

# Chang-Hua Lin

## List of Publications by Year in descending order

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90  
papers

463  
citations

840776

11  
h-index

794594

19  
g-index

91  
all docs

91  
docs citations

91  
times ranked

340  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | 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         |
| 2  | Analysis of a New Tripled Boost High Voltage Gain $\langle \text{scp} \rangle \text{DC} \langle / \text{scp} \rangle / \langle \text{scp} \rangle \text{DC} \langle / \text{scp} \rangle$ Converter With Continuous Input Current. IEEJ Transactions on Electrical and Electronic Engineering, 2022, 17, 532-538. | 1.4 | 1         |
| 3  | A Novel VFVDC Optimized Full Bridge Inverter Control Strategy for Independent Solar Power Systems. IEEE Access, 2022, 10, 44231-44247.  | 4.2 | 2         |
| 4  | 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         |
| 5  | A Novel MPPT Heating Control Strategy Applied to the Induction Heating System. Processes, 2022, 10, 1151.   | 2.8 | 2         |
| 6  | Modular design and validation for battery management systems based on dual-concentration architectures. Journal of Energy Storage, 2022, 53, 105068.  | 8.1 | 0         |
| 7  | A New High-Gain DC-DC Converter with Continuous Input Current for DC Microgrid Applications. Energies, 2021, 14, 2629.  | 3.1 | 28        |
| 8  | A Family of Transformerless Quadratic Boost High Gain DC-DC Converters. Energies, 2021, 14, 4372.   | 3.1 | 21        |
| 9  | New Control Scheme for Solar Power Systems under Varying Solar Radiation and Partial Shading Conditions. Processes, 2021, 9, 1359.  | 2.8 | 2         |
| 10 | 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         |
| 11 | 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        |
| 12 | A Non-Inverting High Gain DC-DC Converter With Continuous Input Current. IEEE Access, 2021, 9, 54710-54721.   | 4.2 | 46        |
| 13 | A New Transformerless Ultra High Gain DC-DC Converter for DC Microgrid Application. IEEE Access, 2021, 9, 124560-124582.  | 4.2 | 46        |
| 14 | Modified SPWM Control for a Single-Stage Differential Boost Inverter Applied in a BESS. Processes, 2021, 9, 1861.   | 2.8 | 0         |
| 15 | A High Step-up DC-DC Converter Based on the Voltage Lift Technique for Renewable Energy Applications. Sustainability, 2021, 13, 11059.  | 3.2 | 14        |
| 16 | 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         |
| 17 | A Novel Photovoltaic Module Quick Regulate MPPT Algorithm for Uniform Irradiation and Partial Shading Conditions. Processes, 2021, 9, 2213.   | 2.8 | 7         |
| 18 | A Voltage Multiplier Circuit Based Quadratic Boost Converter for Energy Storage Application. Applied Sciences (Switzerland), 2020, 10, 8254.  | 2.5 | 12        |

