

# Huang-Jen Chiu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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

#	Paper	IF	Citations
119	Integrated Magnetics Design for a Full-Bridge Phase-Shifted Converter. <i>Energies</i> , <b>2021</b> , 14, 183	3.1	
118	Stacked Buck Converter: Current Ripple Elimination Effect and Transient Response. <i>Energies</i> , <b>2021</b> , 14, 64	3.1	0
117	Design and Implementation of a Planar Transformer With Fractional Turns for High Power Density LLC Resonant Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 5191-5203	7.2	6
116	Equivalent Circuit Approach for Output Characteristic Design of Capacitive Power Transfer. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 68, 2513-2517	3.5	3
115	An Investigation of Zero-Voltage-Switching Condition in a High-Voltage-Gain Bidirectional DCDC Converter. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 1940	2.6	1
114	Enhanced Time Average Model of Three Phase Voltage Source Converter Taking Dead-Time Distortion Effect Into Account. <i>IEEE Access</i> , <b>2021</b> , 9, 23648-23659	3.5	
113	Design and Implementation of Solar OLED Lighting Driver Circuit with Frequency Modulation Control. <i>Energies</i> , <b>2020</b> , 13, 5608	3.1	2
112	Design and Implementation of a Control Method for GaN-Based Totem-Pole Boost-Type PFC Rectifier in Energy Storage Systems. <i>Energies</i> , <b>2020</b> , 13, 6297	3.1	2
111	Analysis and Implementation of a High Voltage Gain 1 MHz Bidirectional DCDC Converter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 1415-1424	8.9	13
110	Quarter-Turn Transformer Design and Optimization for High Power Density 1-MHz LLC Resonant Converter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 1580-1591	8.9	22
109	A Novel Three-Phase Six-Switch PFC Rectifier with Zero-Voltage-Switching and Zero-Current-Switching Features. <i>Energies</i> , <b>2019</b> , 12, 1119	3.1	4
108	A PWM Switch Model of Isolated Battery Charger in Constant-Current Mode. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 2942-2951	4.3	2
107	A Novel Hybrid Mode Control for a Phase-Shift Full-Bridge Converter Featuring High Efficiency Over a Full-Load Range. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 2794-2804	7.2	29
106	Wide-range dimmable LED lighting based on QL-SEPIC converter. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , <b>2019</b> , 29, 25-37	0.4	
105	. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 1266-1275	7.2	14
104	Single Phase AC-AC Solid State Transformer based on Single Conversion Stage <b>2019</b> ,		2
103	Resonant Network Transformation and Implementation of a Compacted Four-Plate Capacitive Power Transfer <b>2019</b> ,		1

102	Research on Symmetrical LLC Converter Applied to DC Transformer <b>2019</b> ,		1
101	Design of Bidirectional DC-DC Converter for Energy Storage System in High Power Application <b>2019</b> ,		1
100	Analysis and Implementation of a New Non-isolated High-Voltage-Gain Boost Converter <b>2019</b> ,		3
99	Hybrid Switched-Inductor Buck PFC Converter for High-Efficiency LED Drivers. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2018</b> , 65, 1069-1073	3.5	9
98	A novel active-clamp zero-voltage-switching buck-boost converter. <i>International Journal of Circuit Theory and Applications</i> , <b>2018</b> , 46, 868-881	2	2
97	A High voltage-gain boost converter with coupled-inductor <b>2018</b> , 41, 1-7		7
96	A zero-voltage-switched three-phase interleaved buck converter. <i>International Journal of Electronics</i> , <b>2018</b> , 105, 572-585	1.2	1
95	Design of wide input voltage range high step-up DC-DC converter based on secondary-side resonant tank full bridge LLC <b>2018</b> ,		7
94	A DSP based digital control strategy for ZVS bidirectional Buck+Boost converter <b>2018</b> ,		4
93	Efficiency optimisation of ZVS isolated bidirectional DAB converters. <i>IET Power Electronics</i> , <b>2018</b> , 11, 1499-1506	2.2	17
92	Dynamic Wireless Power Transfer for Logistic Robots. <i>Energies</i> , <b>2018</b> , 11, 527	3.1	22
91	High-Efficiency Isolated Photovoltaic Microinverter Using Wide-Band Gap Switches for Standalone and Grid-Tied Applications. <i>Energies</i> , <b>2018</b> , 11, 569	3.1	9
90	An interleaved buck converter with asymmetric phase-shift control. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , <b>2018</b> , 1-8	0.4	1
89	Design and Implementation of a Novel Three Phase Interleaved Integrated Coupling Inductor <b>2018</b> ,		1
88	A Bilateral Zero-Voltage Switching Bidirectional DC-DC Converter with Low Switching Noise. <i>Energies</i> , <b>2018</b> , 11, 2618	3.1	2
87	Design and Implementation of a High Power Density Active-Clamped Flyback Converter <b>2018</b> ,		3
86	Performance Comparison of Primary Side PFM and Secondary Side PWM for SS Wireless Power Transfer CC/CV Control Strategy <b>2018</b> ,		3
85	Study and implementation of a 15-W driver for piezoelectric actuators. <i>International Journal of Circuit Theory and Applications</i> , <b>2017</b> , 45, 439-454	2	3

