

Juan Ángel Martínez

List of Publications by Year in descending order

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51
papers

583
citations

840776

11
h-index

677142

22
g-index

53
all docs

53
docs citations

53
times ranked

550
citing authors

#	ARTICLE	IF	CITATIONS
1	Power Supply for a High-Voltage Application. IEEE Transactions on Power Electronics, 2008, 23, 1608-1619.	7.9	151
2	Analysis and experimental results of a single-stage high-power-factor electronic ballast based on flyback converter. IEEE Transactions on Power Electronics, 1999, 14, 998-1006.	7.9	40
3	Up-Down Converter for Energy Recovery in a CDI Desalination System. IEEE Transactions on Power Electronics, 2012, 27, 3257-3265.	7.9	32
4	Dynamic Modeling of the Solar Field in Parabolic Trough Solar Power Plants. Energies, 2015, 8, 13361-13377.	3.1	30
5	Voltage-follower control in zero-current-switched quasi-resonant power factor preregulators. IEEE Transactions on Power Electronics, 1998, 13, 727-738.	7.9	29
6	A High-Voltage AC/DC Resonant Converter Based on PRC With Single Capacitor as an Output Filter. IEEE Transactions on Industry Applications, 2010, 46, 2134-2142.	4.9	25
7	A Novel Modeling of Molten-Salt Heat Storage Systems in Thermal Solar Power Plants. Energies, 2014, 7, 6721-6740.	3.1	25
8	A modular strategy for isolated photovoltaic systems based on microcontroller. Renewable Energy, 2009, 34, 1825-1832.	8.9	23
9	Optimal Control of a High-Voltage Power Supply Based on the PRC-LCC Topology With a Capacitor as Output Filter. IEEE Transactions on Industry Applications, 2013, 49, 2323-2329.	4.9	23
10	High frequency repetitive transcranial magnetic stimulation improves neuronal activity without affecting astrocytes and microglia density. Brain Research Bulletin, 2019, 150, 13-20.	3.0	22
11	Average current mode control of series-switching post-regulators used in power factor correctors. IEEE Transactions on Power Electronics, 2000, 15, 813-819.	7.9	20
12	Energy-Recovery Optimization of an Experimental CDI Desalination System. IEEE Transactions on Industrial Electronics, 2016, 63, 1586-1597.	7.9	12
13	Multilevel PRC-LCC resonant converter for X-ray generation. Electronics Letters, 2015, 51, 1189-1191.	1.0	11
14	Power Supply Based on Carbon Ultracapacitors for Remote Supervision Systems. IEEE Transactions on Industrial Electronics, 2010, 57, 3139-3147.	7.9	9
15	Power Factor Correction Using Zero-Current-Switched Quasi-Resonant Converters with Voltage-Follower and Multiplier Approach Control. EPE Journal (European Power Electronics and) Tj ETQq1 1 0.784317 rgBT /@verlock		
16	A new low-cost control technique for power factor correctors operating in continuous conduction mode. , 0, , .		8
17	A micropump for pulmonary blood flow regulation. IEEE Industrial Electronics Magazine, 2007, 1, 39-44.	2.6	8
18	The forward discharge converter (FDC): a general solution to obtain soft-switching in any power converter. , 0, , .		7

#	ARTICLE	IF	CITATIONS
19	Transcutaneous battery charger using a half bridge SRC controlled by resonant current phase. , 0, , .		7
20	A Digitally Controlled Power Converter for an Electrostatic Precipitator. <i>Energies</i> , 2017, 10, 2150.	3.1	7
21	Photobiomodulation rescues cognitive flexibility in early stressed subjects. <i>Brain Research</i> , 2019, 1720, 146300.	2.2	7
22	Equipment for Repetitive Transcranial Magnetic Stimulation. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2020, 14, 525-534.	4.0	7
23	Filament Power Supply for Electron Beam Welding Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2015, 62, 1421-1430.	7.9	6
24	Heat Transfer Fluid Temperature Control in a Thermoelectric Solar Power Plant. <i>Energies</i> , 2017, 10, 1078.	3.1	6
25	Comparative Modeling of a Parabolic Trough Collectors Solar Power Plant with MARS Models. <i>Energies</i> , 2018, 11, 37.	3.1	6
26	Photobiomodulation effects on active brain networks during a spatial memory task. <i>Physiology and Behavior</i> , 2021, 230, 113291.	2.1	6
27	No Effects of Photobiomodulation on Prefrontal Cortex and Hippocampal Cytochrome C Oxidase Activity and Expression of c-Fos Protein of Young Male and Female Rats. <i>Frontiers in Neuroscience</i> , 2022, 16, .	2.8	6
28	Turn-Coupling in Thick-Film Integrated Magnetic Components for Power Converters. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2008, 31, 837-848.	1.3	5
29	Optimal control of a high voltage power supply based on the PRC-LCC topology with a capacitor as output filter. , 2011, , .		5
30	Average current mode control of series-switched post-regulators used in power factor correctors. , 0, , .		4
31	Transcutaneous microvalve activation system using a coreless transformer. <i>Sensors and Actuators A: Physical</i> , 2007, 136, 313-320.	4.1	4
32	A Smart Band for Automatic Supervision of Restrained Patients in a Hospital Environment. <i>Sensors</i> , 2020, 20, 5211.	3.8	4
33	Development of visuospatial memory in preterm infants: A new paradigm to assess short-term and working memory. <i>Child Neuropsychology</i> , 2021, 27, 296-316.	1.3	3
34	A novel low-cost high-power-factor integrated ballast for fluorescent lamps. , 0, , .		2
35	On the Convenience of Using Simulation Models to Optimize the Control Strategy of Molten-Salt Heat Storage Systems in Solar Thermal Power Plants. <i>Energies</i> , 2017, 10, 990.	3.1	2
36	Estimation of Blockage Position, Geometry, and Solidity in Molten Salt Pipelines. <i>Sensors</i> , 2020, 20, 3490.	3.8	2

#	ARTICLE	IF	CITATIONS
37	Educational workbench for testing the control techniques of switched DC/DC convertors. , 0, , .		1
38	Analysis of the zero-current-switched quasi-resonant SEPIC used as power factor preregulator with voltage-follower control. , 0, , .		1
39	A New Electronic Tonometer for Ocular Epipalpebral Measurements. IEEE Transactions on Biomedical Engineering, 2008, 55, 1550-1559.	4.2	1
40	A High- Voltage AC/DC Resonant Converter Based on PRC with Single Capacitor as an Output Filter. , 2009, , .		1
41	Improving energy recovery in CDI systems. , 2013, , .		1
42	Modeling a multilevel converter for radiography and fluoroscopy. , 2016, , .		1
43	Optimizing the control strategy of molten-salt heat storage systems in thermal solar power plants. , 2016, , .		1
44	Driving piezoelectric-transformer-based DC/DC converters using pulse density modulation. , 2017, , .		1
45	A power converter for an electrostatic precipitator using SiC MOSFETs. , 2017, , .		1
46	Online Monitoring Of Capacitors In Power Converters. EletrÃnica De PotÃancia, 2011, 16, 177-186.	0.1	1
47	High quality power factor correctors based on series-switching post-regulators. , 0, , .		0
48	Intracorporeal microvalve activation system using a transcutaneous parallel resonant converter without magnetic core. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	0
49	Optimized control of the Solar Field in parabolic trough solar power plants. , 2016, , .		0
50	Study of the Effect of Lighting Technology in Texture Classification Systems. , 0, , .		0
51	Estimating the location of plugs in molten-salt pipes. , 2020, , .		0