

Chang-Hua Lin

List of Publications by Year in descending order

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all docs

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91
times ranked

340
citing authors

#	ARTICLE	IF	CITATIONS
1	A Non-Inverting High Gain DC-DC Converter With Continuous Input Current. IEEE Access, 2021, 9, 54710-54721.	4.2	46
2	A New Transformerless Ultra High Gain DC-DC Converter for DC Microgrid Application. IEEE Access, 2021, 9, 124560-124582.	4.2	46
3	Integrating a supercapacitor with capacitive deionization for direct energy recovery from the desalination of brackish water. Applied Energy, 2019, 252, 113417.	10.1	38
4	A novel photovoltaic system control strategies for improving hill climbing algorithm efficiencies in consideration of radian and load effect. Energy Conversion and Management, 2018, 165, 815-826.	9.2	35
5	A New High-Gain DC-DC Converter with Continuous Input Current for DC Microgrid Applications. Energies, 2021, 14, 2629.	3.1	28
6	Investigation of Vehicle Positioning by Infrared Signal-Direction Discrimination for Short-Range Vehicle-to-Vehicle Communications. IEEE Transactions on Vehicular Technology, 2018, 67, 11563-11574.	6.3	21
7	A Family of Transformerless Quadratic Boost High Gain DC-DC Converters. Energies, 2021, 14, 4372.	3.1	21
8	Design and realisation of a zero-voltage transition pulse-width modulation interleaved boost power factor correction converter. IET Power Electronics, 2015, 8, 1542-1551.	2.1	17
9	A High Step-up DC-DC Converter Based on the Voltage Lift Technique for Renewable Energy Applications. Sustainability, 2021, 13, 11059.	3.2	14
10	Comprehensive Analysis of IPT v/s CPT for Wireless EV Charging and Effect of Capacitor Plate Shape and Foreign Particle on CPT. Processes, 2021, 9, 1619.	2.8	13
11	A Voltage Multiplier Circuit Based Quadratic Boost Converter for Energy Storage Application. Applied Sciences (Switzerland), 2020, 10, 8254.	2.5	12
12	Power Loss Analysis and a Control Strategy of an Active Cell Balancing System Based on a Bidirectional Flyback Converter. Applied Sciences (Switzerland), 2020, 10, 4380.	2.5	12
13	A GMPPT algorithm for preventing the LMPP problems based on trend line transformation technique. Solar Energy, 2020, 198, 53-67.	6.1	10
14	A New High Voltage Gain DC to DC Converter with Low Voltage Stress for Energy Storage System Application. Electronics (Switzerland), 2020, 9, 2067.	3.1	9
15	Design and implementation of a bi-directional power converter for electric bike with charging feature. , 2010, , .		8
16	Analysis, design and realisation of a zero-current transition pulse-width modulation interleaved boost power factor correction converter with a zero-current transition auxiliary circuit. IET Power Electronics, 2015, 8, 1777-1785.	2.1	8
17	Novel Global-MPPT Control Strategy Considering the Variation in the Photovoltaic Module Output Power and Loads for Solar Power Systems. Processes, 2022, 10, 367.	2.8	8
18	Design of resonant backlight inverter by using primary-side control and double-ended driving. , 2009, , .		7

