

Huang-Jen Chiu

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119
papers

1,562
citations

19
h-index

35
g-index

155
ext. papers

1,918
ext. citations

3.8
avg, IF

4.8
L-index

102	Quarter-Turn Transformer Design and Optimization for High Power Density 1-MHz LLC Resonant Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 1580-1591	8.9	22
101	A Dual-Mode Controller for the Boost PFC Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 369-372	8.9	21
100	Analysis and Design of a PushPull Quasi-Resonant Boost Power Factor Corrector. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 347-356	7.2	18
99	A DSP-based single-stage maximum power point tracking PV inverter 2010 ,		18
98	Single-Stage Voltage Source Charge-Pump Electronic Ballast With Switched-Capacitor Dimmer for Multiple Fluorescent Lamps. <i>IEEE Transactions on Industrial Electronics</i> , 2007 , 54, 2915-2918	8.9	18
97	Efficiency optimisation of ZVS isolated bidirectional DAB converters. <i>IET Power Electronics</i> , 2018 , 11, 1499-1506	2.2	17
96	A fuzzy control maximum power point tracking photovoltaic system 2011 ,		15
95	A single-stage LED lamp driver with low DC bus voltage for general lighting applications. <i>International Journal of Circuit Theory and Applications</i> , 2011 , 39, 1161-1175	2	15
94	A novel low-loss control strategy for bidirectional DCDC converter. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 1801-1813	2	14
93	. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 1266-1275	7.2	14
92	Study on an interleaved buck power factor corrector with gallium nitride field effect transistor and integrated inductor. <i>IET Power Electronics</i> , 2014 , 7, 2506-2516	2.2	14
91	On evaluating the current distortion of the single-phase switch-mode rectifiers with current slope maps. <i>IEEE Transactions on Industrial Electronics</i> , 2002 , 49, 1128-1137	8.9	14
90	Dimmable light-emitting diode driver with cascaded current regulator and voltage source. <i>IET Power Electronics</i> , 2015 , 8, 1305-1311	2.2	13
89	A battery charger with maximum power point tracking function for low-power photovoltaic system applications. <i>International Journal of Circuit Theory and Applications</i> , 2011 , 39, 241-256	2	13
88	Analysis and Implementation of a High Voltage Gain 1 MHz Bidirectional DCDC Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 1415-1424	8.9	13
87	A novel energy-retaining inverter for AC arc welding machines. <i>International Journal of Circuit Theory and Applications</i> , 2012 , 40, 107-126	2	12
86	Light-emitting diode driver with a combined energy transfer inductor for current balancing control. <i>IET Power Electronics</i> , 2015 , 8, 1834-1843	2.2	11
85	A Single-Stage SEPIC PFC Converter for Multiple Lighting LED Lamps 2008 ,		11

84	DSP-Based Interleaved Buck Power Factor Corrector With Adaptive Slope Compensation. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 4665-4677	8.9	10
83	Hybrid Switched-Inductor Buck PFC Converter for High-Efficiency LED Drivers. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018 , 65, 1069-1073	3.5	9
82	High-Efficiency Isolated Photovoltaic Microinverter Using Wide-Band Gap Switches for Standalone and Grid-Tied Applications. <i>Energies</i> , 2018 , 11, 569	3.1	9
81	Modified current-fed full-bridge isolated power factor correction converter with low-voltage stress. <i>IET Power Electronics</i> , 2014 , 7, 861-867	2.2	9
80	Design and implementation of 1 MHz active-clamped resonant flyback converter 2017 ,		9
79	Zero-voltage switching current-fed flyback converter for power factor correction application. <i>IET Power Electronics</i> , 2013 , 6, 1971-1978	2.2	9
78	Analysis and design of a two-transformer active-clamping forward converter with parallel-connected current doubler rectifiers. <i>International Journal of Circuit Theory and Applications</i> , 2011 , 39, 501-514	2	9
77	Study and implementation of an improved-power factor alternating-current-light emitting diode driver. <i>IET Power Electronics</i> , 2015 , 8, 1156-1163	2.2	8
76	A module-integrated isolated solar micro-inverter without electrolytic capacitors. <i>International Journal of Circuit Theory and Applications</i> , 2014 , 42, 572-583	2	8
75	A single-stage high power-factor bridgeless AC-LED driver for lighting applications. <i>International Journal of Circuit Theory and Applications</i> , 2014 , 42, 96-109	2	8
74	Design and implementation of a high-efficiency bidirectional DC-DC Converter for DC micro-grid system applications. <i>International Journal of Circuit Theory and Applications</i> , 2014 , 42, 1139-1153	2	8
73	One cycle controlled grid-tied differential boost inverter. <i>IET Power Electronics</i> , 2016 , 9, 2216-2222	2.2	8
72	A cost-effective PWM dimming method for LED lighting applications. <i>International Journal of Circuit Theory and Applications</i> , 2015 , 43, 307-317	2	7
71	A High voltage-gain boost converter with coupled-inductor 2018 , 41, 1-7		7
70	Design of wide input voltage range high step-up DC-DC converter based on secondary-side resonant tank full bridge LLC 2018 ,		7
69	Design and implementation of a high-efficiency LiFePO ₄ battery charger for electric vehicle applications. <i>International Journal of Circuit Theory and Applications</i> , 2014 , 42, 759-768	2	7
68	Adaptive on-time control with adjustable virtual ripple and offset cancellation for buck converter. <i>IET Power Electronics</i> , 2015 , 8, 2418-2428	2.2	7
67	High-efficiency battery charger with cascode output design. <i>IET Power Electronics</i> , 2014 , 7, 1725-1735	2.2	7

