

POWER ELECTRONICS

S.No	Title	Year
SOLAR ENERGY		
1	Nonlinear PWM-Controlled Single-Phase Boost Mode Grid- Connected Photovoltaic Inverter With Limited Storage Inductance Current	2017
2	A Family of Neutral-Point-Clamped Circuits of Single-Phase PV Inverters	2017
3	A New Six-Switch Five-Level Active Neutral Point Clamped Inverter for PV Applications	2017
4	Single-Stage Three-Phase Current-Source Photovoltaic Grid-Connected Inverter High Voltage Transmission Ratio	2017
5	A Highly Efficient and Reliable Inverter Configuration Based Cascaded Multilevel Inverter for PV Systems	2017
6	Modified Single-Phase Single-Stage Grid-tied Flying Inductor Inverter with MPPT and Suppressed Leakage Current	2017
7	A Multilevel Transformer less Inverter employing Ground Connection between PV Negative Terminal and Grid Neutral Point	2017
8	An Improved Zero-Current-Switching Single-Phase Transformer less PV H6 Inverter with Switching Loss-Free	2017
9	Modulation Technique for Single-Phase Transformer less Photovoltaic Inverters with Reactive Power Capability	2017
10	Delta Power Control Strategy for Multistring Grid-onnected PV Inverters	2017
11	Design of Cuk-Derived Transformer less Common- Grounded PV Micro inverter in CCM	2017
12	A Single-Phase Transformer less Inverter With Charge Pump Circuit Concept for Grid-Tied PV Applications	2017
13	A Novel Single-Stage Single-Phase Reconfigurable Inverter Topology for a Solar Powered Hybrid AC/DC Home	2017

WIND ENERGY

- 1 A Medium-Frequency Transformer-Based Wind Energy Conversion System Used for Current-Source Converter-Based Offshore Wind Farm 2017
- 2 Replacing the Grid Interface Transformer in Wind Energy Conversion System With Solid-State Transformer
- 3 Bipolar Operation Investigation of Current Source Converter-Based Wind Energy Conversion Systems 2017
- 4 Control Strategy of Wind Turbine Based on Permanent Magnet Synchronous Generator and Energy Storage for Stand-Alone Systems 2017
- 5 Novel Isolated Power Conditioning Unit for Micro Wind Turbine Application 2017

MICROGRID

- 1 Bidirectional Single-Stage Grid-Connected Inverter for a Battery Energy Storage System 2017
- 2 Electric Vehicle Charging Station With an Energy Storage Stage for Split-DC Bus Voltage Balancing 2017
- 3 A Decentralized Dynamic Power Sharing Strategy for Hybrid Energy Storage System in Autonomous DC Microgrid 2017
- 4 Control of a Hybrid AC/DC Microgrid Involving Energy Storage and Pulsed Load 2017
- 5 Hybrid Energy Storage System Micro Grids Integration For Power Quality Improvement Using Four Leg Three Level NPC Inverter and Second Order Sliding Mode Control 2017

MULTIPOINT

- 1 Secondary-Side-Regulated Soft-Switching Full-Bridge Three-Port Converter Based on Bridgeless Boost Rectifier and Bidirectional Converter for Multiple Energy Interface 2017

LABTECH INNOVATIONS™

Date: 04.09.2017

- 2 Analysis, Design, Modelling, and Control of an Interleaved- Boost Full-Bridge Three-Port Converter for Hybrid Renewable Energy Systems 2017
- 3 Design and Implementation of an Amorphous High- Frequency Transformer Coupling Multiple Converters in a Smart Micro grid 2017
- 4 Dual-DC-Port Asymmetrical Multilevel Inverters With Reduced Conversion Stages and Enhanced Conversion Efficiency 2017
- 5 Dual-Transformer-Based Asymmetrical Triple-Port Active Bridge Isolated DC-DC Converter 2017

INVERTER

- 1 A Highly Reliable and High-Efficiency Quasi Single-Stage Buck-Boost Inverter 2017
- 2 A Four-Switch Single-Stage Single-Phase Buck-Boost Inverter 2017
- 3 Interleaved Resonant Boost Inverter Featuring SiC Module for High Performance Induction Heating 2017
- 4 Modelling and Optimization of a Zero-Voltage Switching Inverter for High Efficiency and Miniaturization 2017
- 5 Maximum Boost Control of Diode-Assisted Buck-Boost Voltage-Source Inverter With Minimum Switching Frequency 2017

