

Kuo-Ing Hwu

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.

158
papers

1,668
citations

24
h-index

35
g-index

216
ext. papers

2,157
ext. citations

4
avg, IF

5.41
L-index

#	Paper	IF	Citations
158	Development of a Thermal Energy Harvesting Converter with Multiple Inputs and an Isolated Output. <i>Energies</i> , 2022 , 15, 273	3.1	0
157	A Single-Voltage-Source Class-D Boost Multi-Level Inverter with Self-Balanced Capacitors. <i>Energies</i> , 2022 , 15, 4082	3.1	0
156	Development of Four-Channel Buck-Type LED Driver with Automatic Current Sharing. <i>Energies</i> , 2021 , 14, 7844	3.1	0
155	LLC LED Driver with Current-Sharing Capacitor Having Low Voltage Stress. <i>Energies</i> , 2021 , 14, 112	3.1	1
154	Applying FPGA Control with ADC-Free Sampling to Multi-Output Forward Converter. <i>Electronics (Switzerland)</i> , 2021 , 10, 1010	2.6	3
153	Active Clamp Boost Converter with Blanking Time Tuning Considered. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 860	2.6	2
152	Light-Load Efficiency Improvement for Ultrahigh Step-Down Converter Based on Skip Mode. <i>Electronics (Switzerland)</i> , 2021 , 10, 355	2.6	1
151	Bridgeless Isolated AC LED Driver. <i>Processes</i> , 2021 , 9, 1173	2.9	1
150	Soft Switching of Non-Isolated Buck-Type Converter with Common-Ground Switch. <i>Energies</i> , 2021 , 14, 5290	3.1	0
149	Minimization of Output Voltage Ripple of Two-Phase Interleaved Buck Converter with Active Clamp. <i>Energies</i> , 2021 , 14, 5215	3.1	2
148	Simple Structure of Soft Switching for Boost Converter. <i>Energies</i> , 2020 , 13, 5448	3.1	2
147	Improvement in Voltage Gain of Interleaved High Step-Down Converter. <i>Energies</i> , 2020 , 13, 1019	3.1	0
146	Two-Phase Interleaved Boost Converter with ZVT Turn-On for Main Switches and ZCS Turn-Off for Auxiliary Switches Based on One Resonant Loop. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3881	2.6	4
145	ACDC Flyback Dimmable LED Driver with Low-Frequency Current Ripple Reduced and Power Dissipation in BJT Linearly Proportional to LED Current. <i>Energies</i> , 2020 , 13, 4270	3.1	2
144	Thermoelectric Energy Conversion System With Multiple Inputs. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 1603-1621	7.2	3
143	Interleaved Boost Converter with ZVT-ZCT for the Main Switches and ZCS for the Auxiliary Switch. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2033	2.6	6
142	Efficiency improvement for LLC converter based on automatic tuning of blanking time. <i>International Journal of Circuit Theory and Applications</i> , 2019 , 47, 1477-1501	2	0

