## Luca Nela

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

18 23 347 11 h-index g-index citations papers 610 26 7.8 4.37 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
23	Intrinsic Polarization Super Junctions: Design of Single and Multichannel GaN Structures. <i>IEEE Transactions on Electron Devices</i> , <b>2022</b> , 69, 1798-1804	2.9	2
22	A perspective on multi-channel technology for the next-generation of GaN power devices. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 190501	3.4	2
21	GaN-based power devices: Physics, reliability, and perspectives. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 181101	2.5	37
20	Figures-of-Merit of Lateral GaN Power Devices: Modeling and Comparison of HEMTs and PSJs. <i>IEEE Journal of the Electron Devices Society</i> , <b>2021</b> , 9, 1066-1075	2.3	3
19	Multi-channel nanowire devices for efficient power conversion. <i>Nature Electronics</i> , <b>2021</b> , 4, 284-290	28.4	18
18	High-Performance Enhancement-Mode AlGaN/GaN Multi-Channel Power Transistors 2021,		4
17	Ultra-compact, High-Frequency Power Integrated Circuits Based on GaN-on-Si Schottky Barrier Diodes. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 1269-1273	7.2	21
16	Conformal Passivation of Multi-Channel GaN Power Transistors for Reduced Current Collapse. <i>IEEE Electron Device Letters</i> , <b>2021</b> , 42, 86-89	4.4	11
15	P-GaN Tri-Gate MOS Structure for Normally-Off GaN Power Transistors. <i>IEEE Electron Device Letters</i> , <b>2021</b> , 42, 82-85	4.4	12
14	Performance of GaN Power Devices for Cryogenic Applications Down to 4.2 K. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 7412-7416	7.2	11
13	Impact of Embedded Liquid Cooling on the Electrical Characteristics of GaN-on-Si Power Transistors. <i>IEEE Electron Device Letters</i> , <b>2021</b> , 1-1	4.4	3
12	p-GaN field plate for low leakage current in lateral GaN Schottky barrier diodes. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 263508	3.4	3
11	Output-Capacitance Hysteresis Losses of Field-Effect Transistors <b>2020</b> ,		1
10	Bringing the Heat Sink Closer to the Heat: Evaluating Die-Embedded Microchannel Cooling of GaN-on-Si Power Devices <b>2020</b> ,		2
9	Fast-Switching Tri-Anode Schottky Barrier Diodes for Monolithically Integrated GaN-on-Si Power Circuits. <i>IEEE Electron Device Letters</i> , <b>2020</b> , 41, 99-102	4.4	16
8	\$C_{text{oss}}\$ Loss Tangent of Field-Effect Transistors: Generalizing High-Frequency Soft-Switching Losses. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 12585-12589	7.2	3
7	High-Frequency GaN-on-Si power integrated circuits based on Tri-Anode SBDs <b>2020</b> ,		2

## LIST OF PUBLICATIONS

6	tembedded Microchannel Cooling for High Power-Density GaN-on-Si Power Integrated Circuits <b>2020</b> ,		3
5	Co-designing electronics with microfluidics for more sustainable cooling. <i>Nature</i> , <b>2020</b> , 585, 211-216	50.4	137
4	. IEEE Transactions on Electron Devices, 2019, 66, 4068-4074	2.9	13
3	High-Performance Nanowire-Based E-Mode Power GaN MOSHEMTs With Large Work-Function Gate Metal. <i>IEEE Electron Device Letters</i> , <b>2019</b> , 40, 439-442	4.4	20
2	High-performance normally-off tri-gate GaN power MOSFETs 2019,		1
1	High-Voltage Normally-off Recessed Tri-Gate GaN Power MOSFETs With Low on-Resistance. <i>IEEE Electron Device Letters</i> , <b>2019</b> , 40, 1289-1292	4.4	22