

# Andrew N Lemmon

## List of Publications by Year in descending order

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45  
papers

607  
citations

933447

10  
h-index

888059

17  
g-index

45  
all docs

45  
docs citations

45  
times ranked

493  
citing authors

#	ARTICLE	IF	CITATIONS
1	Instability in Half-Bridge Circuits Switched With Wide Band-Gap Transistors. IEEE Transactions on Power Electronics, 2014, 29, 2380-2392.	7.9	131
2	Methodology for Characterization of Common-Mode Conducted Electromagnetic Emissions in Wide-Bandgap Converters for Ungrounded Shipboard Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 300-314.	5.4	44
3	Estimation, Minimization, and Validation of Commutation Loop Inductance for a 135-kW SiC EV Traction Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 286-297.	5.4	42
4	Parasitic extraction procedure for silicon carbide power modules. , 2015, , .		41
5	Characterization and Modeling of 10-kV Silicon Carbide Modules for Naval Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 309-322.	5.4	32
6	Comprehensive Characterization of 10-kV Silicon Carbide Half-Bridge Modules. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 1462-1473.	5.4	26
7	Modeling and Validation of Common-Mode Emissions in Wide Bandgap-Based Converter Structures. IEEE Transactions on Power Electronics, 2020, 35, 8034-8049.	7.9	26
8	ImagePAD, a novel counting application for the Apple iPad <sup>®</sup> , used to quantify axons in the Mouse Optic Nerve. Experimental Eye Research, 2014, 128, 102-108.	2.6	20
9	Analysis and Cancellation of Leakage Current Through Power Module Baseplate Capacitance. IEEE Transactions on Power Electronics, 2020, 35, 4678-4688.	7.9	19
10	Computational Efficiency Analysis of SiC MOSFET Models in SPICE: Static Behavior. IEEE Open Journal of Power Electronics, 2020, 1, 499-512.	5.7	16
11	Control and characterization of electromagnetic emissions in wide band gap based converter modules for ungrounded grid-forming applications. , 2016, , .		15
12	Computational Efficiency Analysis of SiC MOSFET Models in SPICE: Dynamic Behavior. IEEE Open Journal of Power Electronics, 2021, 2, 106-123.	5.7	14
13	Common-mode/differential-mode interactions in asymmetric converter structures. , 2017, , .		12
14	Behavioral modeling for stability in multi-chip power modules. , 2015, , .		11
15	Modeling of ZVS Transitions for Efficiency Optimization of the Phase-Shifted Full-Bridge Topology. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 529-544.	5.4	11
16	Modeling and Validation of Medium Voltage SiC Power Modules. , 2020, , .		11
17	Improved Methodology for Parasitic Characterization of High-Performance Power Modules. IEEE Transactions on Power Electronics, 2020, 35, 13400-13408.	7.9	10
18	Modeling and Validation of Fixture-Induced Error for Impedance Measurements. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 129-137.	4.7	9

#	ARTICLE	IF	CITATIONS
19	Design and Characterization of a Neutral-Point-Clamped Inverter Using Medium-Voltage Silicon Carbide Power Modules. , 2020, , .		8
20	EMI Evaluation of a SiC MOSFET Module with Organic DBC Substrate. , 2021, , .		8
21	Fast, configurable over-current protection for high-power modules. , 2015, , .		7
22	Multi-branch inductance extraction procedure for multi-chip power modules. , 2016, , .		7
23	Effects of parasitic inductance on performance of 600-V GaN devices. , 2017, , .		7
24	Cancellation of Leakage Currents through Power Module Baseplate Capacitance. , 2019, , .		7
25	Multibranch Inductance Extraction Procedure for Multichip Power Modules. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 272-285.	5.4	7
26	Comprehensive Characterization of MOSFET Intrinsic Capacitances. , 2021, , .		7
27	Methodology for the volume minimization in non-isolated SiC based PV inverters. , 2015, , .		6
28	Measurement-Based Modeling of Power Module Parasitics with Increased Accuracy. , 2020, , .		6
29	Application-focused modeling procedure for 1.2kV SiC MOSFET's. , 2017, , .		5
30	An automated SPICE modeling procedure utilizing static and dynamic characterization of power FETs. , 2018, , .		5
31	Gate drive development and empirical analysis of 10 kV SiC MOSFET modules. , 2015, , .		4
32	A SiC-based isolated DC/DC converter for high density data center applications. , 2018, , .		4
33	Utilization of Power Module Baseplate Capacitance for Common-Mode EMI Filter Reduction. , 2019, , .		4
34	Modeling and Validation of Conducted Emissions Trends in Medium-Voltage Power Electronic Systems. , 2020, , .		4
35	An Automated Model Tuning Procedure for Optimizing Prediction of Transient and Dispersive Behavior in Wide Bandgap Semiconductor FETs. IEEE Transactions on Power Electronics, 2020, 35, 12252-12263.	7.9	4
36	Optimization Algorithms for Dynamic Tuning of Wide Bandgap Semiconductor Device Models. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
37	Comparison of Methods for Switching Loss Estimation in WBG Systems. , 2019, , .		3
38	Design of an Absorptive High-Power PIN Diode Switch for an Ultra-Wideband Radar. IEEE Journal of Microwaves, 2022, 2, 286-296.	6.5	3
39	Improved Methodology for Parasitic Analysis of High-Performance Silicon Carbide Power Modules. IEEE Transactions on Power Electronics, 2022, 37, 12415-12425.	7.9	3
40	Technique for embedding current measurement and ringing suppression within multichip modules. , 2017, , .		2
41	Comparison of Medium-Voltage Oscilloscope Probes for Evaluating Silicon-Carbide Multi-Chip Power Modules. , 2020, , .		2
42	Bus Snubber Optimization for Multi-Chip Power Modules using SPICE Simulations. , 2019, , .		0
43	Experimental Validation of CT-Snubber for Multichip SiC MOSFET Power Module. , 2020, , .		0
44	Impact of Output Terminations on Conducted Emissions Evaluation of Interface Converters. , 2021, , .		0
45	Improved Methodology for Estimating Switching Losses of Wide Band-Gap Semiconductors Using Gaussian Curve Fitting. , 2022, , .		0