141	Bridgeless Buck-Boost PFC Rectifier with Positive Output Voltage. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3483	2.6	1
140	Series-type charger with output voltage automatically regulated and hot swap. <i>International Journal of Circuit Theory and Applications</i> , 2019 , 47, 633-639	2	2
139	Thermoelectric Conversion System With Dimmable LED Lighting. <i>IEEE Access</i> , 2019 , 7, 42396-42407	3.5	2
138	Enhancement of System Stability Based on PWM. <i>Electronics (Switzerland)</i> , 2019 , 8, 399	2.6	0
137	Improvement in Voltage Conversion Ratio of Ultrahigh Step-Down Converter. <i>Energies</i> , 2019 , 12, 3896	3.1	1
136	Implementation of a Dimmable LED Driver with Extendable Parallel Structure and Capacitive Current Sharing. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5177	2.6	2
135	ZETA Dual-Loop Control Based on Voltage Across Transferring Capacitor Sensed 2019 ,		1
134	Voltage Gain Improvement of a High-Step-Down Converter With Coupled-Inductor Core Size Reduction Based on Flux Linkage. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 6033-6047	7.2	11
133	Nonisolated Two-Phase Interleaved LED Driver With Capacitive Current Sharing. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 2295-2306	7.2	12
132	An extensible two-phase high voltage-boosting converter with automatic current balance. <i>International Journal of Circuit Theory and Applications</i> , 2018 , 46, 483-504	2	
131	Series-Based AC LED Driver with Efficiency Improved. <i>Electric Power Components and Systems</i> , 2018 , 46, 637-646	1	1
130	Automatic current-sharing extendable two-channel LED driver with non-pulsating input current and zero dc flux. <i>International Journal of Circuit Theory and Applications</i> , 2018 , 46, 1462-1484	2	4
129	Expandable two-channel LED driver with galvanic isolation and automatic current balance. <i>IET Power Electronics</i> , 2018 , 11, 825-833	2.2	8
128	Analysis and design of type 3 compensator for the buck converter based on PSIM 2018 ,		2
127	Performance comparison between tapped-inductor buck converter and ultrahigh step-down converter. <i>International Journal of Electronics Letters</i> , 2017 , 5, 475-490	0.6	1
126	An Expandable Two-Phase Interleaved Ultrahigh Step-Down Converter With Automatic Current Balance. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 9223-9237	7.2	32
125	Input-Current-Ripple-Free Two-Channel LED Driver. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5865-5874	8.9	5
124	Applying module-link method to multiple power supplies paralleled 2017 ,		2

123	PFC Converter with Improved Input Current Zero-crossing Distortion. <i>Electric Power Components and Systems</i> , 2017 , 45, 1329-1338	1	1
122	Ultrahigh step-down converter with active clamp 2017 ,		4
121	Single-Switch Coupled-Inductor-Based Two-Channel LED Driver With a Passive Regenerative Snubber. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4482-4490	7.2	9
120	A new bridgeless buck PFC rectifier. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 707-719	2	3
119	Reduction of low-frequency output voltage ripple for isolated high-power-factor ACDC converter. <i>International Journal of Electronics Letters</i> , 2017 , 5, 349-357	0.6	
118	Ultrahigh Step-Down Converter With Wide Input Voltage Range Based on Topology Exchange. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 5341-5364	7.2	26
117	Coupled-Inductor-Based High-Step-Down-Ratio Converter with Output Current Ripple Reduction. <i>Electric Power Components and Systems</i> , 2017 , 45, 1599-1606	1	
116	Three-level boost converter with zero voltage transition. <i>Journal of Engineering</i> , 2017 , 2017, 354-361	0.7	1
115	Nonisolated Coupled-Inductor-Based High Step-Down Converter With Zero DC Magnetizing Inductance Current and Nonpulsating Output Current. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 4362-4377	7.2	27
114	A fast response voltage control circuit for automotive alternator system 2016 ,		2
113	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6064-6072	8.9	22
112	Isolated high voltage-boosting converter derived from forward converter. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 280-304	2	6
111	Nonisolated Two-Channel LED Driver With Automatic Current Balance and Zero-Voltage Switching. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 8359-8370	7.2	23
110	Dynamic Response Improvement Based on PID Control. <i>IEEJ Journal of Industry Applications</i> , 2016 , 5, 26-31	0.7	
109	An Isolated High Step-Up Converter with Non-Pulsating Input Current for Renewable Energy Applications. <i>Journal of Power Electronics</i> , 2016 , 16, 1277-1287	0.9	
108	Light-load efficiency improvement for flyback converter based on hybrid clamp circuit 2016 ,		4
107	Dimmable LED Driver Based on Twin-Bus Converter and Differential-Mode Transformer. <i>Journal of Display Technology</i> , 2016 , 12, 1122-1129		4
106	Non-isolated large step-down voltage conversion ratio converter with non-pulsating output current. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 1657-1684	2	3