84	A novel low-loss control strategy for bidirectional DCDC converter. <i>International Journal of Circuit Theory and Applications</i> , <b>2017</b> , 45, 1801-1813	2	14
83	A study and implementation of three-level boost converter with MPPT for PV application <b>2017</b> ,		5
82	DSP based digital control techniques for Interleaved Boost PFC converter <b>2017</b> ,		2
81	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> , <b>2017</b> , 11, 1483-1493	2.9	2
80	Study on LCC-C Wireless Power Transfer <b>2017</b> ,		4
79	High-Efficiency Wireless Power Transfer System for Electric Vehicle Applications. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2017</b> , 64, 942-946	3.5	55
78	Design and implementation of 1 MHz active-clamped resonant flyback converter <b>2017</b> ,		9
77	High step-up voltage-doubling DC-DC converter with coupled inductors <b>2016</b> ,		2
76	Systematic analysis and design of dual-switch Flyback converter <b>2016</b> , 39, 159-168		1
75	Improved one-cycle controlled buck converter using Type-III compensator <b>2016</b> ,		1
74	Switched-capacitor charge equalization circuit for series-connected batteries <b>2016</b> ,		1
73	Highly efficient isolated solar micro-inverter <b>2016</b> ,		1
72	Modular battery balancing circuit based on bidirectional flyback converter <b>2016</b> ,		1
71	High efficiency and low input current distortion Totem-Pole Bridgeless PFC <b>2016</b> ,		3
70	One cycle controlled grid-tied differential boost inverter. <i>IET Power Electronics</i> , <b>2016</b> , 9, 2216-2222	2.2	8
69	Dimmable light-emitting diode driver with cascaded current regulator and voltage source. <i>IET Power Electronics</i> , <b>2015</b> , 8, 1305-1311	2.2	13
68	Study and implementation of an improved-power factor alternating-current-light emitting diode driver. <i>IET Power Electronics</i> , <b>2015</b> , 8, 1156-1163	2.2	8
67	A DSP-based differential boost inverter with maximum power point tracking <b>2015</b> ,		5

