

# Miguel A JosÃ© Prieto

## List of Publications by Year in descending order

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56  
papers

482  
citations

759233

12  
h-index

839539

18  
g-index

57  
all docs

57  
docs citations

57  
times ranked

538  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and analysis of thick-film integrated inductors for power converters. IEEE Transactions on Industry Applications, 2002, 38, 543-552.	4.9	37
2	Development of a Wireless Sensor Network for Individual Monitoring of Panels in a Photovoltaic Plant. Sensors, 2014, 14, 2379-2396.	3.8	33
3	Dynamic Modeling of the Solar Field in Parabolic Trough Solar Power Plants. Energies, 2015, 8, 13361-13377.	3.1	30
4	A Novel Modeling of Molten-Salt Heat Storage Systems in Thermal Solar Power Plants. Energies, 2014, 7, 6721-6740.	3.1	25
5	A multiwinding modeling method for high frequency transformers and inductors. IEEE Transactions on Power Electronics, 2003, 18, 896-906.	7.9	23
6	A modular strategy for isolated photovoltaic systems based on microcontroller. Renewable Energy, 2009, 34, 1825-1832.	8.9	23
7	A new full-protected control mode to drive piezoelectric transformers in DC-DC converters. IEEE Transactions on Power Electronics, 2002, 17, 1096-1103.	7.9	22
8	New Control Strategy of an Upâ€“Down Converter for Energy Recovery in a CDI Desalination System. IEEE Transactions on Power Electronics, 2014, 29, 3573-3581.	7.9	20
9	Design of integrated magnetic elements using thick-film technology. IEEE Transactions on Power Electronics, 1999, 14, 408-414.	7.9	19
10	New active input current shapers to allow AC-to-DC converters with asymmetrically driven transformers to comply with the IEC-1000-3-2. IEEE Transactions on Power Electronics, 2002, 17, 493-501.	7.9	18
11	Intelligent bidirectional power switch module for matrix converter applications. , 2007, , .		17
12	Development of Optimized Screen-Printed Immunosensors. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 2181-2188.	4.7	17
13	A very simple DC/DC converter using piezoelectric transformer. , 0, , .		15
14	A Mathematical Expression to Determine Copper Losses in Switching-Mode Power Supplies Transformers Including Geometry and Frequency Effects. IEEE Transactions on Power Electronics, 2015, 30, 2219-2231.	7.9	15
15	Closing a Second Feedback Loop in a DCâ€“DC Converter Based on a Piezoelectric Transformer. IEEE Transactions on Power Electronics, 2007, 22, 2195-2201.	7.9	12
16	LCC Resonant Multilevel Converter for X-ray Applications. Energies, 2017, 10, 1573.	3.1	11
17	A quick way to determine the optimum layer size and their disposition in magnetic structures. , 0, , .		9
18	Thick-Film Hybrid Technology for Low-Output-Voltage DC/DC Converter. IEEE Transactions on Industry Applications, 2004, 40, 86-93.	4.9	9