66	High-efficiency LED driver for street light applications 2012,		7
65	Automatic EMI Measurement and Filter Design System for Telecom Power Supplies. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2007 , 56, 2254-2261	5.2	7
64	Current Imbalance Elimination for a Three-Phase Three-Switch PFC Converter. <i>IEEE Transactions on Power Electronics</i> , 2008 , 23, 1020-1022	7.2	6
63	Design and Implementation of a Planar Transformer With Fractional Turns for High Power Density LLC Resonant Converters. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 5191-5203	7.2	6
62	A DSP-based differential boost inverter with maximum power point tracking 2015,		5
61	A study and implementation of three-level boost converter with MPPT for PV application 2017,		5
60	Accurate power-loss estimation for continuous-current-conduction-mode synchronous Buck converters 2012,		5
59	A Novel Three-Phase Six-Switch PFC Rectifier with Zero-Voltage-Switching and Zero-Current-Switching Features. <i>Energies</i> , 2019 , 12, 1119	3.1	4
58	A DSP based digital control strategy for ZVS bidirectional Buck+Boost converter 2018,		4
57	A new digital control method for a voltage source inverter to compensate for imbalance of output voltage. <i>International Journal of Circuit Theory and Applications</i> , 2013 , 41, 879-888	2	4
56	Study and implementation of a two-phase interleaved bridgeless buck power factor corrector 2013,		4
55	Study on LCC-C Wireless Power Transfer 2017,		4
54	Single-stage high power-factor bridgeless AC-LED driver for lighting applications 2012,		4
53	Dual hysteresis loops for a high-performance four-switch boost rectifier. <i>IEEE Transactions on Industrial Electronics</i> , 2000 , 47, 1174-1176	8.9	4
52	Study and implementation of a 15-W driver for piezoelectric actuators. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 439-454	2	3
51	Efficiency improvement in adjustable deadtime of LLC resonant converters 2014,		3
50	Study on an interleaved buck power factor corrector with GaNFET and integrated inductor 2013,		3
49	Design and implementation of a contact-less power charger for robot applications. <i>International Journal of Circuit Theory and Applications</i> , 2014 , 42, 584-604	2	3

48	High efficiency and low input current distortion Totem-Pole Bridgeless PFC 2016 ,		3
47	Analysis and Implementation of a New Non-isolated High-Voltage-Gain Boost Converter 2019 ,		3
46	Design and Implementation of a High Power Density Active-Clamped Flyback Converter 2018 ,		3
45	Performance Comparison of Primary Side PFM and Secondary Side PWM for SS Wireless Power Transfer CC/CV Control Strategy 2018 ,		3
44	Equivalent Circuit Approach for Output Characteristic Design of Capacitive Power Transfer. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 2513-2517	3-5	3
43	A PWM Switch Model of Isolated Battery Charger in Constant-Current Mode. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 2942-2951	4-3	2
42	Design and Implementation of Solar OLED Lighting Driver Circuit with Frequency Modulation Control. <i>Energies</i> , 2020 , 13, 5608	3-1	2
41	A novel active-clamp zero-voltage-switching buck-boost converter. <i>International Journal of Circuit Theory and Applications</i> , 2018 , 46, 868-881	2	2
40	High step-up voltage-doubling DC-DC converter with coupled inductors 2016 ,		2
39	Single Phase AC-AC Solid State Transformer based on Single Conversion Stage 2019 ,		2
38	High voltage-gain interleaved boost DC-DC converter discarded electrolytic capacitor 2014 ,		2
37	Analysis and design of a push-pull DCM boost power factor corrector. <i>International Journal of Circuit Theory and Applications</i> , 2013 , 41, 410-423	2	2
36	DSP based digital control techniques for Interleaved Boost PFC converter 2017 ,		2
35	Simple four-quadrant grid-tie control scheme with unity power factor rectifier mode for single-phase DC/AC converters. <i>IET Renewable Power Generation</i> , 2017 , 11, 1483-1493	2-9	2
34	A cascode-circuit configuration for grid-tied solar micro-inverters 2015 , 38, 1067-1079		2
33	Circuit component parameters design for dual-switch flyback converter 2014 ,		2
32	High-voltage power amplifier for flexible paper speaker applications. <i>International Journal of Circuit Theory and Applications</i> , 2014 , 42, 165-172	2	2
31	Implementation of a single-stage quasi Z-source AC-DC Power Factor Correction converter 2012 ,		2

