

Kuo-Ing Hwu

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158
papers

1,668
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24
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35
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216
ext. papers

2,157
ext. citations

4
avg, IF

5.41
L-index

#	Paper	IF	Citations
158	KY Converter and Its Derivatives. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 128-137	7.2	90
157	A Novel BuckBoost Converter Combining KY and Buck Converters. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 2236-2241	7.2	87
156	A Simple Current-Balancing Converter for LED Lighting 2009 ,		61
155	Two Types of KY BuckBoost Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 2970-2980	8.9	59
154	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
153	A KY Boost Converter. <i>IEEE Transactions on Power Electronics</i> , 2010 , 25, 2699-2703	7.2	56
152	Ultrahigh Step-Down Converter. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 3262-3274	7.2	53
151	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
150	Powering LED Using High-Efficiency SR Flyback Converter. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 376-386	4.3	49
149	An Interleaved ACDC Converter Based on Current Tracking. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 1456-1463	8.9	37
148	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
147	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
146	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
145	Applying a counter-based PWM control scheme to an FPGA-based SR forward converter		32
144	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
143	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
142	Isolated step-up converter based on flyback converter and charge pumps. <i>IET Power Electronics</i> , 2014 , 7, 2250-2257	2.2	27

141	Step-up converter combining KY and buck-boost converters. <i>Electronics Letters</i> , 2011 , 47, 722	1.1	27
140	Inductor-coupled KY boost converter. <i>Electronics Letters</i> , 2010 , 46, 1624	1.1	27
139	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
138	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
137	High-step-up single-switch DCDC converter with low voltage spike. <i>IET Power Electronics</i> , 2015 , 8, 2504-2510	2.2	25
136	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
135	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
134	Applying one-comparator counter-based sampling to current sharing control of multi-channel LED strings 2010 ,		24
133	Bidirectional Operation of High Step-Down Converter. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 6829-6844	7.2	23
132	Analysis, design and derivation of a two-phase converter. <i>IET Power Electronics</i> , 2015 , 8, 1987-1995	2.2	23
131	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
130	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6064-6072	8.9	22
129	Voltage-boosting converters with hybrid energy pumping. <i>IET Power Electronics</i> , 2012 , 5, 185	2.2	22
128	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
127	Fully Digitalized Implementation of PFC Rectifier in CCM Without ADC. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 4021-4029	7.2	21
126	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
125	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
124	Dimmable driver for light-emitting diode with total harmonic distortion improved. <i>IET Power Electronics</i> , 2012 , 5, 59	2.2	15

123	Current Sharing Control Strategy Based on Phase Link. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 701-713	8.9	15
122	A Novel Voltage-boosting Converter: KY Converter. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2007 ,		15
121	Step-down converter with wide voltage conversion ratio. <i>IET Power Electronics</i> , 2015 , 8, 2136-2144	2.2	14
120	Resonant Voltage Divider With Bidirectional Operation and Startup Considered. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 1996-2006	7.2	14
119	A LED current balancing driver with magnetizing inductance energy recycling considered 2012 ,		13
118	Nonisolated Two-Phase Interleaved LED Driver With Capacitive Current Sharing. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 2295-2306	7.2	12
117	Full-Digital AC-DC Converter With PFC Based on Counting. <i>IEEE Transactions on Industrial Informatics</i> , 2015 , 11, 122-131	11.9	11
116	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
115	Dimmable AC LED Driver With Efficiency Improved Based on Switched LED Module. <i>Journal of Display Technology</i> , 2014 , 10, 171-181		11
114	Improvement of One-comparator Counter-based PWM Control by Applying a Sawtoothed Wave Injection Method. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2007 ,		11
113	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
112	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
111	LED dimming with efficiency considered. <i>Electronics Letters</i> , 2011 , 47, 457	1.1	9
110	A high brightness light-emitting diode driver with power factor and total harmonic distortion improved 2011 ,		8
109	Powering LED Using High-Efficiency SR Flyback Converter 2009 ,		8
108	Expandable two-channel LED driver with galvanic isolation and automatic current balance. <i>IET Power Electronics</i> , 2018 , 11, 825-833	2.2	8
107	Analysis and design of a high-step-down ratio resonant converter. <i>IET Power Electronics</i> , 2016 , 9, 864-873.	2	7
106	Isolated high voltage-boosting converter derived from forward converter. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 280-304	2	6

