

Ke Jiang

List of Publications by Year in descending order

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29
papers

987
citations

516710

16
h-index

454955

30
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30
all docs

30
docs citations

30
times ranked

1113
citing authors

#	ARTICLE	IF	CITATIONS
1	Realization of a High-Performance GaN UV Detector by Nanoplasmonic Enhancement. <i>Advanced Materials</i> , 2012, 24, 845-849.	21.0	243
2	Influence of threading dislocations on GaN-based metal-semiconductor-metal ultraviolet photodetectors. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	72
3	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
4	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
5	Enhanced spectral response of an AlGaIn-based solar-blind ultraviolet photodetector with Al nanoparticles. <i>Optics Express</i> , 2014, 22, 24286.	3.4	68
6	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
7	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
8	20-Gbps 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
9	Defect evolution in AlN templates on PVD-AlN/sapphire substrates by thermal annealing. <i>CrystEngComm</i> , 2018, 20, 4623-4629.	2.6	39
10	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
11	Polarization assisted self-powered GaN-based UV photodetector with high responsivity. <i>Photonics Research</i> , 2021, 9, 734.	7.0	28
12	Polarization-enhanced AlGaIn solar-blind ultraviolet detectors. <i>Photonics Research</i> , 2020, 8, 1243.	7.0	26
13	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
14	Improved nucleation of AlN on <i>in situ</i> nitrogen doped graphene for GaN quasi-van der Waals epitaxy. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	22
15	Review on the Progress of AlGaIn-based Ultraviolet Light-Emitting Diodes. <i>Fundamental Research</i> , 2021, 1, 717-734.	3.3	20
16	Suppressing the compositional non-uniformity of AlGaIn grown on a HVPE-AlN template with large macro-steps. <i>CrystEngComm</i> , 2019, 21, 4864-4873.	2.6	18
17	Elimination of the internal electrostatic field in two-dimensional GaN-based semiconductors. <i>Npj 2D Materials and Applications</i> , 2020, 4, .	7.9	16
18	A high-response ultraviolet photodetector by integrating GaN nanoparticles with graphene. <i>Journal of Alloys and Compounds</i> , 2021, 868, 159281.	5.5	15

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19	Multiple-quantum-well-induced unipolar carrier transport multiplication in AlGaIn solar-blind ultraviolet photodiode. <i>Photonics Research</i> , 2021, 9, 1907.	7.0	13
20	Modulating the Surface State of SiC to Control Carrier Transport in Graphene/SiC. <i>Small</i> , 2018, 14, e1801273.	10.0	12
21	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
22	Influence of Dislocations on the Refractive Index of AlN by Nanoscale Strain Field. <i>Nanoscale Research Letters</i> , 2019, 14, 184.	5.7	11
23	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
24	Cation Vacancy in Wide Bandgap III-Nitrides as Single-Photon Emitter: A First-Principles Investigation. <i>Advanced Science</i> , 2021, 8, e2100100.	11.2	8
25	Hybrid metal/Ga ₂ O ₃ /GaN ultraviolet detector for obtaining low dark current and high responsivity. <i>Optics Letters</i> , 2022, 47, 1561.	3.3	8
26	<i>In situ</i> fabrication of Al surface plasmon nanoparticles by metal-organic chemical vapor deposition for enhanced performance of AlGaIn deep ultraviolet detectors. <i>Nanoscale Advances</i> , 2020, 2, 1854-1858.	4.6	7
27	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
28	Suppressing the luminescence of V-related point-defect in AlGaIn grown by MOCVD on HVPE-AlN. <i>Applied Surface Science</i> , 2020, 520, 146369.	6.1	6
29	Regulating the Valence Level Arrangement of High-Al-content AlGaIn Quantum Wells Using Additional Potentials with Mg Doping. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	1