105	DC-DC converter with large step-down voltage conversion ratio 2016 ,		4
104	An isolated high step-up converter with continuous input current and LC snubber 2016 ,		6
103	Dimmable AC LED Driver Based on Series Drive. <i>Journal of Display Technology</i> , 2016 , 12, 1097-1105		5
102	Analysis and design of a high-step-down ratio resonant converter. <i>IET Power Electronics</i> , 2016 , 9, 864-873.	2.2	7
101	Bidirectional Operation of High Step-Down Converter. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 6829-6844	7.2	23
100	Improvement on voltage gain for KY converter. <i>IET Power Electronics</i> , 2015 , 8, 361-370	2.2	4
99	Full-Digital AC-DC Converter With PFC Based on Counting. <i>IEEE Transactions on Industrial Informatics</i> , 2015 , 11, 122-131	11.9	11
98	Analysis, design and derivation of a two-phase converter. <i>IET Power Electronics</i> , 2015 , 8, 1987-1995	2.2	23
97	Time-sharing PWM control scheme for isolated multi-output DCDC converter. <i>Electronics Letters</i> , 2015 , 51, 1446-1447	1.1	3
96	2015 ,		1
95	Ultrahigh Step-Down Converter. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 3262-3274	7.2	53
94	Improvement in Efficiency of LED Lighting System Based on Reduction of Voltage across MOSFET. <i>IEEJ Journal of Industry Applications</i> , 2015 , 4, 650-653	0.7	4
93	Implementation of type III controller for KY converter based on PSIM 2015 ,		3
92	High-step-up single-switch DCDC converter with low voltage spike. <i>IET Power Electronics</i> , 2015 , 8, 2504-2510	2.2	25
91	Step-down converter with wide voltage conversion ratio. <i>IET Power Electronics</i> , 2015 , 8, 2136-2144	2.2	14
90	Study and simulation on control-to-output transfer function of KY boost converter 2015 ,		1
89	Improved KY Converter. <i>Journal of Electrical Engineering and Technology</i> , 2015 , 10, 1578-1588	1.4	2
88	High-voltage-boosting converter with charge pump capacitor and coupling inductor combined with buckBoost converter. <i>IET Power Electronics</i> , 2014 , 7, 177-188	2.2	15

87	High Step-Up Converter Based on Coupling Inductor and Bootstrap Capacitors With Active Clamping. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 2655-2660	7.2	51
86	A Dimmable LED Driver Based on Current Balancing Transformer With Magnetizing Energy Recycling Considered. <i>Journal of Display Technology</i> , 2014 , 10, 388-395		24
85	Light-emitting diode driver with low-frequency ripple suppressed and dimming efficiency improved. <i>IET Power Electronics</i> , 2014 , 7, 105-113	2.2	25
84	Ultra high step-down converter 2014 ,		2
83	Improvement in voltage conversion ratio for step up converter established by KY and buckBoost converters based on coupled inductor. <i>IET Power Electronics</i> , 2014 , 7, 1457-1465	2.2	2
82	Dimmable AC LED Driver With Efficiency Improved Based on Switched LED Module. <i>Journal of Display Technology</i> , 2014 , 10, 171-181		11
81	Isolated step-up converter based on flyback converter and charge pumps. <i>IET Power Electronics</i> , 2014 , 7, 2250-2257	2.2	27
80	Voltage Gain Enhancement for a Step-Up Converter Constructed by KY and Buck-Boost Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 1758-1768	8.9	33
79	Pulse-Frequency-Modulated Digital Control of Power Supply Without Analog-to-Digital Converter Using Positive-Sloped Ramp Wave Injection. <i>IEEE Transactions on Industrial Informatics</i> , 2013 , 9, 739-748	11.9	4
78	Voltage gain enhancement of KY converter 2013 ,		3
77	Inductor saturation detection with anti-saturation control strategy applied 2013 ,		5
76	A novel high step-up converter 2013 ,		2
75	Controllable and Dimmable AC LED Driver Based on FPGA to Achieve High PF and Low THD. <i>IEEE Transactions on Industrial Informatics</i> , 2013 , 9, 1330-1342	11.9	24
74	High Voltage-Boosting Converters Based on Bootstrap Capacitors and Boost Inductors. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 2178-2193	8.9	27
73	Photovoltaic Energy Conversion System Constructed by High Step-Up Converter with Hybrid Maximum Power Point Tracking. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-9	2.1	5
72	A Buck Resonant Voltage Divider With Bidirectional Operation Considered. <i>IEEE Transactions on Industry Applications</i> , 2013 , 49, 1566-1576	4.3	1
71	Dimmable driver for light-emitting diode with total harmonic distortion improved. <i>IET Power Electronics</i> , 2012 , 5, 59	2.2	15
70	Voltage-boosting converters with hybrid energy pumping. <i>IET Power Electronics</i> , 2012 , 5, 185	2.2	22