105	A novel negative-output KY buck-boost converter 2009 ,		6
104	A Novel voltage-boosting converter with passive voltage clamping 2008 ,		6
103	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
102	A Novel Dimming Technique for Cold Cathode Fluorescent Lamp 2007 ,		6
101	An isolated high step-up converter with continuous input current and LC snubber 2016 ,		6
100	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
99	Input-Current-Ripple-Free Two-Channel LED Driver. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5865-5874	8.9	5
98	Inductor saturation detection with anti-saturation control strategy applied 2013 ,		5
97	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
96	High step-up converter based on charge pump and boost converter 2010 ,		5
95	Improvement of one-comparator counter-based PFM control for DC-DC converter 2009 ,		5
94	Simple design of a soft-switching buck converter 2008 ,		5
93	A novel voltage-bucking/boosting converter: KY buck-boost converter 2008 ,		5
92	Improvement in Efficiency of the Phase-shift Current-doubler-rectification ZVS Full-bridge DC-DC Converter. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2007 ,		5
91	Applying a Counter-based PFM Control Strategy to an FPGA-based SR Forward Converter 2006 ,		5
90	Dimmable AC LED Driver Based on Series Drive. <i>Journal of Display Technology</i> , 2016 , 12, 1097-1105		5
89	Improvement on voltage gain for KY converter. <i>IET Power Electronics</i> , 2015 , 8, 361-370	2.2	4
88	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

87	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
86	Ultrahigh step-down converter with active clamp 2017 ,		4
85	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
84	A simple step-up converter 2011 ,		4
83	Negative-output KY boost converter 2009 ,		4
82	Bidirectional control of inverse KY converter 2009 ,		4
81	Soft switching of KY converter. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2008 ,		4
80	Light-load efficiency improvement for flyback converter based on hybrid clamp circuit 2016 ,		4
79	Dimmable LED Driver Based on Twin-Bus Converter and Differential-Mode Transformer. <i>Journal of Display Technology</i> , 2016 , 12, 1122-1129		4
78	DC-DC converter with large step-down voltage conversion ratio 2016 ,		4
77	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
76	Time-sharing PWM control scheme for isolated multi-output DCDC converter. <i>Electronics Letters</i> , 2015 , 51, 1446-1447	1.1	3
75	Voltage gain enhancement of KY converter 2013 ,		3
74	A new bridgeless buck PFC rectifier. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 707-719	2	3
73	Implementation of type III controller for KY converter based on PSIM 2015 ,		3
72	High step-up converter based on coupling inductor and bootstrap capacitors with active clamping 2012 ,		3
71	KY converter with zero voltage switching 2010 ,		3
70	A Simple Resonant Voltage Divider 2009 ,		3

69	Soft Switching of Negative-Output KY Buck Converter 2009 ,		3
68	A Novel Dimming Technique for Cold Cathode Fluorescent Lamp. <i>IEEE Transactions on Industry Applications</i> , 2010 , 46, 2196-2201	4.3	3
67	Topology exchange between KY converter and its derivative. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2008 ,		3
66	A simple passive ZCS circuit for PFC converter. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2008 ,		3
65	Design of a digitalized burn-in test plant 2008 ,		3
64	A gate driver with negative and double positive output voltages under positive-voltage source. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2008 ,		3
63	Applying FPGA Control with ADC-Free Sampling to Multi-Output Forward Converter. <i>Electronics (Switzerland)</i> , 2021 , 10, 1010	2.6	3
62	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
61	Thermoelectric Energy Conversion System With Multiple Inputs. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 1603-1621	7.2	3
60	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
59	Thermoelectric Conversion System With Dimmable LED Lighting. <i>IEEE Access</i> , 2019 , 7, 42396-42407	3.5	2
58	Simple Structure of Soft Switching for Boost Converter. <i>Energies</i> , 2020 , 13, 5448	3.1	2
57	Applying module-link method to multiple power supplies paralleled 2017 ,		2
56	A fast response voltage control circuit for automotive alternator system 2016 ,		2
55	Ultra high step-down converter 2014 ,		2
54	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
53	A novel high step-up converter 2013 ,		2
52	Digital control of isolated two-stage DC-DC converter with synchronization considered 2009 ,		2