66	Accurate power-loss estimation for synchronous buck converters <b>2015</b> , 38, 247-259		1
65	A cost-effective PWM dimming method for LED lighting applications. <i>International Journal of Circuit Theory and Applications</i> , <b>2015</b> , 43, 307-317	2	7
64	A cascode-circuit configuration for grid-tied solar micro-inverters <b>2015</b> , 38, 1067-1079		2
63	Adaptive on-time control with adjustable virtual ripple and offset cancellation for buck converter. <i>IET Power Electronics</i> , <b>2015</b> , 8, 2418-2428	2.2	7
62	Light-emitting diode driver with a combined energy transfer inductor for current balancing control. <i>IET Power Electronics</i> , <b>2015</b> , 8, 1834-1843	2.2	11
61	DSP-Based Interleaved Buck Power Factor Corrector With Adaptive Slope Compensation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 4665-4677	8.9	10
60	Design and implementation of a high-efficiency LiFePO4 battery charger for electric vehicle applications. <i>International Journal of Circuit Theory and Applications</i> , <b>2014</b> , 42, 759-768	2	7
59	A module-integrated isolated solar micro-inverter without electrolytic capacitors. <i>International Journal of Circuit Theory and Applications</i> , <b>2014</b> , 42, 572-583	2	8
58	Efficiency improvement in adjustable deadtime of LLC resonant converters <b>2014</b> ,		3
57	LED Backlight Driver Circuit With Dual-Mode Dimming Control and Current-Balancing Design. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 4632-4639	8.9	32
56	Modified current-fed full-bridge isolated power factor correction converter with low-voltage stress. <i>IET Power Electronics</i> , <b>2014</b> , 7, 861-867	2.2	9
55	High voltage-gain interleaved boost DC-DC converter discarded electrolytic capacitor <b>2014</b> ,		2
54	Circuit component parameters design for dual-switch flyback converter <b>2014</b> ,		2
53	High-efficiency battery charger with cascode output design. <i>IET Power Electronics</i> , <b>2014</b> , 7, 1725-1735	2.2	7
52	Study on an interleaved buck power factor corrector with gallium nitride field effect transistor and integrated inductor. <i>IET Power Electronics</i> , <b>2014</b> , 7, 2506-2516	2.2	14
51	Design and implementation of a contact-less power charger for robot applications. <i>International Journal of Circuit Theory and Applications</i> , <b>2014</b> , 42, 584-604	2	3
50	A single-stage high power-factor bridgeless AC-LED driver for lighting applications. <i>International Journal of Circuit Theory and Applications</i> , <b>2014</b> , 42, 96-109	2	8
49	High-voltage power amplifier for flexible paper speaker applications. <i>International Journal of Circuit Theory and Applications</i> , <b>2014</b> , 42, 165-172	2	2

48	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> , <b>2014</b> , 42, 1139-1153	2	8
47	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> , <b>2013</b> , 41, 879-888	2	4
46	Analysis and design of a pushpull DCM boost power factor corrector. <i>International Journal of Circuit Theory and Applications</i> , <b>2013</b> , 41, 410-423	2	2
45	Study on an interleaved buck power factor corrector with GaNFET and integrated inductor <b>2013</b> ,		3
44	Study and implementation of a two-phase interleaved bridgeless buck power factor corrector <b>2013</b> ,		4
43	Analysis and Design of a PushBull Quasi-Resonant Boost Power Factor Corrector. <i>IEEE Transactions on Power Electronics</i> , <b>2013</b> , 28, 347-356	7.2	18
42	Isolated quasi z-source bridgeless power factor correction with coupled inductor <b>2013</b> ,		1
41	A DSP-based grid-tied solar cascode-micro-inverter <b>2013</b> ,		1
40	Zero-voltage switching current-fed flyback converter for power factor correction application. <i>IET Power Electronics</i> , <b>2013</b> , 6, 1971-1978	2.2	9
39	High-Efficiency Digital-Controlled Interleaved Power Converter for High-Power PEM Fuel-Cell Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 773-780	8.9	33
38	A novel energy-retaining inverter for AC arc welding machines. <i>International Journal of Circuit Theory and Applications</i> , <b>2012</b> , 40, 107-126	2	12
37	Active shunt current shaping scheme for multiple paralleled DCDC converters. <i>International Journal of Circuit Theory and Applications</i> , <b>2012</b> , 40, 595-606	2	1
36	Accurate power-loss estimation for continuous-current-conduction-mode synchronous Buck converters <b>2012</b> ,		5
35	Single-stage high power-factor bridgeless AC-LED driver for lighting applications <b>2012</b> ,		4
34	High-efficiency LED driver for street light applications <b>2012</b> ,		7
33	A module-integrated isolated solar micro-inverter without electrolytic capacitors <b>2012</b> ,		1
32	Implementation of a single-stage quasi Z-source AC-DC Power Factor Correction converter <b>2012</b> ,		2
31	A fuzzy control maximum power point tracking photovoltaic system <b>2011</b> ,		15

