

# Antonio Calleja

## List of Publications by Year in descending order

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76  
papers

1,362  
citations

516710

16  
h-index

454955

30  
g-index

76  
all docs

76  
docs citations

76  
times ranked

736  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Universal-Input Single-Stage High-Power-Factor Power Supply for HB-LEDs Based on Integrated Buck-Flyback Converter. IEEE Transactions on Industrial Electronics, 2011, 58, 589-599.	7.9	185
2	Analysis, Design, and Experimentation on Constant-Frequency DC-DC Resonant Converters With Magnetic Control. IEEE Transactions on Power Electronics, 2012, 27, 1369-1382.	7.9	88
3	A Universal-Input Single-Stage High-Power-Factor Power Supply for HB-LEDs Based on Integrated Buck-Flyback Converter. , 2009, , .		85
4	Analysis, Design, and Experimentation of a High-Voltage Power Supply for Ozone Generation Based on Current-Fed Parallel-Resonant Push-Pull Inverter. IEEE Transactions on Industry Applications, 2005, 41, 1364-1372.	4.9	79
5	Interleaved Buck Converter for Fast PWM Dimming of High-Brightness LEDs. IEEE Transactions on Power Electronics, 2011, 26, 2627-2636.	7.9	75
6	Evaluation of a Low-Cost Permanent Emergency Lighting System Based on High-Efficiency LEDs. IEEE Transactions on Industry Applications, 2005, 41, 1386-1390.	4.9	63
7	High Frequency Testing and Modeling of Silent Discharge Ozone Generators. Ozone: Science and Engineering, 2003, 25, 363-376.	2.5	49
8	Electronic driver without electrolytic capacitor for dimming High Brightness LEDs. , 2009, , .		44
9	Reducing storage capacitance in off-line LED power supplies by using integrated converters. , 2012, , .		42
10	Analysis and Design of a Novel Single-Stage High-Power-Factor Electronic Ballast Based on Integrated Buck Half-Bridge Resonant Inverter. IEEE Transactions on Power Electronics, 2004, 19, 550-559.	7.9	41
11	A Study on LED Retrofit Solutions for Low-Voltage Halogen Cycle Lamps. IEEE Transactions on Industry Applications, 2012, 48, 1673-1682.	4.9	37
12	Development of a distributive control scheme for fluorescent lighting based on LonWorks technology. IEEE Transactions on Industrial Electronics, 2000, 47, 1253-1262.	7.9	34
13	New control strategy in a square-wave inverter for low wattage metal halide lamp supply to avoid acoustic resonances. IEEE Transactions on Power Electronics, 2006, 21, 243-253.	7.9	29
14	A long-life high-power-factor HPS-lamp LED retrofit converter based on the integrated buck-boost buck topology. , 2011, , .		29
15	Low-cost single-stage electronic ballast based on a self-oscillating resonant inverter integrated with a buck-boost PFC circuit. IEEE Transactions on Industrial Electronics, 2001, 48, 1196-1204.	7.9	25
16	Comparison Among Power LEDs for Automotive Lighting Applications. , 2008, , .		24
17	Using Tapped-Inductor Converters as LED Drivers. Conference Record - IAS Annual Meeting (IEEE) Tj ETQq1 1 0.784314 rgBT /Overloc 0.0 21		21
18	A Novel Flyback-Based Input PFC Stage for Electronic Ballasts in Lighting Applications. IEEE Transactions on Industry Applications, 2013, 49, 769-777.	4.9	21