MULTI LEVEL AND ZSOURCE INVERTER

- 1 A Novel Nine-Level Inverter Employing One Voltage Source and Reduced Components as High-Frequency AC Power Source 2017
- 2 Quasi Cascaded H-Bridge Five-Level Boost Inverter 2017
- 3 Steady-State Analysis and Design Considerations of High Voltage Gain Switched Z-Source Inverter With Continuous Input Current 2017
- 4 A New Class of Single-Phase High-Frequency Isolated Z Source AC-AC Converters with Reduced Passive Components 2017
- 5 Enhanced-Boost Quasi-Z-Source Inverters with Two Switched Impedance Network 2017

- 6 High-Voltage Gain Half-Bridge Z-Source Inverter With Low-Voltage Stress on Capacitors 2017

DRIVES

- 1 A Novel Method of Reducing Commutation Torque Ripple for Brushless DC Motor Based on Cuk Converter 2017
- 2 Design and Demonstration of High Power Density Inverter for Aircraft Applications
- 3 Commutation Torque Ripple Reduction in BLDC Motor Using Modified SEPIC converter and three-level NPC inverter 2017
- 4 Quasi-Z-Source Indirect Matrix Converter Fed Induction Motor Drive for Flow Control of Dye in Paper Mill 2017
- 5 Commutation Torque Ripple Suppression Strategy for Brushless DC Motors With a Novel Non-inductive BoostFront End 2017

WIRELESS POWER TRANSFER

- 1 Z-Source Resonant Converter With Constant Frequency and Load Regulation for EV Wireless Charger 2017
- 2 Bidirectional Current-Fed Half-Bridge Configuration for Inductive Wireless Power Transfer System 2017
- 3 A New Integration Method for an Electric Vehicle Wireless Charging System Using LCC Compensation Topology 2017
- 4 Higher Order Compensation for Inductive-Power-Transfer Converters With Constant-Voltage or Constant-Current Output Combating Transformer Parameter Constraints 2017
- 5 Modelling and Analysis of AC Output Power Factor for Wireless Chargers in Electric Vehicles 2017
- 6 Simultaneous Wireless Power Transfer for Electric Vehicle charging 2017

CONVERTERS:BUCKBOOST, SEPIC,FLYBACK,PUSHPULL

- 1 Design and Analysis of a Class of Zero Fundamental Ripple Converters 2017
- 2 Analysis and Design of Impulse-Commutated Zero-Current- Switching Single-Inductor Current-Fed Three-Phase Push– Pull Converter 2017
- 3 A Cascaded Coupled Inductor-Reverse High Step-Up Converter Integrating Three-Winding Coupled Inductor and Diode–Capacitor Technique 2017
- 5 Passive Regenerative and Dissipative Snubber Cells for Isolated SEPIC Converters 2017
- 6 A New Negative Output Buck-Boost Converter with Wide Conversion Ratio 2017
- 7 A Novel Structure for Single-Switch Non isolated Transformer less Buck–Boost DC–DC Converter 2017
- 8 High-Efficiency Asymmetric Forward-Flyback Converter for Wide Output Power Range 2017

HIGH -VOLTAGE

- 1 A High-Voltage-Gain DC–DC Converter Based on Modified Dickson Charge Pump Voltage Multiplier 2017
- 2 Zero-Ripple Input-Current High-Step-Up Boost–SEPIC DC– DC Converter With Reduced Switch-Voltage Stress 2017
- 3 Ultra large Gain Step-Up Coupled-Inductor DC–DC Converter With an Asymmetric Voltage Multiplier Network for a Sustainable Energy System 2017
- 4 A High Step-up PWM DC-DC Converter With Coupled- Inductor and Resonant Switched-Capacitor 2017
- 5 A High-Efficiency Step-Up Current-Fed Push–Pull Quasi- Resonant Converter With Fewer Components for Fuel Cell Application 2017

BIDIRECTIONAL CONVERTER

- 1 Cascaded High-Voltage-Gain Bidirectional Switched-Capacitor DC-DC Converters for Distributed Energy Resources Applications 2017
- 2 High Light-Load Efficiency Power Conversion Scheme Using Integrated Bidirectional Buck Converter for Paralleled Server Power Supplies 2017
- 3 Soft switched Modulation Techniques for an Isolated Bidirectional DC-AC 2017
- 4 A Family of True Zero Voltage Zero Current Switching Non isolated Bidirectional DC-DC Converter With Wide Soft Switching Range 2017
- 5 Modelling and Analysis of Dual-Active-Bridge Isolated Bidirectional DC/DC Converter to Minimize RMS Current with Whole Operating Range 2017
- 6 A Control Map for a Bidirectional PWM Plus Phase-Shift- Modulated Push-Pull DC-DC Converter 2017
- 7 Interleaved Switched-Capacitor Bidirectional DC-DC Converter with Wide Voltage-Gain Range for Energy Storage Systems 2017
- 8 A Novel Reversal Coupled Inductor High-Conversion-Ratio Bi-directional DC-DC Converter 2017