#	ARTICLE	IF	CITATIONS
19	Power Supply Based on Carbon Ultracapacitors for Remote Supervision Systems. IEEE Transactions on Industrial Electronics, 2010, 57, 3139-3147.	7.9	9
20	Analysis and design of a new constant frequency control for QRC and MRC based on magnetic elements modification. IEEE Transactions on Power Electronics, 1998, 13, 244-251.	7.9	8
21	A new speed measurement system. IEEE Industry Applications Magazine, 2005, 11, 44-51.	0.4	8
22	Magnetostrictive Sensor for Blockage Detection in Pipes Subjected to High Temperatures. Sensors, 2019, 19, 2382.	3.8	8
23	A Smart Power Meter to Recharge Electric Vehicles in Communal Parking Areas. IEEE Internet of Things Journal, 2019, 6, 3448-3454.	8.7	8
24	A new control strategy for an AC/DC converter based on a piezoelectric transformer. , 0, , .		7
25	Transcutaneous battery charger using a half bridge SRC controlled by resonant current phase. , 0, , .		7
26	A Digitally Controlled Power Converter for an Electrostatic Precipitator. Energies, 2017, 10, 2150.	3.1	7
27	Photobiomodulation rescues cognitive flexibility in early stressed subjects. Brain Research, 2019, 1720, 146300.	2.2	7
28	Equipment for Repetitive Transcranial Magnetic Stimulation. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 525-534.	4.0	7
29	Filament Power Supply for Electron Beam Welding Machine. IEEE Transactions on Industrial Electronics, 2015, 62, 1421-1430.	7.9	6
30	Turn-Coupling in Thick-Film Integrated Magnetic Components for Power Converters. IEEE Transactions on Components and Packaging Technologies, 2008, 31, 837-848.	1.3	5
31	Development of Magnetostrictive Transducer Prototype for Blockage Detection on Molten Salt Pipes. Energies, 2018, 11, 587.	3.1	5
32	Quantum mode control for piezoelectric transformers in AC/DC applications. , 0, , .		4
33	Development of a deceleration control system for a winding machine based on a microcontroller. IEEE Transactions on Industry Applications, 2002, 38, 1226-1231.	4.9	4
34	A large-signal model for the PRC-LCC resonant topology with a capacitor as output filter. , 0, , .		4
35	High-frequency magnetic elements design tool. , 0, , .		3
36	Closing a second feedback loop in DC/DC converters based on piezoelectric transformers. , 0, , .		3

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37	New Family of ZVS QRC and MRC with PWM Control Based on Magnetic Elements Modification. EPE Journal (European Power Electronics and Drives Journal), 1999, 8, 25-32.	0.7	2
38	Continuous measurement of zinc coating on steel wires. IEEE Transactions on Industry Applications, 2001, 37, 928-933.	4.9	2
39	High-voltage DC/DC converter 10KV, 600W with digital output voltage monitoring. , 2013, , .		2
40	On the Convenience of Using Simulation Models to Optimize the Control Strategy of Molten-Salt Heat Storage Systems in Solar Thermal Power Plants. Energies, 2017, 10, 990.	3.1	2
41	Estimation of Blockage Position, Geometry, and Solidity in Molten Salt Pipelines. Sensors, 2020, 20, 3490.	3.8	2
42	Thick-film hybrid technology for low output voltage DC/DC converter. , 0, , .		1
43	Improving energy recovery in CDI systems. , 2013, , .		1
44	Electronic Control of a Novel System for Lifting Large Structures. IEEE Transactions on Industry Applications, 2014, 50, 4260-4271.	4.9	1
45	Modeling a multilevel converter for radiography and fluoroscopy. , 2016, , .		1
46	Optimizing the control strategy of molten-salt heat storage systems in thermal solar power plants. , 2016, , .		1
47	Driving piezoelectric-transformer-based DC/DC converters using pulse density modulation. , 2017, , .		1
48	Real-Time Automatic Calculation of Euro Coins and Banknotes in a Cash Drawer. Sensors, 2019, 19, 2623.	3.8	1
49	Zinc coating control on steel wires. IEEE Industry Applications Magazine, 2002, 8, 34-38.	0.4	0
50	Paralleling DC/DC Switched Converters Based on Piezoelectric Transformers. , 2009, , .		0
51	Electronic control of a novel system for lifting large structures. , 2013, , .		0
52	Equivalent Electrical Model and Software Tool for SPICE-Compatible Thermal Simulations of High-Power Resistors. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 859-869.	2.5	0
53	Li-Po Battery Charger Based on the Constant Current/Voltage Parallel Resonant Converter Operating in ZVS. Energies, 2018, 11, 951.	3.1	0
54	Evaluation of Visuospatial Short-term and Working Memory from the First to Second Year of Life: A Novel Task. Developmental Neuropsychology, 2021, 46, 16-32.	1.4	0

#	ARTICLE	IF	CITATIONS
55	Estimating the location of plugs in molten-salt pipes. , 2020, , .		0
56	Wireless LLC converter for electric bicycle. , 2020, , .		0