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19	Minimization of Acoustic Resonances in HID Lamps: Analysis and Comparison of Power Harmonics Content in High Frequency Non-Resonant Inverters. IEEE Transactions on Power Electronics, 2005, 20, 1467-1479.	7.9	20
20	Complete Low-Cost Two-Stage Electronic Ballast for 70-W High-Pressure Sodium Vapor Lamp Based on Current-Mode-Controlled Buck-Boost Inverter. IEEE Transactions on Industry Applications, 2005, 41, 728-734.	4.9	20
21	Development of a high-voltage closed-loop power supply for ozone generation. , 2008, , .		18
22	Electronic ballast based on single-stage high-power-factor topologies: a comparative study. , 0, , .		17
23	Design and experimental results of an input-current-shaper based electronic ballast. IEEE Transactions on Power Electronics, 2003, 18, 547-557.	7.9	17
24	High-power-factor light-emitting diode lamp power supply without electrolytic capacitors for high-pressure-sodium lamp retrofit applications. IET Power Electronics, 2013, 6, 1502-1515.	2.1	16
25	Advancing Towards Digital Control for Low Cost High Power LED Drivers. , 2007, , .		15
26	Small-Signal Analysis of a Low-Cost Power Control for LCC Series-Parallel Inverters With Resonant Current Mode Control for HID Lamps. IEEE Transactions on Power Electronics, 2005, 20, 1205-1212.	7.9	14
27	Arc Dynamic Stabilization in Low-Frequency Square-Wave Electronic Ballast for Metal Halide Lamps. IEEE Transactions on Power Electronics, 2007, 22, 1592-1599.	7.9	14
28	Series Igniters Effects in Metal Halide Lamps Operation With High Frequency Ballasts: Study and Minimization. IEEE Transactions on Power Electronics, 2007, 22, 889-898.	7.9	14
29	Enerlight project: Walking from electronic lighting systems to Lighting Smart Grid. , 2013, , .		12
30	Low cost electronic ballast for a 36-W fluorescent lamp based on a current-mode-controlled boost inverter for a 120-V DC bus power distribution. IEEE Transactions on Power Electronics, 2006, 21, 1099-1106.	7.9	11
31	Eddy-current sensing of superparamagnetic nanoparticles with spiral-like copper circuits. Sensors and Actuators A: Physical, 2014, 216, 123-127.	4.1	11
32	LED Series Current Regulator Based on a Modified Class-E Resonant Inverter. IEEE Transactions on Industrial Electronics, 2018, 65, 9488-9497.	7.9	11
33	Design and implementation of an electronic ballast for UV-based ozone generation using a low cost microcontroller. , 0, , .		10
34	Acoustic resonance characterization of lowwattage metal-halide lamps under low-frequency square-waveform operation. , 0, , .		10
35	Low-Cost PFC Electronic Ballast for 250W HID Lamps Operating as Constant Power Source with 400 kHz Switching Frequency. , 2005, , .		10
36	Design Optimization of the LCC Parallel-Series Inverter With Resonant Current Mode Control for 250-W HPS Lamp Ballast. IEEE Transactions on Power Electronics, 2005, 20, 1197-1204.	7.9	10

#	ARTICLE	IF	CITATIONS
37	High Frequency Electronic Ballast for Metal Halide Lamps Based on a PLL Controlled Class E Resonant Inverter. , 0, , .		10
38	A Fluorescent Lamp Electronic Ballast for Railway Applications Based on Low-Cost Microcontroller. IEEE Transactions on Industry Applications, 2005, 41, 1391-1400.	4.9	10
39	Small signal characterization of fluorescent lamps in dimmed operation. , 2009, , .		9
40	eWRE project: Overview and proposed modules. Workrooms Journal, 2016, 1, .	0.0	9
41	Integrated driver for power LEDs. , 2010, , .		8
42	A novel flyback-based input PFC stage for electronic ballasts in lighting applications. , 2011, , .		8
43	Analysis and design of a low-power high-voltage high-frequency power supply for ozone generation. , 0, , .		5
44	Pitfalls in Low Voltage LED Drivers Design using Tapped-Inductor Converters. , 2007, , .		5
45	Electrode characterization in dimmed operation of fluorescent lamps. , 2010, , .		5
46	Low ripple interleaved converter for fast PWM dimming of power LEDs. , 2010, , .		5
47	Using a power-dependent small-signal model for stability analysis in resonant dimming ballasts for fluorescent lamps. , 2011, , .		5
48	Cosine Phase Droop Control (CPDC) for the Dual-Active Bridge in lighting smart grids applications. , 2016, , .		5
49	Using high frequency current square waveforms to avoid acoustic resonances in low wattage metal halide lamps. , 0, , .		4
50	Analysis, design and experimentation of a high voltage power supply for ozone generation based on the current-fed parallel-resonant push-pull inverter. , 0, , .		4
51	Single-Switch Offline Ballast With PFC for Low-Wattage Metal Halide Lamps. IEEE Transactions on Industry Applications, 2010, 46, 2212-2221.	4.9	4
52	Low cost intelligent LED driver for public Lighting Smart Grids. , 2013, , .		4
53	Single-Switch LED Post-Regulator Based on a Modified Class-E Resonant Converter with Voltage Clamp. Electronics (Switzerland), 2019, 8, 798.	3.1	4
54	Permanent Emergency LED Lamp Based on a Series Single-Switch Resonant Converter With Battery Clamp. IEEE Transactions on Industrial Electronics, 2022, 69, 9992-10000.	7.9	4

