

Tao Tao

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	White-Light GaN- λ /4LEDs Employing Green/Red Perovskite Quantum Dots as Color Converters for Visible Light Communication. <i>Nanomaterials</i> , 2022, 12, 627.	4.1	7
2	Epitaxial Growth and Characteristics of Nonpolar a-Plane InGaN Films with Blue-Green-Red Emission and Entire In Content Range. <i>Chinese Physics Letters</i> , 2022, 39, 048101.	3.3	4
3	C-Plane Blue Micro-LED With 1.53 GHz Bandwidth for High-Speed Visible Light Communication. <i>IEEE Electron Device Letters</i> , 2022, 43, 910-913.	3.9	23
4	Self-Assembly Nanopillar/Superlattice Hierarchical Structure: Boosting AlGaIn Crystalline Quality and Achieving High-Performance Ultraviolet Avalanche Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33525-33537.	8.0	4
5	Improved Optical Properties of Nonpolar AlGaIn-Based Multiple Quantum Wells Emitting at 280 nm. <i>IEEE Photonics Journal</i> , 2021, 13, 1-7.	2.0	3
6	High Performance Wide Angle DBR Design for Optoelectronic Devices. <i>IEEE Photonics Journal</i> , 2021, 13, 1-6.	2.0	6
7	Investigations of Sidewall Passivation Technology on the Optical Performance for Smaller Size GaN-Based Micro-LEDs. <i>Crystals</i> , 2021, 11, 403.	2.2	19
8	46.4: Fabrication of InGaIn/GaN-based nano-LEDs for display applications. <i>Digest of Technical Papers SID International Symposium</i> , 2021, 52, 568-568.	0.3	0
9	Growth and nitridation of λ^2 -Ga ₂ O ₃ thin films by Sol-Gel spin-coating epitaxy with post-annealing process. <i>Journal of Sol-Gel Science and Technology</i> , 2021, 100, 183-191.	2.4	10
10	Three-dimensional monolithic micro-LED display driven by atomically thin transistor matrix. <i>Nature Nanotechnology</i> , 2021, 16, 1231-1236.	31.5	120
11	1.26 W/mm Output Power Density at 10 GHz for Si ₃ N ₄ Passivated H-Terminated Diamond MOSFETs. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 5068-5072.	3.0	8
12	1 W/mm Output Power Density for H-Terminated Diamond MOSFETs With Al ₂ O ₃ /SiO ₂ /Bi-Layer Passivation at 2 GHz. <i>IEEE Journal of the Electron Devices Society</i> , 2021, 9, 160-164.	2.1	14
13	Monolithic 3D μ -LED displays through BEOL integration of large-area MoS ₂ TFT matrix. , 2021, , .		2
14	A Selective Etching Route for Large-Scale Fabrication of λ^2 -Ga ₂ O ₃ Micro-/Nanotube Arrays. <i>Nanomaterials</i> , 2021, 11, 3327.	4.1	7
15	Hybrid Light Emitters and UV Solar-Blind Avalanche Photodiodes based on III-Nitride Semiconductors. <i>Advanced Materials</i> , 2020, 32, e1904354.	21.0	34
16	Synthesis and Properties of InGaIn/GaN Multiple Quantum Well Nanowires on Si (111) by Molecular Beam Epitaxy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900729.	1.8	4
17	Improved Performance of Hybrid Organic/Inorganic p-n Heterojunction White Light-Emitting Diodes with 4,4'-Cyclohexane-1,1'-diylbis[N,N-bis(4-methylphenyl)aniline] as a Multifunctional Hole Transport Layer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900763.	1.8	0
18	High-Performance Semi-Polar InGaIn/GaN Green Micro Light-Emitting Diodes. <i>IEEE Photonics Journal</i> , 2020, 12, 1-7.	2.0	6

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19	Electron-Beam-Driven III-Nitride Plasmonic Nanolasers in the Deep-UV and Visible Region. <i>Small</i> , 2020, 16, 1906205.	10.0	10
20	Improved Performance of Hybrid Organic/Inorganic n Heterojunction White Light-Emitting Diodes with 4,4'-Cyclohexane-1,1'-diylbis[<i>N</i> -(4-methylphenyl)aniline] as a Multifunctional Hole Transport Layer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2070029.		0
21	Synthesis and Properties of InGaN/GaN Multiple Quantum Well Nanowires on Si (111) by Molecular Beam Epitaxy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2070028.	1.8	0
22	Solar-blind ultraviolet photodetector based on vertically aligned single-crystalline $\text{In}^{2-}\text{Ga}_{2-}\text{O}_{3-}$ nanowire arrays. <i>Nanophotonics</i> , 2020, 9, 4497-4503.	6.0	35
23	A High-Performance $\text{SiO}_{2-}/\text{SiN}_{x-}$ 1-D Photonic Crystal UV Filter Used for Solar-Blind Photodetectors. <i>IEEE Photonics Journal</i> , 2019, 11, 1-7.	2.0	3
24	Single-crystal GaN layer converted from $\text{In}^{2-}\text{Ga}_{2-}\text{O}_{3-}$ films and its application for free-standing GaN. <i>CrystEngComm</i> , 2019, 21, 1224-1230.	2.6	10
25	23.3: Invited Paper: Hybrid III-Nitride/Nanocrystals White Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 225-227.	0.3	0
26	Observation and Modeling of Leakage Current in AlGaIn Ultraviolet Light Emitting Diodes. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 1697-1700.	2.5	4
27	Lasers: Manipulable and Hybridized, Ultralow-Threshold Lasing in a Plasmonic Laser Using Elliptical InGaN/GaN Nanorods (<i>Adv. Funct. Mater.</i> 37/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	14.9	0
28	Manipulable and Hybridized, Ultralow-Threshold Lasing in a Plasmonic Laser Using Elliptical InGaN/GaN Nanorods. <i>Advanced Functional Materials</i> , 2017, 27, 1703198.	14.9	23
29	Enhanced InGaN/GaN photoelectrodes for visible-light-driven hydrogen generation by surface roughening. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2704-2708.	1.8	1
30	High Color Rendering Index Hybrid III-Nitride/Nanocrystals White Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2016, 26, 36-43.	14.9	58
31	Light-Emitting Diodes: High Color Rendering Index Hybrid III-Nitride/Nanocrystals White Light-Emitting Diodes (<i>Adv. Funct. Mater.</i> 1/2016). <i>Advanced Functional Materials</i> , 2016, 26, 156-156.	14.9	0
32	Polarized Emission From InGaN/GaN Single Nanorod Light-Emitting Diode. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 721-724.	2.5	9
33	Architectures and DFT calculations of polyrotaxane MOFs with nanoscale macrocycles. <i>Dalton Transactions</i> , 2016, 45, 3334-3339.	3.3	10
34	Significant improvements in InGaN/GaN nano-photoelectrodes for hydrogen generation by structure and polarization optimization. <i>Scientific Reports</i> , 2016, 6, 20218.	3.3	27
35	Asymmetric tunneling model of forward leakage current in GaN/InGaIn light emitting diodes. <i>AIP Advances</i> , 2015, 5, 087151.	1.3	12
36	Investigation of surface-plasmon coupled red light emitting InGaN/GaN multi-quantum well with Ag nanostructures coated on GaN surface. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	10

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37	Spatially localised luminescence emission properties induced by formation of ring-shaped quasi-potential trap around V-pits in InGaN epi-layers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2823-2827.	1.8	11
38	Investigation of surface plasmon coupling with the quantum well for reducing efficiency droop in GaN-based light emitting diodes. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	14