

# Miguel Rodríguez

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Comparison of virtual oscillator and droop control. , 2017, , .  |     | 63        |
| 2  | Bristol Ridge: A 28-nm \$imes\$ 86 Performance-Enhanced Microprocessor Through System Power Management. IEEE Journal of Solid-State Circuits, 2017, 52, 89-97.                   | 3.5 | 5         |
| 3  | Decentralized interleaving of paralleled dc-dc buck converters. , 2017, , .  |     | 5         |
| 4  | 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        |
| 5  | Monolithic very high frequency GaN switched-mode power converters. , 2015, , .   |     | 10        |
| 6  | Performance of Power-Limited Differential Power Processing Architectures in Mismatched PV Systems. IEEE Transactions on Power Electronics, 2015, 30, 618-631.                    | 5.4 | 146       |
| 7  | 100 MHz, 20 V, 90% efficient synchronous buck converter with integrated gate driver. , 2014, , .   |     | 41        |
| 8  | Resonant Pulse-Shaping Power Supply for Radar Transmitters. IEEE Transactions on Power Electronics, 2014, 29, 707-718.   | 5.4 | 20        |
| 9  | High-frequency integrated gate drivers for half-bridge GaN power stage. , 2014, , .  |     | 24        |
| 10 | High-Frequency PWM Buck Converters Using GaN-on-SiC HEMTs. IEEE Transactions on Power Electronics, 2014, 29, 2462-2473.  | 5.4 | 145       |
| 11 | RFPA supply modulator using wide-bandwidth linear amplifier with a GaN HEMT output stage. , 2013, , .  |     | 3         |
| 12 | Architectures and Control of Submodule Integrated DCâ€“DC Converters for Photovoltaic Applications. IEEE Transactions on Power Electronics, 2013, 28, 2980-2997.                 | 5.4 | 271       |
| 13 | Simple Digital Pulse Width Modulator Under 100Âps Resolution Using General-Purpose FPGAs. IEEE Transactions on Power Electronics, 2013, 28, 4466-4472.                           | 5.4 | 29        |
| 14 | High frequency synchronous Buck converter using GaN-on-SiC HEMTs. , 2013, , .  |     | 7         |
| 15 | Smart DC Power Management System Based on Software-Configurable Power Modules. IEEE Transactions on Power Electronics, 2013, 28, 1571-1586.                                      | 5.4 | 62        |
| 16 | Resonant pulse-shaping power supply for radar transmitters. , 2012, , .  |     | 3         |
| 17 | Average Inductor Current Sensor for Digitally Controlled Switched-Mode Power Supplies. IEEE Transactions on Power Electronics, 2012, 27, 3795-3806.                              | 5.4 | 42        |
| 18 | Architecture and control of PV modules with submodule integrated converters. , 2012, , .   |     | 16        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | 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        |
| 20 | Enhancing the bandwidth of the Multiple Input Buck Converter by means of filter design. , 2012, , .  |     | 0         |
| 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 | Simulation and characterization of GaN HEMT in high-frequency switched-mode power converters. , 2012, , .  |     | 5         |
| 23 | Average current-mode control of Boost converters with bidirectional power transfer capabilities. , 2012, , .   |     | 4         |
| 24 | A high-efficiency bidirectional buck-boost DC-DC converter. , 2012, , .  |     | 23        |
| 25 | Mismatch-Error Shaping-Based Digital Multiphase Modulator. IEEE Transactions on Power Electronics, 2012, 27, 2055-2066.  | 5.4 | 11        |
| 26 | Enhancements of the multiple input buck converter used for Envelope Tracking applications by improved output filter design and multiphase operation. , 2012, , .                                   |     | 6         |
| 27 | Modeling and digital control of LCLC resonant inverter with varying load. , 2011, , .  |     | 13        |
| 28 | 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        |
| 29 | 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        |
| 30 | 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       |
| 31 | Using Adaptive Off-time Synchronous Rectification to improve efficiency in low output voltage converters. , 2010, , .  |     | 2         |
| 32 | Mismatch-error noise-shaping based digital multiphase modulator. , 2010, , .   |     | 2         |
| 33 | 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        |
| 34 | Simplified Voltage-Sag Filler for Line-Interactive Uninterruptible Power Supplies. IEEE Transactions on Industrial Electronics, 2008, 55, 3005-3011.   | 5.2 | 37        |