Renjie Wang

List of Publications by Year
in descending order

29 papers	464 citations	840776 11 h-index	713466 21 g-index
29 all docs	29 docs citations	29 times ranked	648 citing authors

#	Article	IF	Citations
1	Full-Color Single Nanowire Pixels for Projection Displays. Nano Letters, 2016, 16, 4608-4615.	9.1	151
2	Color-tunable, phosphor-free InGaN nanowire light-emitting diode arrays monolithically integrated on silicon. Optics Express, 2014, 22, A1768.	3.4	82
3	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
4	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
5	Submicron fullâ€color LED pixels for microdisplays and microâ€LED main displays. Journal of the Society for Information Display, 2020, 28, 410-417.	2.1	22
6	Decoupling Strategy for Enhanced Syngas Generation from Photoelectrochemical CO2 Reduction. IScience, 2020, 23, 101390.	4.1	19
7	Optically invariant InGaN nanowire light-emitting diodes on flexible substrates under mechanical manipulation. Npj Flexible Electronics, 2019, 3, .	10.7	18
8	High mobility single-crystalline-like germanium thin films on flexible, inexpensive substrates. Thin Solid Films, 2013, 527, 9-15.	1.8	16
9	Tunable, full-color nanowire light emitting diode arrays monolithically integrated on Si and sapphire. Proceedings of SPIE, 2016, , .	0.8	14
10	Enhancing the light extraction efficiency of AlInN nanowire ultraviolet light-emitting diodes with photonic crystal structures. Optics Express, 2020, 28, 22908.	3.4	14
11	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
12	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
13	Demonstration of infrared nBn photodetectors based on the AlInAsSb digital alloy materials system. Applied Physics Letters, 2021, 119, .	3.3	7
14	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
15	Al_{0.3}InAsSb/Al_{0.7}InAsSb Digital Alloy nBn Photodetectors. Journal of Lightwave Technology, 2022, 40, 113-120.	4.6	5
16	Characterizing the electrical breakdown properties of single n-i-n-n+:GaN nanowires. Applied Physics Letters, 2018, 113, .	3.3	4
17	Epitaxial growth of (100) GaAs on CeOx coated flexible metal substrates. , 2012, , .		3
18	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

#	Article	IF	Citations
19	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
20	Multi-color nanowire LEDs on a single chip. , 2017, , .		2
21	30â€3: Distinguished Paper: Subâ€Micron Fullâ€Color LED Pixels for Microâ€Displays and Microâ€LED Main Displays. Digest of Technical Papers SID International Symposium, 2020, 51, 432-435.	0.3	2
22	Novel single-crystalline-like germanium thin films on flexible, inexpensive substrates: Influence of architecture and film thickness. , 2011, , .		1
23	Color Tunable Phosphor-Free InGaN/GaN/AlGaN Core-Shell Nanowire Light-Emitting Diodes on Silicon. , 2014, , .		1
24	InGaN nanowire integrated nanophotonics. , 2017, , .		1
25	Selective area grown AlInGaN nanowire arrays with coreâ€“shell structures for photovoltaics on silicon. Nanoscale, 2021, 13, 8163-8173.	5.6	1
26	An SEM-Based Nanomanipulation System for Multi-Physical Characterization of Single InGaN/GaN Nanowires. , 2020, , .		1
27	Infrared Al_{0.15}InAsSb Digital Alloy Nbn Photodetectors. Journal of Lightwave Technology, 2022, 40, 3855-3863.	4.6	1
28	Optimization of a single crystalline-like germanium thin film growth on inexpensive flexible substrates and fabrication of germanium bottom junction. , 2013, , .		0
29	(Invited) High Efficiency, Color-Tunable InGaN/GaN Nanowire Light Emitting Diode Arrays. ECS Meeting Abstracts, 2016, , .	0.0	0