

Daniel Piedra

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

2,123
citations

623734

14
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940533

16
g-index

21
all docs

21
docs citations

21
times ranked

2011
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2018 GaN power electronics roadmap. Journal Physics D: Applied Physics, 2018, 51, 163001.	2.8	843
2	AlN metal-oxide semiconductor field-effect transistors using Si-ion implantation. Japanese Journal of Applied Physics, 2018, 57, 04FR11.	1.5	42
3	Materials and processing issues in vertical GaN power electronics. Materials Science in Semiconductor Processing, 2018, 78, 75-84.	4.0	112
4	Large Area 1.2 kV GaN Vertical Power FinFETs with a Record Switching Figure-of-Merit. IEEE Electron Device Letters, 2018, , 1-1.	3.9	69
5	Trench formation and corner rounding in vertical GaN power devices. Applied Physics Letters, 2017, 110, .	3.3	77
6	High-Performance 500 V Quasi- and Fully-Vertical GaN-on-Si pn Diodes. IEEE Electron Device Letters, 2017, 38, 248-251.	3.9	70
7	Reduction of on-resistance and current crowding in quasi-vertical GaN power diodes. Applied Physics Letters, 2017, 111, .	3.3	39
8	Vertical GaN Junction Barrier Schottky Rectifiers by Selective Ion Implantation. IEEE Electron Device Letters, 2017, 38, 1097-1100.	3.9	136
9	A new process approach for slant field plates in GaN-based high-electron-mobility transistors. Japanese Journal of Applied Physics, 2016, 55, 01AD02.	1.5	11
10	Advanced power electronic devices based on Gallium Nitride (GaN). , 2015, , .		6
11	Origin and Control of OFF-State Leakage Current in GaN-on-Si Vertical Diodes. IEEE Transactions on Electron Devices, 2015, 62, 2155-2161.	3.0	185
12	Current collapse suppression in AlGaIn/GaN HEMTs by means of slant field plates fabricated by multi-layer SiCN. Solid-State Electronics, 2014, 101, 63-69.	1.4	13
13	GaN-on-Si Vertical Schottky and p-n Diodes. IEEE Electron Device Letters, 2014, 35, 618-620.	3.9	154
14	Electrothermal Simulation and Thermal Performance Study of GaN Vertical and Lateral Power Transistors. IEEE Transactions on Electron Devices, 2013, 60, 2224-2230.	3.0	142
15	A Technology Overview of the PowerChip Development Program. IEEE Transactions on Power Electronics, 2013, 28, 4182-4201.	7.9	67
16	Scaling of InAlN/GaN power transistors. , 2012, , .		1
17	Comparative Breakdown Study of Mesa- and Ion-Implantation-Isolated AlGaIn/GaN High-Electron-Mobility Transistors on Si Substrate. Applied Physics Express, 2012, 5, 074202.	2.4	27
18	Novel junction level cooling in pulsed GaN devices. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
19	3000-V 4.3- $\text{m}\Omega \cdot \text{cm}^2$ InAlN/GaN MOSHEMTs With AlGaN Back Barrier. IEEE Electron Device Letters, 2012, 33, 982-984.	3.9	114
20	Integration of a phase change material for junction-level cooling in GaN devices. , 2012, , .		3
21	GaN power electronics. , 2010, , .		10