69	Current Sharing Control Strategy Based on Phase Link. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 701-713	8.9	15
68	Fully Digitalized Implementation of PFC Rectifier in CCM Without ADC. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 4021-4029	7.2	21
67	High step-up converter based on coupling inductor and bootstrap capacitors with active clamping 2012 ,		3
66	A gate driver with output voltage equal to triple input voltage 2012 ,		1
65	High Step-Up Converter Based on Charge Pump and Boost Converter. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 2484-2494	7.2	58
64	Resonant Voltage Divider With Bidirectional Operation and Startup Considered. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 1996-2006	7.2	14
63	A LED current balancing driver with magnetizing inductance energy recycling considered 2012 ,		13
62	A novel inductor-coupled step-up-down converter 2012 ,		1
61	A Novel BuckBoost Converter Combining KY and Buck Converters. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 2236-2241	7.2	87
60	A novel gate driver with output having positive input voltage and negative double input voltage 2012 ,		1
59	A high brightness light-emitting diode driver with power factor and total harmonic distortion improved 2011 ,		8
58	Step-up converter combining KY and buck-boost converters. <i>Electronics Letters</i> , 2011 , 47, 722	1.1	27
57	Applying One-Comparator Counter-Based Sampling to Current Sharing Control of Multichannel LED Strings. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 2413-2421	4.3	22
56	Applying Differential-Mode Transformer to Current Sharing With Current Ripple Considered. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 2755-2771	8.9	9
55	Powering LED Using High-Efficiency SR Flyback Converter. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 376-386	4.3	49
54	Fully-digitalized implementation of PFC rectifier in CCM without ADC 2011 ,		1
53	A simple step-up converter 2011 ,		4
52	High step-up converter based on two charge pumps with one inductor inserted 2011 ,		1

51	A buck resonant voltage divider with bidirectional operation considered 2011 ,		1
50	LED dimming with efficiency considered. <i>Electronics Letters</i> , 2011 , 47, 457	1.1	9
49	A KY Boost Converter. <i>IEEE Transactions on Power Electronics</i> , 2010 , 25, 2699-2703	7.2	56
48	Voltage-Boosting Converter Based on Charge Pump and Coupling Inductor With Passive Voltage Clamping. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 1719-1727	8.9	18
47	Applying one-comparator counter-based sampling to current sharing control of multi-channel LED strings 2010 ,		24
46	Inductor-coupled KY boost converter. <i>Electronics Letters</i> , 2010 , 46, 1624	1.1	27
45	Performance Enhancement of Boost Converter Based on PID Controller Plus Linear-to-Nonlinear Translator. <i>IEEE Transactions on Power Electronics</i> , 2010 , 25, 1351-1361	7.2	35
44	KY converter with zero voltage switching 2010 ,		3
43	High step-up converter based on charge pump and boost converter 2010 ,		5
42	A Novel Dimming Technique for Cold Cathode Fluorescent Lamp. <i>IEEE Transactions on Industry Applications</i> , 2010 , 46, 2196-2201	4.3	3
41	Dual-output buck-boost converter with positive and negative output voltages under single positive voltage source fed 2010 ,		2
40	A Simple Resonant Voltage Divider 2009 ,		3
39	Applying DSP-based two-stage AC-DC converter to drive SRM with sampling and startup considered 2009 ,		1
38	Digital control of isolated two-stage DC-DC converter with synchronization considered 2009 ,		2
37	Improvement of one-comparator counter-based PFM control for DC-DC converter 2009 ,		5
36	A novel negative-output KY buck-boost converter 2009 ,		6
35	Two Types of KY BuckBoost Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 2970-2980	8.9	59
34	Negative-output KY boost converter 2009 ,		4

