrangement of High-Al-content AlGa _N Quantum Wells Using Additional Potentials with Mg Doping. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	1
2	Hybrid metal/Ga ₂ O ₃ /Ga _N ultraviolet detector for obtaining low dark current and high responsivity. <i>Optics Letters</i> , 2022, 47, 1561.	3.3	8
3	Quantum engineering of non-equilibrium efficient p-doping in ultra-wide band-gap nitrides. <i>Light: Science and Applications</i> , 2021, 10, 69.	16.6	42
4	Polarization assisted self-powered Ga _N -based UV photodetector with high responsivity. <i>Photonics Research</i> , 2021, 9, 734.	7.0	28
5	2â€‰Tbps free-space ultraviolet-C communication based on a high-bandwidth micro-LED achieved with pre-equalization. <i>Optics Letters</i> , 2021, 46, 2147.	3.3	42
6	A high-response ultraviolet photodetector by integrating Ga _N nanoparticles with graphene. <i>Journal of Alloys and Compounds</i> , 2021, 868, 159281.	5.5	15
7	Point Defects in Monolayer <i>h</i> -AlN as Candidates for Single-Photon Emission. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37380-37387.	8.0	7
8	Cation Vacancy in Wide Bandgap IIIâ€‰Nitrides as Singleâ€‰Photon Emitter: A Firstâ€‰Principles Investigation. <i>Advanced Science</i> , 2021, 8, e2100100.	11.2	8
9	Multiple-quantum-well-induced unipolar carrier transport multiplication in AlGa _N solar-blind ultraviolet photodiode. <i>Photonics Research</i> , 2021, 9, 1907.	7.0	13
10	Review on the Progress of AlGa _N -based Ultraviolet Light-Emitting Diodes. <i>Fundamental Research</i> , 2021, 1, 717-734.	3.3	20
11	Improved nucleation of AlN on <i>in situ</i> nitrogen doped graphene for Ga _N quasi-van der Waals epitaxy. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	22
12	Elimination of the internal electrostatic field in two-dimensional Ga _N -based semiconductors. <i>Npj 2D Materials and Applications</i> , 2020, 4, .	7.9	16
13	<i>In situ</i> fabrication of Al surface plasmon nanoparticles by metalâ€‰organic chemical vapor deposition for enhanced performance of AlGa _N deep ultraviolet detectors. <i>Nanoscale Advances</i> , 2020, 2, 1854-1858.	4.6	7
14	The formation mechanism of voids in physical vapor deposited AlN epilayer during high temperature annealing. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	28
15	Suppressing the luminescence of V-related point-defect in AlGa _N grown by MOCVD on HVPE-AlN. <i>Applied Surface Science</i> , 2020, 520, 146369.	6.1	6
16	Polarization-enhanced AlGa _N solar-blind ultraviolet detectors. <i>Photonics Research</i> , 2020, 8, 1243.	7.0	26
17	Construction of van der Waals substrates for largely mismatched heteroepitaxy systems using first principles. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	11
18	Suppressing the compositional non-uniformity of AlGa _N grown on a HVPE-AlN template with large macro-steps. <i>CrystEngComm</i> , 2019, 21, 4864-4873.	2.6	18

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19	Influence of Dislocations on the Refractive Index of AlN by Nanoscale Strain Field. <i>Nanoscale Research Letters</i> , 2019, 14, 184.	5.7	11
20	Carrier behavior in the vicinity of pit defects in GaN characterized by ultraviolet light-assisted Kelvin probe force microscopy. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	8
21	The defect evolution in homoepitaxial AlN layers grown by high-temperature metal-organic chemical vapor deposition. <i>CrystEngComm</i> , 2018, 20, 2720-2728.	2.6	25
22	Modulating the Surface State of SiC to Control Carrier Transport in Graphene/SiC. <i>Small</i> , 2018, 14, e1801273.	10.0	12
23	Defect evolution in AlN templates on PVD-AlN/sapphire substrates by thermal annealing. <i>CrystEngComm</i> , 2018, 20, 4623-4629.	2.6	39
24	Enhanced spectral response of an AlGaN-based solar-blind ultraviolet photodetector with Al nanoparticles. <i>Optics Express</i> , 2014, 22, 24286.	3.4	68
25	Influence of the growth temperature of AlN nucleation layer on AlN template grown by high-temperature MOCVD. <i>Materials Letters</i> , 2014, 114, 26-28.	2.6	70
26	In situ observation of two-step growth of AlN on sapphire using high-temperature metal-organic chemical vapour deposition. <i>CrystEngComm</i> , 2013, 15, 6066.	2.6	71
27	Realization of a High-Performance GaN UV Detector by Nanoplasmonic Enhancement. <i>Advanced Materials</i> , 2012, 24, 845-849.	21.0	243
28	Influence of threading dislocations on GaN-based metal-semiconductor-metal ultraviolet photodetectors. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	72
29	Improved performance of GaN metal-semiconductor-metal ultraviolet detectors by depositing SiO ₂ nanoparticles on a GaN surface. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	48