#	ARTICLE	IF	CITATIONS
55	Dynamic modeling of high frequency resonant inverters for the implementation of closed loop electronic ballasts. , 0, , .		3
56	Fluorescent Lamp Ballast based on a Class-E Resonant Inverter Using a Piezoelectric Transformer. , 2006, , .		3
57	Temperature effects on the small-signal characteristics of fluorescent lamps. , 2012, , .		3
58	Power-Dependent Small-Signal Model for Fluorescent Lamps Based on a Double-Pole Double-Zero Transfer Function. IEEE Transactions on Industry Applications, 2013, 49, 341-347.	4.9	3
59	Control of public dc street/road lighting microgrids with microgeneration and storage capability based on a power-line signaling dependent droop. , 2016, , .		3
60	Closed Loop Control of a Series Class-E Voltage-Clamped Resonant Converter for LED Supply with Dimming Capability. Electronics (Switzerland), 2019, 8, 1380.	3.1	3
61	A novel HPF electronic ballast based on integrated buck half bridge resonant inverter. , 0, , .		2
62	A Grid Semantic Approach for a Digital Archive Integrated Architecture. , 0, , .		2
63	A study on LED retrofit solutions for low-voltage halogen cycle lamps. , 2011, , .		2
64	Power-dependent small-signal model for fluorescent lamps based on a double-pole double-zero transfer function. , 2011, , .		2
65	Minimization of current harmonics content in conventional lighting distribution lines without current sensing. , 2013, , .		2
66	A methodology for LED placement in luminaires without lenses for optimal illumination of complex target areas. Energy Efficiency, 2018, 11, 1041-1051.	2.8	2
67	Design of Resonant Igniters for Metal Halide Lamps Supplied with High Frequency Square Waveform Inverters. , 2008, , .		1
68	Suitable Switching Converter Topologies for Automotive Signal Lamps and Headlamps Using Power LEDs. , 2008, , .		1
69	Improved composite for tires of urban electric vehicles. , 2013, , .		1
70	Arc Stabilization in Metal Halide Lamps using a Post-Regulator Working at the Zero-Duty-Cycle Boundary. , 2007, , .		0
71	LED Permanent Emergency Lighting System based on a single magnetic component. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	0
72	Single Switch Off-Line Ballast With PFC for Low Metal Halide Lamps. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
73	Interleaved inverter for HF ripple cancellation in metal halide lamps. , 2010, , .		0
74	Workroom on renewable energy: A new way to learn and develop the imagination creating concepts. , 2013, , .		0
75	Improving current equalization in energy storage systems for lighting smart grids applications with the bidirectional one-leg converter. Workrooms Journal, 2017, 1, .	0.0	0
76	Water Tunnel to test and characterization of experimental designs of Hydrokinetics Turbines. Workrooms Journal, 2018, 1, .	0.0	0