30	A Dual-Mode Controller for the Boost PFC Converter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2011</b> , 58, 369-372	8.9	21
29	A Simple Inverter for Arc-Welding Machines With Current Doubler Rectifier. <i>IEEE Transactions on Industrial Electronics</i> , <b>2011</b> , 58, 5278-5281	8.9	25
28	A battery charger with maximum power point tracking function for low-power photovoltaic system applications. <i>International Journal of Circuit Theory and Applications</i> , <b>2011</b> , 39, 241-256	2	13
27	A high-input-voltage backlight module driver for multi-lamp LCD panels. <i>International Journal of Circuit Theory and Applications</i> , <b>2011</b> , 39, 533-542	2	1
26	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> , <b>2011</b> , 39, 501-514	2	9
25	A single-stage LED lamp driver with low DC bus voltage for general lighting applications. <i>International Journal of Circuit Theory and Applications</i> , <b>2011</b> , 39, 1161-1175	2	15
24	Design and Implementation of a Photovoltaic High-Intensity-Discharge Street Lighting System. <i>IEEE Transactions on Power Electronics</i> , <b>2011</b> , 26, 3464-3471	7.2	23
23	A Modular Self-Controlled Photovoltaic Charger With InterIntegrated Circuit ( $\text{I}^2\text{C}$ ) Interface. <i>IEEE Transactions on Energy Conversion</i> , <b>2011</b> , 26, 281-289	5.4	23
22	A High-Efficiency Dimmable LED Driver for Low-Power Lighting Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2010</b> , 57, 735-743	8.9	301
21	Analysis and design of a push-pull DCM boost power factor corrector <b>2010</b> ,		1
20	A DSP-based single-stage maximum power point tracking PV inverter <b>2010</b> ,		18
19	Current-input OTRA Schmitt trigger with dual hysteresis modes. <i>International Journal of Circuit Theory and Applications</i> , <b>2010</b> , 38, 739-746	2	28
18	A DC/DC converter topology for renewable energy systems. <i>International Journal of Circuit Theory and Applications</i> , <b>2009</b> , 37, 485-495	2	30
17	Design considerations of an SEPIC PFC converter for driving multiple lighting LED lamps. <i>International Journal of Circuit Theory and Applications</i> , <b>2009</b> , 37, 928-940	2	22
16	A single-stage phase-shifted full-bridge AC/DC converter with variable frequency control. <i>International Journal of Circuit Theory and Applications</i> , <b>2009</b> , 38, n/a-n/a	2	2
15	A single-stage high efficiency high power factor LED driver <b>2009</b> ,		2
14	Design of an RGB LED Backlight Circuit for Liquid Crystal Display Panels. <i>IEEE Transactions on Industrial Electronics</i> , <b>2009</b> , 56, 2793-2795	8.9	30
13	Design and Implementation of RGB LED Drivers for LCD Backlight Modules. <i>IEEE Transactions on Industrial Electronics</i> , <b>2009</b> , 56, 4862-4871	8.9	77

12	Analysis and Design of a Photovoltaic System DC Connected to the Utility With a Power Factor Corrector. <i>IEEE Transactions on Industrial Electronics</i> , <b>2009</b> , 56, 4354-4362	8.9	25
11	Current Imbalance Elimination for a Three-Phase Three-Switch PFC Converter. <i>IEEE Transactions on Power Electronics</i> , <b>2008</b> , 23, 1020-1022	7.2	6
10	Current and white-balance controls of an RGB LED backlight power supply system <b>2008</b> ,		2
9	A Single-Stage SEPIC PFC Converter for Multiple Lighting LED Lamps <b>2008</b> ,		11
8	An improved single-stage Flyback PFC converter for high-luminance lighting LED lamps. <i>International Journal of Circuit Theory and Applications</i> , <b>2008</b> , 36, 205-210	2	45
7	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> , <b>2008</b> , 36, 939-952	2	2
6	Automatic EMI Measurement and Filter Design System for Telecom Power Supplies. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2007</b> , 56, 2254-2261	5.2	7
5	Single-Stage Voltage Source Charge-Pump Electronic Ballast With Switched-Capacitor Dimmer for Multiple Fluorescent Lamps. <i>IEEE Transactions on Industrial Electronics</i> , <b>2007</b> , 54, 2915-2918	8.9	18
4	LED Backlight Driving System for Large-Scale LCD Panels. <i>IEEE Transactions on Industrial Electronics</i> , <b>2007</b> , 54, 2751-2760	8.9	177
3	On evaluating the current distortion of the single-phase switch-mode rectifiers with current slope maps. <i>IEEE Transactions on Industrial Electronics</i> , <b>2002</b> , 49, 1128-1137	8.9	14
2	Dual hysteresis loops for a high-performance four-switch boost rectifier. <i>IEEE Transactions on Industrial Electronics</i> , <b>2000</b> , 47, 1174-1176	8.9	4
1	A software-based CM and DM measurement system for the conducted EMI		1