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|----|---|------|-----------|
| 19 | Employing a Laser Headlight Electrical System to Measure and Calculate Electro-Optic Conversion Efficiencies of Blue-Beam Laser Diodes. <i>Electronics (Switzerland)</i> , 2020, 9, 1902.                       | 3.1  | 1         |
| 20 | Power Loss Analysis and a Control Strategy of an Active Cell Balancing System Based on a Bidirectional Flyback Converter. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4380.                               | 2.5  | 12        |
| 21 | A New High Voltage Gain DC to DC Converter with Low Voltage Stress for Energy Storage System Application. <i>Electronics (Switzerland)</i> , 2020, 9, 2067.   | 3.1  | 9         |
| 22 | A novel MPPT algorithm considering solar photovoltaic modules and load characteristics for a single stage standalone solar photovoltaic system. <i>IEICE Electronics Express</i> , 2020, 17, 20200099-20200099. | 0.8  | 4         |
| 23 | Development and implementation of a laser headlight system for electro-optic characteristic measurement and comparison. <i>International Journal of Circuit Theory and Applications</i> , 2020, 48, 294-307.    | 2.0  | 4         |
| 24 | A GMPPT algorithm for preventing the LMPP problems based on trend line transformation technique. <i>Solar Energy</i> , 2020, 198, 53-67.  | 6.1  | 10        |
| 25 | Integrating a supercapacitor with capacitive deionization for direct energy recovery from the desalination of brackish water. <i>Applied Energy</i> , 2019, 252, 113417.  | 10.1 | 38        |
| 26 | Eliminating The Problem of Trapping in Local Maximum Power Point under Partial Shading Conditions for PV System. , 2019, , .  |      | 0         |
| 27 | A High Performance Soft-Switching AC/DC Converter. , 2019, , .  |      | 0         |
| 28 | A novel photovoltaic system control strategies for improving hill climbing algorithm efficiencies in consideration of radian and load effect. <i>Energy Conversion and Management</i> , 2018, 165, 815-826.     | 9.2  | 35        |
| 29 | A Programmable Battery Tester with Energy Recycling Technique for Lithium-ion Battery. , 2018, , .  |      | 1         |
| 30 | Start-Up Current Spike Mitigation of High-Power Laser Diode Driving Controller for Vehicle Headlamp Applications. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1532.  | 2.5  | 4         |
| 31 | Investigation of Vehicle Positioning by Infrared Signal-Direction Discrimination for Short-Range Vehicle-to-Vehicle Communications. <i>IEEE Transactions on Vehicular Technology</i> , 2018, 67, 11563-11574.   | 6.3  | 21        |
| 32 | A battery test platform with energy recycling feature based on sinusoidal loading technique. , 2018, , .  |      | 0         |
| 33 | A microcontroller-based battery test system with energy recycling technique. , 2017, , .  |      | 1         |
| 34 | Design and implementation of a battery test system with energy recycling technique. <i>IEICE Electronics Express</i> , 2017, 14, 20170115-20170115.   | 0.8  | 2         |
| 35 | Implementation of state-of-charge and state-of-health estimation for lithium-ion batteries. , 2016, , .   |      | 1         |
| 36 | Implementation of an EFL electronic ballast with burst dimming capability. , 2016, , .  |      | 0         |

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|----|---|-----|-----------|
| 37 | 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'an, 2016, 39, 637-645. | 1.1 | 0         |
| 38 | High-power-factor ZCS-PWM DC power supply system. , 2015, , .   |     | 0         |
| 39 | A ZCS-PWM interleaved boost rectifier. , 2015, , .  |     | 0         |
| 40 | Design of a burst dimming controller with primary-side control for EFL electronic ballast. , 2015, , .  |     | 0         |
| 41 | A SOC-based intelligent charger with multi-charging mode. , 2015, , .   |     | 0         |
| 42 | Digital-dimming controller with primary-side regulation technique for EFL electronic ballast. , 2015, , .   |     | 0         |
| 43 | A soft-switching interleaved boost rectifier. , 2015, , .   |     | 0         |
| 44 | Design and realisation of a zeroâ€voltage transition pulseâ€width modulation interleaved boost power factor correction converter. IET Power Electronics, 2015, 8, 1542-1551.  | 2.1 | 17        |
| 45 | Analysis, design and realisation of a zeroâ€current transition pulseâ€width modulation interleaved boost power factor correction converter with a zeroâ€current transition auxiliary circuit. IET Power Electronics, 2015, 8, 1777-1785.              | 2.1 | 8         |
| 46 | A single-stage resonant buck-boost ac voltage regulator. , 2015, , .  |     | 1         |
| 47 | A ZCS-PWM interleaved boost rectifier. , 2014, , .  |     | 0         |
| 48 | Zero-current transition interleaved boost dc/dc converter. , 2014, , .  |     | 2         |
| 49 | Design of MCU-based electronic ballast for electrodeless fluorescent lamp. , 2014, , .  |     | 0         |
| 50 | A MCU-based intelligent charger with multi-charging mode. , 2014, , .   |     | 0         |
| 51 | A novel impulsed-power for field emission lighting with phase-locked loop feedback mechanism. , 2013, , .   |     | 0         |
| 52 | A ZVS-PWM interleaved boost rectifier. , 2013, , .  |     | 1         |
| 53 | System parameters compare between six-phase and improved twelve-phase PWM dimming control by design rule for backlight inverter. , 2013, , .  |     | 0         |
| 54 | A ZVS-PWM interleaved boost DC/DC converter. , 2013, , .  |     | 2         |