30	A single-stage phase-shifted full-bridge AC/DC converter with variable frequency control. <i>International Journal of Circuit Theory and Applications</i> , 2009 , 38, n/a-n/a	2	2
29	A single-stage high efficiency high power factor LED driver 2009 ,		2
28	Current and white-balance controls of an RGB LED backlight power supply system 2008 ,		2
27	Trans-admittance control for eliminating the temperature effect of piezoelectric transformer in the CCFL backlight module. <i>International Journal of Circuit Theory and Applications</i> , 2008 , 36, 939-952	2	2
26	Design and Implementation of a Control Method for GaN-Based Totem-Pole Boost-Type PFC Rectifier in Energy Storage Systems. <i>Energies</i> , 2020 , 13, 6297	3.1	2
25	A Bilateral Zero-Voltage Switching Bidirectional DC-DC Converter with Low Switching Noise. <i>Energies</i> , 2018 , 11, 2618	3.1	2
24	Accurate power-loss estimation for synchronous buck converters 2015 , 38, 247-259		1
23	A zero-voltage-switched three-phase interleaved buck converter. <i>International Journal of Electronics</i> , 2018 , 105, 572-585	1.2	1
22	Systematic analysis and design of dual-switch Flyback converter 2016 , 39, 159-168		1
21	An interleaved buck converter with asymmetric phase-shift control. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2018 , 1-8	0.4	1
20	Active shunt current shaping scheme for multiple paralleled DCDC converters. <i>International Journal of Circuit Theory and Applications</i> , 2012 , 40, 595-606	2	1
19	A module-integrated isolated solar micro-inverter without electrolytic capacitors 2012 ,		1
18	Isolated quasi z-source bridgeless power factor correction with coupled inductor 2013 ,		1
17	A DSP-based grid-tied solar cascode-micro-inverter 2013 ,		1
16	A high-input-voltage backlight module driver for multi-lamp LCD panels. <i>International Journal of Circuit Theory and Applications</i> , 2011 , 39, 533-542	2	1
15	Analysis and design of a push-pull DCM boost power factor corrector 2010 ,		1
14	A software-based CM and DM measurement system for the conducted EMI		1
13	Improved one-cycle controlled buck converter using Type-III compensator 2016 ,		1

12	Switched-capacitor charge equalization circuit for series-connected batteries 2016,		1
11	Highly efficient isolated solar micro-inverter 2016,		1
10	Modular battery balancing circuit based on bidirectional flyback converter 2016,		1
9	Resonant Network Transformation and Implementation of a Compacted Four-Plate Capacitive Power Transfer 2019,		1
8	Research on Symmetrical LLC Converter Applied to DC Transformer 2019,		1
7	Design of Bidirectional DC-DC Converter for Energy Storage System in High Power Application 2019,		1
6	Design and Implementation of a Novel Three Phase Interleaved Integrated Coupling Inductor 2018,		1
5	An Investigation of Zero-Voltage-Switching Condition in a High-Voltage-Gain Bidirectional DCDC Converter. <i>Electronics (Switzerland)</i> , 2021 , 10, 1940	2.6	1
4	Stacked Buck Converter: Current Ripple Elimination Effect and Transient Response. <i>Energies</i> , 2021 , 14, 64	3.1	0
3	Wide-range dimmable LED lighting based on QL-SEPIC converter. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2019 , 29, 25-37	0.4	
2	Integrated Magnetics Design for a Full-Bridge Phase-Shifted Converter. <i>Energies</i> , 2021 , 14, 183	3.1	
1	Enhanced Time Average Model of Three Phase Voltage Source Converter Taking Dead-Time Distortion Effect Into Account. <i>IEEE Access</i> , 2021 , 9, 23648-23659	3.5	