33	KY Converter and Its Derivatives. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 128-137	7.2	90
32	Bidirectional control of inverse KY converter 2009 ,		4
31	A Simple Current-Balancing Converter for LED Lighting 2009 ,		61
30	Powering LED Using High-Efficiency SR Flyback Converter 2009 ,		8
29	Performance Enhancement of Boost Converter Based on Linear-to-Nonlinear Translator 2009 ,		2
28	An Interleaved ACDC Converter Based on Current Tracking. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 1456-1463	8.9	37
27	On the design of fuzzy-controlled KY converter 2009 ,		2
26	Soft Switching of Negative-Output KY Buck Converter 2009 ,		3
25	A novel negative-output KY boost converter 2009 ,		1
24	Negative-output KY buck-boost converter 2009 ,		1
23	Simple design of a soft-switching buck converter 2008 ,		5
22	2nd-order derived KY converters: 1-plus-2D and 2-plus-D converters 2008 ,		1
21	Soft switching of KY converter. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2008 ,		4
20	Estimation of individual leakage inductances of a transformer based on measurements 2008 ,		2
19	Topology exchange between KY converter and its derivative. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2008 ,		3
18	A Novel voltage-boosting converter with passive voltage clamping 2008 ,		6
17	Active load for burn-in test of buck-type DC-DC converter with ultra-low output voltage. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2008 ,		6
16	A simple passive ZCS circuit for PFC converter. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2008 ,		3

15	Design of a digitalized burn-in test plant 2008,	3
14	A novel voltage-bucking/boosting converter: KY buck-boost converter 2008,	5
13	A gate driver with negative and double positive output voltages under positive-voltage source. <i>IEEE Applied Power Electronics Conference and Exposition, 2008,</i>	3
12	A Novel Gate Driver with Output Voltage Having Double Source Voltage 2007,	1
11	Improvement in Efficiency of the Phase-shift Current-doubler-rectification ZVS Full-bridge DC-DC Converter. <i>IEEE Applied Power Electronics Conference and Exposition, 2007,</i>	5
10	A Novel Gate Driver with Positive and Negative Output Voltages 2007,	1
9	Feedforward Compensation for One-Comparator Counter-Based PWM Control Based on FPGA 2007,	1
8	A Novel Dimming Technique for Cold Cathode Fluorescent Lamp 2007,	6
7	Improvement of Transient Load Response for the ZVS Buck Converter Using FPGA-based Control. <i>IEEE Applied Power Electronics Conference and Exposition, 2007,</i>	1
6	A Novel Voltage-boosting Converter: KY Converter. <i>IEEE Applied Power Electronics Conference and Exposition, 2007,</i>	15
5	Improvement of One-comparator Counter-based PWM Control by Applying a Sawtoothed Wave Injection Method. <i>IEEE Applied Power Electronics Conference and Exposition, 2007,</i>	11
4	Improvement of the Unloading Transient Response for the PFM-controlled Buck-type Converter 2006,	1
3	Applying a Counter-based PFM Control Strategy to an FPGA-based SR Forward Converter 2006,	5
2	Applying a counter-based PWM control scheme to an FPGA-based SR forward converter	32
1	A Forward Converter Having an FPGA-based PID Controller with Parameters On-line Tuned	2