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|----|--|-----|-----------|
| 55 | A ZCS-PWM interleaved boost DC/DC converter. , 2013, , .   |     | 2         |
| 56 | A ZCS-PWM interleaved forward converter. , 2013, , .   |     | 0         |
| 57 | Design and implementation of a fast charger with SOC estimation technique for LiCoO <sub>2</sub> battery. , 2013, , .  |     | 1         |
| 58 | A Microcontroller-based fast charger with state-of-charge estimation for LiCoO <sub>2</sub> battery. , 2013, , .   |     | 2         |
| 59 | An impulsed-power supply for field emission lamp with PLL feedback mechanism. , 2013, , .  |     | 0         |
| 60 | A soft-switching inverter using a voltage clamp soft-switching step-up/down DC link. , 2012, , .   |     | 0         |
| 61 | A ZVS-PWM interleaved transformer-isolated boost DC/DC converter with a simple zvs-pwm auxiliary circuit. , 2012, , .  |     | 5         |
| 62 | 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         |
| 63 | 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         |
| 64 | High voltage pulse power supply for driving tubular field emission lamp based on flyback topology. , 2011, , .   |     | 1         |
| 65 | Zero-current-transition current-fed full-bridge PWM converter. , 2011, , .   |     | 3         |
| 66 | Series-resonant battery charger with synchronous rectifiers for LiFePO <sub>4</sub> battery pack. , 2011, , .  |     | 3         |
| 67 | High-efficiency and low-stress ZVS-PWM bidirectional DC/DC converter for battery charger. , 2011, , .  |     | 3         |
| 68 | Design rule and system parameters compare between multi-phase and multi-lamp PWM dimming control for backlight inverter. , 2011, , .   |     | 2         |
| 69 | A ZVS-PWM inverter using a simple ZVS-PWM auxiliary commutation pole. , 2011, , .  |     | 4         |
| 70 | A high power factor ZCS-PWM transformer-isolated voltage-double boost rectifier. , 2011, , .   |     | 1         |
| 71 | Design and analysis for backlight inverter with four-phase PWM dimming control. , 2011, , .  |     | 0         |
| 72 | High voltage driving circuit with negative pulse feature for tubular field emission lamp. , 2010, , .  |     | 3         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | A forward converter employing a simple ZCS-PWM auxiliary circuit to achieve soft-switching and power transformer resetting. , 2010, , .   |     | 0         |
| 74 | High performance single-stage transformer-isolated AC/DC converter. , 2010, , .   |     | 3         |
| 75 | Analysis and design of high performance voltage- doubler rectifier. , 2010, , .   |     | 1         |
| 76 | Design and implementation of a bi-directional power converter for electric bike with charging feature. , 2010, , .  |     | 8         |
| 77 | Design and implementation of six-phase PWM dimming control for backlight inverter. , 2010, , .  |     | 4         |
| 78 | System parameters comparison between four-phase and six-phase PWM dimming control for backlight inverter. , 2010, , .   |     | 0         |
| 79 | A ZCS-PWM voltage-doubler rectifier with high power factor. , 2009, , .   |     | 1         |
| 80 | A series-resonant single-phase ac chopper. , 2009, , .  |     | 1         |
| 81 | Design of resonant backlight inverter by using primary-side control and double-ended driving. , 2009, , .   |     | 7         |
| 82 | A novel single-phase soft-switching AC chopper without auxiliary switches. , 2009, , .  |     | 1         |
| 83 | 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         |
| 84 | A series-resonant single-phase step up/down AC chopper. , 2009, , .   |     | 0         |
| 85 | Design and implementation of full-bridge driver for carbon nanotube field emission lamp. , 2009, , .  |     | 0         |
| 86 | High-power-factor soft-switched DC power supply system. , 2008, , .   |     | 0         |
| 87 | A ZVS-PWM voltage-doubler rectifier with high power factor. , 2008, , .   |     | 4         |
| 88 | High Performance Single-Phase Voltage Regulator with a Simple Circuit Topology. , 2007, , .   |     | 1         |
| 89 | A Novel Zero-Voltage-Switching Single-Stage High-Power-Factor Electronic Ballast. , 2007, , .   |     | 1         |
| 90 | 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         |