

# Neville McNeill

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

397  
citations

1040056

9  
h-index

1199594

12  
g-index

22  
all docs

22  
docs citations

22  
times ranked

408  
citing authors

#	ARTICLE	IF	CITATIONS
1	A 6.7-GHz Active Gate Driver for GaN FETs to Combat Overshoot, Ringing, and EMI. IEEE Transactions on Power Electronics, 2018, 33, 581-594.	7.9	141
2	High-Frequency EMI Attenuation at Source With the Auxiliary Commutated Pole Inverter. IEEE Transactions on Power Electronics, 2018, 33, 5660-5676.	7.9	65
3	Design of 370-ps Delay Floating-Voltage Level Shifters With 30-V/ns Power Supply Slew Tolerance. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 688-692.	3.0	35
4	LV Converters: Improving Efficiency and EMI Using Si MOSFET MMC and Experimentally Exploring Slowed Switching. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 2159-2172.	5.4	32
5	Full Custom Design of an Arbitrary Waveform Gate Driver With 10-GHz Waypoint Rates for GaN FETs. IEEE Transactions on Power Electronics, 2021, 36, 8267-8279.	7.9	17
6	Shaping switching waveforms in a 650 V GaN FET bridge-leg using 6.7 GHz active gate drivers. , 2017, , .		15
7	Achieving Efficiencies Exceeding 99% in a Super-Junction 5-kW DC-DC Converter Power Stage Through the Use of an Energy Recovery Snubber and Dead-Time Optimization. IEEE Transactions on Power Electronics, 2018, 33, 7510-7520.	7.9	15
8	Study of Power Devices for Use in Phase-Leg at Cryogenic Temperature. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	11
9	Application of Reset Voltage Feedback for Droop Minimization in the Unidirectional Current Pulse Transformer. IEEE Transactions on Power Electronics, 2008, 23, 591-599.	7.9	10
10	Reduction of oscillations in a GaN bridge leg using active gate driving with sub-ns resolution, arbitrary gate-resistance patterns. , 2016, , .		10
11	Transient Test and AC Loss Study of a Cryogenic Propulsion Unit for All Electric Aircraft. IEEE Access, 2021, 9, 59628-59636.	4.2	10
12	Figure of merit for selecting super-junction MOSFETs in high efficiency voltage source converters. , 2015, , .		8
13	DC-DC converter with a high step-down ratio for water desalination applications. Journal of Engineering, 2019, 2019, 4545-4549.	1.1	5
14	Cryogenic DC/DC Converter for Superconducting Magnet Application. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	5
15	Performance comparison of 3-phase DC/AC converters using SiC MOSFETs or SiC BJTs. , 2017, , .		4
16	A simple technique to optimize SiC device selection for minimum loss. , 2017, , .		3
17	Evaluation of the off-State Base-Emitter Voltage Requirement of the SiC BJT With a Regenerative Proportional Base Driver Circuit and Their Application in an Inverter. IEEE Transactions on Industrial Electronics, 2020, 67, 7179-7189.	7.9	3
18	High Temperature Design Optimization of DC/AC Power Converters Using SiC BJTs. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
19	Auxiliary Resonant Source Charge Extraction Circuitry for Enabling the Use of Super Junction MOSFETs in High Efficiency DC-DC converters. , 2019, , .		2
20	A High-Efficiency Super-Junction MOSFET based Inverter-Leg Configuration using a Dual-Mode Switching Technique. , 2019, , .		2
21	Deploying SiC BJTs in an 800-V switched-mode power supply for hybrid & electric vehicles. , 2017, , .		1
22	A Super-Junction MOSFET-Based 99%+ Efficiency T-Type Multilevel Converter. , 2018, , .		1