#	ARTICLE	IF	CITATIONS
19	A Novel Photovoltaic Module Quick Regulate MPPT Algorithm for Uniform Irradiation and Partial Shading Conditions. Processes, 2021, 9, 2213.	2.8	7
20	Reducing the Parasitic Capacitance Effect in LCD Panel for Backlight Module Based on Primary-Side Control and DPLL Technique. IEEE Transactions on Industrial Electronics, 2009, 56, 2918-2922.	7.9	6
21	Operation of a UXE-Type 11-Level Inverter with Voltage-Balance Modulation Using NLC and ACO-Based SHE. Sustainability, 2021, 13, 9035.	3.2	6
22	A ZVS-PWM interleaved transformer-isolated boost DC/DC converter with a simple zvs-pwm auxiliary circuit. , 2012, , .		5
23	A High Gain Modified Quadratic Boost DC-DC Converter with Voltage Stress Half of Output Voltage. Applied Sciences (Switzerland), 2022, 12, 4914.	2.5	5
24	A ZVS-PWM voltage-doubler rectifier with high power factor. , 2008, , .		4
25	Design and implementation of six-phase PWM dimming control for backlight inverter. , 2010, , .		4
26	A ZVS-PWM inverter using a simple ZVS-PWM auxiliary commutation pole. , 2011, , .		4
27	Start-Up Current Spike Mitigation of High-Power Laser Diode Driving Controller for Vehicle Headlamp Applications. Applied Sciences (Switzerland), 2018, 8, 1532.	2.5	4
28	A novel MPPT algorithm considering solar photovoltaic modules and load characteristics for a single stage standalone solar photovoltaic system. IEICE Electronics Express, 2020, 17, 20200099-20200099.	0.8	4
29	Development and implementation of a laser headlight system for electro-optic characteristic measurement and comparison. International Journal of Circuit Theory and Applications, 2020, 48, 294-307.	2.0	4
30	High voltage driving circuit with negative pulse feature for tubular field emission lamp. , 2010, , .		3
31	High performance single-stage transformer-isolated AC/DC converter. , 2010, , .		3
32	Zero-current-transition current-fed full-bridge PWM converter. , 2011, , .		3
33	Series-resonant battery charger with synchronous rectifiers for LiFePO ₄ battery pack. , 2011, , .		3
34	High-efficiency and low-stress ZVS-PWM bidirectional DC/DC converter for battery charger. , 2011, , .		3
35	Eliminating the Arcing Phenomenon in Field Emission Lighting Based on the Impulse-Power Technique. IEEE Transactions on Industrial Electronics, 2012, 59, 1929-1938.	7.9	3
36	Design rule and system parameters compare between multi-phase and multi-lamp PWM dimming control for backlight inverter. , 2011, , .		2

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37	A ZVS-PWM interleaved boost DC/DC converter. , 2013, , .		2
38	A ZCS-PWM interleaved boost DC/DC converter. , 2013, , .		2
39	A Microcontroller-based fast charger with state-of-charge estimation for LiCoO ₂ battery. , 2013, , .		2
40	Zero-current transition interleaved boost dc/dc converter. , 2014, , .		2
41	Design and implementation of a battery test system with energy recycling technique. IEICE Electronics Express, 2017, 14, 20170115-20170115.	0.8	2
42	New Control Scheme for Solar Power Systems under Varying Solar Radiation and Partial Shading Conditions. Processes, 2021, 9, 1359.	2.8	2
43	Simulation and implementation of a two-mode operation transconductance regulator with a Gallium Nitride High-Electron-Mobility Transistor. International Journal of Circuit Theory and Applications, 0, , .	2.0	2
44	Equivalent Circuit Establishments of a GaN High-Electron-Mobility Transistor and 635 nm Laser Diode for a Short-Pulsed Rising Current Simulation. Processes, 2021, 9, 1975.	2.8	2
45	A Novel VFVDC Optimized Full Bridge Inverter Control Strategy for Independent Solar Power Systems. IEEE Access, 2022, 10, 44231-44247.	4.2	2
46	A Novel MPPT Heating Control Strategy Applied to the Induction Heating System. Processes, 2022, 10, 1151.	2.8	2
47	High Performance Single-Phase Voltage Regulator with a Simple Circuit Topology. , 2007, , .		1
48	A Novel Zero-Voltage-Switching Single-Stage High-Power-Factor Electronic Ballast. , 2007, , .		1
49	A ZCS-PWM voltage-doubler rectifier with high power factor. , 2009, , .		1
50	A series-resonant single-phase ac chopper. , 2009, , .		1
51	A novel single-phase soft-switching AC chopper without auxiliary switches. , 2009, , .		1
52	Analysis and design of high performance voltage- doubler rectifier. , 2010, , .		1
53	High voltage pulse power supply for driving tubular field emission lamp based on flyback topology. , 2011, , .		1
54	A high power factor ZCS-PWM transformer-isolated voltage-double boost rectifier. , 2011, , .		1