51	Performance Enhancement of Boost Converter Based on Linear-to-Nonlinear Translator 2009 ,		2
50	On the design of fuzzy-controlled KY converter 2009 ,		2
49	Dual-output buck-boost converter with positive and negative output voltages under single positive voltage source fed 2010 ,		2
48	Estimation of individual leakage inductances of a transformer based on measurements 2008 ,		2
47	A Forward Converter Having an FPGA-based PID Controller with Parameters On-line Tuned		2
46	Improved KY Converter. <i>Journal of Electrical Engineering and Technology</i> , 2015 , 10, 1578-1588	1.4	2
45	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
44	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
43	Active Clamp Boost Converter with Blanking Time Tuning Considered. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 860	2.6	2
42	Analysis and design of type 3 compensator for the buck converter based on PSIM 2018 ,		2
41	Minimization of Output Voltage Ripple of Two-Phase Interleaved Buck Converter with Active Clamp. <i>Energies</i> , 2021 , 14, 5215	3.1	2
40	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
39	Bridgeless Buck-Boost PFC Rectifier with Positive Output Voltage. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3483	2.6	1
38	2015 ,		1
37	PFC Converter with Improved Input Current Zero-crossing Distortion. <i>Electric Power Components and Systems</i> , 2017 , 45, 1329-1338	1	1
36	Three-level boost converter with zero voltage transition. <i>Journal of Engineering</i> , 2017 , 2017, 354-361	0.7	1
35	Study and simulation on control-to-output transfer function of KY boost converter 2015 ,		1
34	A gate driver with output voltage equal to triple input voltage 2012 ,		1

33	A novel inductor-coupled step-up-down converter 2012,		1
32	A Buck Resonant Voltage Divider With Bidirectional Operation Considered. <i>IEEE Transactions on Industry Applications</i> , 2013 , 49, 1566-1576	4.3	1
31	Fully-digitalized implementation of PFC rectifier in CCM without ADC 2011,		1
30	Applying DSP-based two-stage AC-DC converter to drive SRM with sampling and startup considered 2009,		1
29	High step-up converter based on two charge pumps with one inductor inserted 2011,		1
28	A buck resonant voltage divider with bidirectional operation considered 2011,		1
27	A novel gate driver with output having positive input voltage and negative double input voltage 2012,		1
26	A novel negative-output KY boost converter 2009,		1
25	Negative-output KY buck-boost converter 2009,		1
24	2nd-order derived KY converters: 1-plus-2D and 2-plus-D converters 2008,		1
23	A Novel Gate Driver with Output Voltage Having Double Source Voltage 2007,		1
22	A Novel Gate Driver with Positive and Negative Output Voltages 2007,		1
21	Feedforward Compensation for One-Comparator Counter-Based PWM Control Based on FPGA 2007,		1
20	Improvement of Transient Load Response for the ZVS Buck Converter Using FPGA-based Control. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2007,		1
19	Improvement of the Unloading Transient Response for the PFM-controlled Buck-type Converter 2006,		1
18	LLC LED Driver with Current-Sharing Capacitor Having Low Voltage Stress. <i>Energies</i> , 2021 , 14, 112	3.1	1
17	Improvement in Voltage Conversion Ratio of Ultrahigh Step-Down Converter. <i>Energies</i> , 2019 , 12, 3896	3.1	1
16	ZETA Dual-Loop Control Based on Voltage Across Transferring Capacitor Sensed 2019,		1

15	Light-Load Efficiency Improvement for Ultrahigh Step-Down Converter Based on Skip Mode. <i>Electronics (Switzerland)</i> , 2021 , 10, 355	2.6	1
14	Series-Based AC LED Driver with Efficiency Improved. <i>Electric Power Components and Systems</i> , 2018 , 46, 637-646	1	1
13	Bridgeless Isolated AC LED Driver. <i>Processes</i> , 2021 , 9, 1173	2.9	1
12	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
11	Enhancement of System Stability Based on PWM. <i>Electronics (Switzerland)</i> , 2019 , 8, 399	2.6	0
10	Development of Four-Channel Buck-Type LED Driver with Automatic Current Sharing. <i>Energies</i> , 2021 , 14, 7844	3.1	0
9	Soft Switching of Non-Isolated Buck-Type Converter with Common-Ground Switch. <i>Energies</i> , 2021 , 14, 5290	3.1	0
8	A Single-Voltage-Source Class-D Boost Multi-Level Inverter with Self-Balanced Capacitors. <i>Energies</i> , 2022 , 15, 4082	3.1	0
7	Improvement in Voltage Gain of Interleaved High Step-Down Converter. <i>Energies</i> , 2020 , 13, 1019	3.1	
6	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	
5	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	
4	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	
3	Dynamic Response Improvement Based on PID Control. <i>IEEJ Journal of Industry Applications</i> , 2016 , 5, 26-31	0.7	
2	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	
1	Development of a Thermal Energy Harvesting Converter with Multiple Inputs and an Isolated Output. <i>Energies</i> , 2022 , 15, 273	3.1	