MULTIPLE OUTPUT CONVERTER

- 1 Design and Implementation of a High-Efficiency Multiple Output Charger Based on the Time-Division Multiple Control Technique 2017
- 2 Analysis and Design of an Input-Series Two-Transistor Forward Converter for High-Input Voltage Multiple-Output Applications 2017
- 3 A Dual-Buck-Boost AC/DC Converter for DC Nanogrid With Three Terminal Outputs 2017
- 4 Improved Power Quality Bridgeless Converter-Based SMPS for Arc Welding 2017

LED APPLICATONS

- 1 An AC–DC LED Driver With a Two-Parallel Inverted Buck Topology for Reducing the Light Flicker in Lighting Applications to Low-Risk Levels 2017
- 2 Single-Stage Single-Switch Four-Output Resonant LED Driver With High Power Factor and Passive Current Balancing 2017
- 3 Single-Switch Coupled-Inductor-Based Two-Channel LED Driver With a Passive Regenerative Snubber 2017
- 4 Analysis and Design of a Single-Stage Isolated AC–DC LED Driver With a Voltage Doubler Rectifier 2017
- 5 Flyback-Based Three-Port Topologies for Electrolytic Capacitor-Less LED Drivers 2017
- 6 A Single-Switch AC–DC LED Driver Based on a Boost- Flyback PFC Converter With Lossless Snubber 2017

POWER FACTOR CORRECTION

- 1 Flexible Mode Bridgeless Boost PFC Rectifier With High Efficiency Over a Wide Range of Input Voltage 2017
- 2 A Family of Single-Phase Voltage-Doubler High-Power- Factor SEPIC Rectifiers Operating in DCM 2017
- 3 A Family of Single-Phase Hybrid Step-Down PFC Converters 2017
- 4 A Boost PFC Stage Utilized as Half-Bridge Converter for High-Efficiency DC–DC Stage in Power Supply Unit 2017

SOFT SWITCHING CONVERTER

- 1 A T-Type Isolated Zero Voltage Switching DC–DC Converter With Capacitive Output 2017
- 2 A Hybrid ZVZCS Dual-Transformer-Based Full-Bridge Converter Operating in DCM for MVDC Grids 2017

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| 3 | A New ZVT Snubber Cell for PWM-PFC Boost Converter | 2017 |
| 4 | High-Efficiency Soft-Switching AC-DC Converter With Single-Power-Conversion Method | 2017 |
| 5 | Soft-Switching Dual-Fly back DC-DC Converter With Improved Efficiency and Reduced Output Ripple Current | 2017 |

RESONANT CONVERTER

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| 6 | Analysis and Design of SQR-Based High-Voltage LLC Resonant DC-DC Converter | 2017 |
| 7 | A New Dual-Bridge Series Resonant DC-DC Converter with Dual-Tank | 2017 |
| 8 | A Quasi-Resonant Current-Fed Converter With Minimum Switching Losses | 2017 |
| 9 | Design and Steady-State Analysis of Parallel Resonant DC-DC Converter for High-Voltage Power Generator | 2017 |
| 10 | Dual-Bridge LLC Resonant Converter With Fixed-Frequency PWM Control for Wide Input Applications | 2017 |

Z SOURCE CONVERTER

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| 1 | High-Performance Quasi-Z-Source Series Resonant DC-DC Converter for Photovoltaic Module-Level Power Electronics Applications | 2017 |
| 2 | Load and Source Battery Simulator Based on Z-Source Rectifier | 2017 |
| 3 | Wide Input-Voltage Range Boost Three-Level DC-DC Converter With Quasi-Z Source for Fuel Cell Vehicles | 2017 |
| 4 | Quasi-Z-Source Network-Based Hybrid Power Supply System for Aluminium Electrolysis Industry | 2017 |
| 5 | Hybrid Z-Source Boost DC-DC Converters | 2017 |

INTERLEAVED CONVERTER



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Date: 04.09.2017

- 1 Interleaved LLC Resonant Converter With Hybrid Rectifier and Variable-Frequency Plus Phase-Shift control for Wide Output Voltage Range Applications 2017
- 2 Zero-Voltage-Transition Interleaved Boost Converter With an Auxiliary Coupled Inductor 2017
- 3 A Novel Interleaved Non isolated Ultrahigh-Step-Up DC-DC Converter With ZVS Performance 2017
- 4 Discontinuous Current Mode Operation of Two-Phase Interleaved Boost Dc-dc Converter with Coupled-inductor 2017
- 5 A Novel Soft-Switching Interleaved Coupled-Inductor Boost Converter with Only Single Auxiliary Circuit 2017

Warm Regards,
Labtech Innovations™

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