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55	Pulse current generator for driving tubular field emission lamp based on DCM flyback converter. International Journal of Circuit Theory and Applications, 2012, 40, 1127-1141.	2.0	1
56	A ZVS-PWM interleaved boost rectifier. , 2013, , .		1
57	Design and implementation of a fast charger with SOC estimation technique for LiCoO ₂ battery. , 2013, , .		1
58	A single-stage resonant buck-boost ac voltage regulator. , 2015, , .		1
59	Implementation of state-of-charge and state-of-health estimation for lithium-ion batteries. , 2016, , .		1
60	A microcontroller-based battery test system with energy recycling technique. , 2017, , .		1
61	A Programmable Battery Tester with Energy Recycling Technique for Lithium-ion Battery. , 2018, , .		1
62	Employing a Laser Headlight Electrical System to Measure and Calculate Electro-Optic Conversion Efficiencies of Blue-Beam Laser Diodes. Electronics (Switzerland), 2020, 9, 1902.	3.1	1
63	Analysis of a New Tripled Boost High Voltage Gain $\langle \text{DC} \rangle / \langle \text{DC} \rangle$ Converter With Continuous Input Current. IEEJ Transactions on Electrical and Electronic Engineering, 2022, 17, 532-538.	1.4	1
64	High-power-factor soft-switched DC power supply system. , 2008, , .		0
65	A series-resonant single-phase step up/down AC chopper. , 2009, , .		0
66	Design and implementation of full-bridge driver for carbon nanotube field emission lamp. , 2009, , .		0
67	A forward converter employing a simple ZCS-PWM auxiliary circuit to achieve soft-switching and power transformer resetting. , 2010, , .		0
68	System parameters comparison between four-phase and six-phase PWM dimming control for backlight inverter. , 2010, , .		0
69	Design and analysis for backlight inverter with four-phase PWM dimming control. , 2011, , .		0
70	A soft-switching inverter using a voltage clamp soft-switching step-up/down DC link. , 2012, , .		0
71	A novel impulsed-power for field emission lighting with phase-locked loop feedback mechanism. , 2013, , .		0
72	System parameters compare between six-phase and improved twelve-phase PWM dimming control by design rule for backlight inverter. , 2013, , .		0

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73	A ZCS-PWM interleaved forward converter. , 2013, , .		0
74	An impulsed-power supply for field emission lamp with PLL feedback mechanism. , 2013, , .		0
75	A ZCS-PWM interleaved boost rectifier. , 2014, , .		0
76	Design of MCU-based electronic ballast for electrodeless fluorescent lamp. , 2014, , .		0
77	A MCU-based intelligent charger with multi-charging mode. , 2014, , .		0
78	High-power-factor ZCS-PWM DC power supply system. , 2015, , .		0
79	A ZCS-PWM interleaved boost rectifier. , 2015, , .		0
80	Design of a burst dimming controller with primary-side control for EFL electronic ballast. , 2015, , .		0
81	A SOC-based intelligent charger with multi-charging mode. , 2015, , .		0
82	Digital-dimming controller with primary-side regulation technique for EFL electronic ballast. , 2015, , .		0
83	A soft-switching interleaved boost rectifier. , 2015, , .		0
84	Implementation of an EFL electronic ballast with burst dimming capability. , 2016, , .		0
85	An impulse power driver for field emission lighting with variable-frequency control. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'uan, 2016, 39, 637-645.	1.1	0
86	A battery test platform with energy recycling feature based on sinusoidal loading technique. , 2018, , .		0
87	Eliminating The Problem of Trapping in Local Maximum Power Point under Partial Shading Conditions for PV System. , 2019, , .		0
88	Modified SPWM Control for a Single-Stage Differential Boost Inverter Applied in a BESS. Processes, 2021, 9, 1861.	2.8	0
89	A High Performance Soft-Switching AC/DC Converter. , 2019, , .		0
90	Modular design and validation for battery management systems based on dual-concentration architectures. Journal of Energy Storage, 2022, 53, 105068.	8.1	0