

Bernd Deutschmann

List of Publications by Year in descending order

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59
papers

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docs citations

65
times ranked

275
citing authors

#	ARTICLE	IF	CITATIONS
1	A Fault Tree Approach Focusing on Electromagnetic Interference. , 2022, , .		0
2	Influence of Layout Parasitics on EMI Improved Folded Cascode Amplifier Input Stages Using Compensation Methods. , 2022, , .		1
3	Preliminary Study on the Impact of Place and Route Strategy on FPGA Electromagnetic Emission. , 2021, , .		0
4	Drain Field Plate Impact on the Hard-Switching Performance of AlGaIn/GaN HEMTs. IEEE Transactions on Electron Devices, 2021, 68, 5003-5008.	1.6	8
5	Square Wave Shaper With Filter Characteristics to Reduce EMI and Passive Component Count. , 2021, , .		1
6	Hot electron effects in AlGaIn/GaN HEMTs during hard-switching events. Microelectronics Reliability, 2021, 126, 114208.	0.9	3
7	Influence of Layout Parasitics on EMI Improved Folded Cascode Amplifier Input Stages Using Filtering and Linearisation Methods. , 2021, , .		2
8	Voltage Dependence and Characterization of Ceramic Capacitors Under Electrical Stress. , 2020, , .		0
9	Hot-Electron Effects in AlGaIn/GaN HEMTs Under Semi-ON DC Stress. IEEE Transactions on Electron Devices, 2020, 67, 4602-4605.	1.6	41
10	A Bipolar $\hat{A}\pm 13$ mV Self-Starting and 85% Peak Efficiency DC/DC Converter for Thermoelectric Energy Harvesting. Energies, 2020, 13, 5501.	1.6	9
11	Comparison of EMI effects on different current mirror structures using a post-processing framework. Elektrotechnik Und Informationstechnik, 2020, 137, 93-99.	0.7	0
12	Investigation of SPICE Models for Overvoltage Protection Devices With Respect to Fast Transients. IEEE Letters on EMC Practice and Applications, 2019, 1, 20-25.	0.7	5
13	Comparison of BBSPICE to PEEC Equivalent Circuit Models for Simulation of Floating PCB Above Ground Plane. , 2019, , .		2
14	Band Specific Suppression of Harmonics and its Effects on Power Efficiency. , 2019, , .		2
15	Identification of EMI Induced Changes During the Design of ICs using a Post-Processing Framework. , 2019, , .		1
16	System-Level Assessment of Dynamic Effects in GaN-based Power Converters. , 2019, , .		0
17	A New Method for Measuring Parasitics of Super Junction Power MOSFETs. , 2019, , .		0
18	Comparison of Harmonic Suppression Techniques. , 2019, , .		0

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19	Survey on the Generation of Equivalent Circuit Cable Models for Transient Simulation. , 2019, , .		1
20	Optimized gate driver for high-frequency buck converter. Elektrotechnik Und Informationstechnik, 2018, 135, 40-47.	0.7	2
21	Design and theoretical comparison of input ESD devices in 180 nm CMOS with focus on low capacitance. Elektrotechnik Und Informationstechnik, 2018, 135, 69-75.	0.7	1
22	Intelligent NFC potassium measurement strip with hemolysis check in capillary blood. Elektrotechnik Und Informationstechnik, 2018, 135, 83-88.	0.7	6
23	On the Robustness of CMOS-Chopped Operational Amplifiers to Conducted Electromagnetic Interferences. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 478-486.	1.4	6
24	Fault state behavior of smart power devices during electromagnetic interference. , 2018, , .		1
25	A Temperature Analysis for NFC-Powered Smart Lab-on-Chip Devices. , 2018, , .		0
26	The shielding effect of a multi-cable harness as function of IC output termination impedance. , 2018, , .		5
27	Investigation of Spice Models for Overvoltage Protection Devices with Respect to Fast Transients. , 2018, , .		0
28	Emission reduction with spread spectrum clocking for switched capacitor buck converter. , 2018, , .		5
29	Time domain FEM computational approach for calibration of surface scan method. , 2018, , .		1
30	Impact of electromagnetic interference on the functional safety of smart power devices for automotive applications. Elektrotechnik Und Informationstechnik, 2018, 135, 352-359.	0.7	23
31	A system-on-chip NFC bicycle tire pressure measurement system. , 2017, , .		7
32	Adaptive current source driver for high-frequency boost converter to reduce EMI generation. , 2017, , .		3
33	Spread spectrum parameter optimization to suppress certain frequency spectral components. , 2017, , .		3
34	Adaptive current source driver for high-frequency boost converter. , 2017, , .		1
35	Autonomous maximum power point tracking algorithm for ultra-low power energy harvesting. , 2017, , .		2
36	Elimination of electromagnetic interference in communication channels by using spread spectrum techniques. , 2017, , .		3

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37	Computing the electromagnetic emission spectrum of pulses by convolution in frequency domain. , 2017, , .		0
38	Enhancement of the DPI method for IC immunity characterization. , 2017, , .		4
39	An EMI Receiver Model to Minimize Simulation Time of Long Data Transmissions. , 2016, , .		1
40	Intelligent plaster for accurate body temperature monitoring and investigations regarding EMI using near-field magnetic scan. Elektrotechnik Und Informationstechnik, 2016, 133, 25-31.	0.7	5
41	Highlighting the distribution path of transient disturbances by near field scanning techniques. Elektrotechnik Und Informationstechnik, 2016, 133, 18-24.	0.7	0
42	Characterization of the immunity of integrated circuits (ICs) at wafer level. , 2015, , .		1
43	Effects of single tone RF interferences on chopped operational amplifiers. , 2015, , .		1
44	Direct power injection (DPI) simulation framework and postprocessing. , 2015, , .		6
45	Prediction of the robustness of integrated circuits against EFT/BURST. , 2015, , .		6
46	EMI improved chopped operational amplifier. , 2015, , .		0
47	Simulation of radiated emission during the design phase based on scattering parameter measurement. , 2015, , .		4
48	Emission reduction in Class D audio amplifiers by optimizing spread spectrum modulation. , 2015, , .		7
49	EMI-receiver simulation model with quasi-peak detector. , 2015, , .		28
50	Energy harvesting with on-chip solar cells and integrated DC/DC converter. , 2015, , .		7
51	Electromagnetic evaluation of Class-D switching schemes. , 2015, , .		8
52	Impact of spread spectrum emi-reduction on audio performance of filterless Class-D amplifiers. , 2014, , .		2
53	Spread spectrum clocking for emission reduction of charge pump applications. , 2013, , .		6
54	Radiated immunity testing of integrated circuits in reverberation chambers. , 2012, , .		0

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55	Robustness of ESD protection structures against automotive transient disturbances. , 2010, , .		4
56	Methodology to Predict EME Effects in CAN Bus Systems Using VHDL-AMS. IEEE Transactions on Electromagnetic Compatibility, 2008, 50, 993-1002.	1.4	9
57	Analysis of conducted emissions in CAN bus systems with VHDL-AMS. , 2008, , .		4
58	Application of GTEM cells for IC EMC testing. , 2008, , .		2
59	Error of emission measurement of ICs due to imperfect termination of TEM Cell. , 2008, , .		0