

Renjie Wang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Al _{0.3} InAsSb/Al _{0.7} InAsSb Digital Alloy <i>nBn</i> Photodetectors. Journal of Lightwave Technology, 2022, 40, 113-120.	4.6	5
2	Polarization-Engineered p-Type Electron-Blocking-Layer-Free III-Nitride Deep-Ultraviolet Light-Emitting Diodes for Enhanced Carrier Transport. Journal of Electronic Materials, 2022, 51, 838-846.	2.2	3
3	Infrared Al _{0.15} InAsSb Digital Alloy <i>nBn</i> Photodetectors. Journal of Lightwave Technology, 2022, 40, 3855-3863.	4.6	1
4	Selective area grown AlInGaN nanowire arrays with core-shell structures for photovoltaics on silicon. Nanoscale, 2021, 13, 8163-8173.	5.6	1
5	Dilute-antimonide GaSbN/GaN dots-in-wire heterostructures grown by molecular beam epitaxy: Structural and optical properties. Applied Physics Letters, 2021, 118, .	3.3	3
6	Demonstration of infrared <i>nBn</i> photodetectors based on the AlInAsSb digital alloy materials system. Applied Physics Letters, 2021, 119, .	3.3	7
7	30 th : Distinguished Paper: Sub-Micron Full-Color LED Pixels for Micro-Displays and Micro-LED Main Displays. Digest of Technical Papers SID International Symposium, 2020, 51, 432-435.	0.3	2
8	Decoupling Strategy for Enhanced Syngas Generation from Photoelectrochemical CO ₂ Reduction. IScience, 2020, 23, 101390.	4.1	19
9	Epitaxial Growth and Characterization of AlInN-Based Core-Shell Nanowire Light Emitting Diodes Operating in the Ultraviolet Spectrum. Scientific Reports, 2020, 10, 2547.	3.3	23
10	Submicron full-color LED pixels for microdisplays and micro-LED main displays. Journal of the Society for Information Display, 2020, 28, 410-417.	2.1	22
11	Enhancing the light extraction efficiency of AlInN nanowire ultraviolet light-emitting diodes with photonic crystal structures. Optics Express, 2020, 28, 22908.	3.4	14
12	Erbium-ytterbium co-doped aluminium oxide waveguide amplifiers fabricated by reactive co-sputtering and wet chemical etching. Optics Express, 2020, 28, 30130.	3.4	13
13	An SEM-Based Nanomanipulation System for Multi-Physical Characterization of Single InGaN/GaN Nanowires. , 2020, , .		1
14	Optically invariant InGaN nanowire light-emitting diodes on flexible substrates under mechanical manipulation. Npj Flexible Electronics, 2019, 3, .	10.7	18
15	Molecular Beam Epitaxy of III-Nitride Nanowires: Emerging Applications From Deep-Ultraviolet Light Emitters and Micro-LEDs to Artificial Photosynthesis. IEEE Nanotechnology Magazine, 2019, 13, 6-16.	1.3	10
16	Characterizing the electrical breakdown properties of single n-i-n+GaN nanowires. Applied Physics Letters, 2018, 113, .	3.3	4
17	InGaN nanowire integrated nanophotonics. , 2017, , .		1
18	Multi-color nanowire LEDs on a single chip. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
19	Full-Color Single Nanowire Pixels for Projection Displays. Nano Letters, 2016, 16, 4608-4615.	9.1	151
20	Tunable, full-color nanowire light emitting diode arrays monolithically integrated on Si and sapphire. Proceedings of SPIE, 2016, , .	0.8	14
21	(Invited) High Efficiency, Color-Tunable InGaN/GaN Nanowire Light Emitting Diode Arrays. ECS Meeting Abstracts, 2016, , .	0.0	0
22	High efficiency, full-color AlInGaN quaternary nanowire light emitting diodes with spontaneous core-shell structures on Si. Applied Physics Letters, 2015, 106, .	3.3	42
23	Color-tunable, phosphor-free InGaN nanowire light-emitting diode arrays monolithically integrated on silicon. Optics Express, 2014, 22, A1768.	3.4	82
24	Color Tunable Phosphor-Free InGaN/GaN/AlGaN Core-Shell Nanowire Light-Emitting Diodes on Silicon. , 2014, , .		1
25	High mobility single-crystalline-like germanium thin films on flexible, inexpensive substrates. Thin Solid Films, 2013, 527, 9-15.	1.8	16
26	Prefabricated Metal Nanorods on Biaxially-Textured Templates on Flexible Substrates for REBCO Superconductors. IEEE Transactions on Applied Superconductivity, 2013, 23, 6600705-6600705.	1.7	5
27	Optimization of a single crystalline-like germanium thin film growth on inexpensive flexible substrates and fabrication of germanium bottom junction. , 2013, , .		0
28	Epitaxial growth of (100) GaAs on CeOx coated flexible metal substrates. , 2012, , .		3
29	Novel single-crystalline-like germanium thin films on flexible, inexpensive substrates: Influence of architecture and film thickness. , 2011, , .		1