Miguel RodrÃguez

List of Publications by Year
in descending order

34 papers	**1,402** citations	686830 **13** h-index	887659 **17** g-index
34 all docs	**34** docs citations	**34** times ranked	**1207** citing authors

#	Article	IF	Citations
1	Architectures and Control of Submodule Integrated DC–DC Converters for Photovoltaic Applications. IEEE Transactions on Power Electronics, 2013, 28, 2980-2997.	5.4	271
2	An Insight into the Switching Process of Power MOSFETs: An Improved Analytical Losses Model. IEEE Transactions on Power Electronics, 2010, 25, 1626-1640.	5.4	151
3	Performance of Power-Limited Differential Power Processing Architectures in Mismatched PV Systems. IEEE Transactions on Power Electronics, 2015, 30, 618-631.	5.4	146
4	High-Frequency PWM Buck Converters Using GaN-on-SiC HEMTs. IEEE Transactions on Power Electronics, 2014, 29, 2462-2473.	5.4	145
5	Very High Frequency PWM Buck Converters Using Monolithic GaN Half-Bridge Power Stages With Integrated Gate Drivers. IEEE Transactions on Power Electronics, 2016, 31, 7926-7942.	5.4	90
6	A Multiple-Input Digitally Controlled Buck Converter for Envelope Tracking Applications in Radiofrequency Power Amplifiers. IEEE Transactions on Power Electronics, 2010, 25, 369-381.	5.4	75
7	Comparison of virtual oscillator and droop control. , 2017, , .		63
8	Smart DC Power Management System Based on Software-Configurable Power Modules. IEEE Transactions on Power Electronics, 2013, 28, 1571-1586.	5.4	62
9	A Linear Assisted DC/DC Converter for Envelope Tracking and Envelope Elimination and Restoration Applications. IEEE Transactions on Power Electronics, 2012, 27, 3302-3309.	5.4	51
10	Average Inductor Current Sensor for Digitally Controlled Switched-Mode Power Supplies. IEEE Transactions on Power Electronics, 2012, 27, 3795-3806.	5.4	42
11	100 MHz, 20 V, 90% efficient synchronous buck converter with integrated gate driver. , 2014, , .		41
12	Simplified Voltage-Sag Filler for Line-Interactive Uninterruptible Power Supplies. IEEE Transactions on Industrial Electronics, 2008, 55, 3005-3011.	5.2	37
13	Simple Digital Pulse Width Modulator Under 100 ps Resolution Using General-Purpose FPGAs. IEEE Transactions on Power Electronics, 2013, 28, 4466-4472.	5.4	29
14	High-frequency integrated gate drivers for half-bridge GaN power stage. , 2014, , .		24
15	A high-efficiency bidirectional buck-boost DC-DC converter. , 2012, , .		23
16	Resonant Pulse-Shaping Power Supply for Radar Transmitters. IEEE Transactions on Power Electronics, 2014, 29, 707-718.	5.4	20
17	Architecture and control of PV modules with submodule integrated converters. , 2012, , .		16
18	A Switching-Mode Power Supply Design Tool to Improve Learning in a Power Electronics Course. IEEE Transactions on Education, 2011, 54, 104-113.	2.0	14

#	Article	IF	Citations
19	Self-Driven Synchronous Rectification System With Input Voltage Tracking for Converters With a Symmetrically Driven Transformer. IEEE Transactions on Industrial Electronics, 2009, 56, 1440-1445.	5.2	13
20	Modeling and digital control of LCLC resonant inverter with varying load. , 2011, , .		13
21	Efficient and Linear Amplification of Spectrally Confined Pulsed AM Radar Signals. IEEE Microwave and Wireless Components Letters, 2012, 22, 279-281.	2.0	13
22	Mismatch-Error Shaping-Based Digital Multiphase Modulator. IEEE Transactions on Power Electronics, 2012, 27, 2055-2066.	5.4	11
23	Monolithic very high frequency GaN switched-mode power converters. , 2015, , .		10
24	High frequency synchronous Buck converter using GaN-on-SiC HEMTs. , 2013, , .		7
25	Enhancements of the multiple input buck converter used for Envelope Tracking applications by improved output filter design and multiphase operation. , 2012, , .		6
26	Simulation and characterization of GaN HEMT in high-frequency switched-mode power converters. , 2012, , .		5
27	Bristol Ridge: A 28-nm $\times$ 86 Performance-Enhanced Microprocessor Through System Power Management. IEEE Journal of Solid-State Circuits, 2017, 52, 89-97.	3.5	5
28	Decentralized interleaving of paralleled dc-dc buck converters. , 2017, , .		5
29	Average current-mode control of Boost converters with bidirectional power transfer capabilities. , 2012, , .		4
30	Resonant pulse-shaping power supply for radar transmitters. , 2012, , .		3
31	RFPA supply modulator using wide-bandwidth linear amplifier with a GaN HEMT output stage. , 2013, , .		3
32	Using Adaptive Off-time Synchronous Rectification to improve efficiency in low output voltage converters. , 2010, , .		2
33	Mismatch-error noise-shaping based digital multiphase modulator. , 2010, , .		2
34	Enhancing the bandwidth of the Multiple Input Buck Converter by means of filter design. , 2012, , .		0