POWER ELECTRONICS 2017 IEEE PROJECT

1. An Isolated Semi resonant DC/DC Converter for High Power applications
   A High Step-up PWM DC–DC Converter With Coupled-Inductor and Resonant Switched-Capacitor

2. A Novel Source Current Control Strategy and Its Stability Analysis for an Indirect Matrix Converter

3. A Soft-Switching Bridgeless AC–DC Power Factor Correction Converter

4. Design and Experimental Testing of a Resonant DC–DC Converter for Solid-State Transformers


6. An Asymmetric Half-Bridge Resonant Converter Having a Reduced Conduction Loss for DC/DC Power Applications with a Wide Range of Low Input Voltage

7. Performance Evaluation of a Semi-Dual-Bridge Resonant DC/DC Converter with Secondary Phase-Shifted Control

8. A Novel Soft Switching Bidirectional DC–DC Converter Using Magnetic and Capacitive Hybrid Power Transfer

9. Single-Phase Single-Stage Isolated ZCS Current-Fed Full-Bridge Converter for High-Power AC/DC Applications

10. A Synchronous Buck DC–DC Converter Using a Novel Dual-Mode Control Scheme to Improve Efficiency

11. Plug-In Repetitive Control Strategy for High-Order Wide-Output Range Impedance-Source Converters

12. A Hybrid Resonant Pulse-Width Modulation Bridgeless AC–DC Power Factor Correction Converter

14. Two-Stage 48 V-12 V/6 V-1.8 V Voltage Regulator Module With Dynamic Bus Voltage Control for Light-Load Efficiency Improvement

15. Comprehensive Analysis of Three-Phase Three-Level LC-Type Resonant DC/DC Converter with Variable Frequency Control—Series Resonant Converter

16. Single-Switch Quasi-Resonant DC–DC Converter for a Pulsed Plasma Thruster of Satellites

17. Analysis and Design of SQR-Based High-Voltage LLC Resonant DC–DC Converter

18. An Integrated Battery Charger With High Power Density and Efficiency for Electric Vehicles

19. Low-Frequency DC-Link Ripple Elimination in Power Converters with Reduced Capacitance by Multi resonant Direct Voltage Regulation

20. A Dual Series-Resonant DC–DC Converter


22. Harmonic Burst Control Strategy for Full-Bridge Series-Resonant Converter-Based EV Charging

23. A Digital Current Control Technique for Grid-Connected AC/DC Converters Used for Energy Storage Systems

24. Analysis, Design, and Experimentation of a Dimmable Resonant-Switched-Capacitor LED Driver with Variable Inductor Control

25. A Family of High-Frequency Single-Switch DC–DC Converters with Low Switch Voltage Stress Based on Impedance Networks
26. An Average Input Current Sensing Method of LLC Resonant Converters for Automatic Burst Mode Control

27. Dead Time Effect on the Double-Loop Control Strategy for a Boost Inverter

28. A Full Soft-Switching ZVZCS Flyback Converter Using an Active Auxiliary Cell

29. Active Suppression of Selected DC Bus Harmonics for Dual Active Bridge DC-DC Converters

30. A DC-Voltage-Controlled Variable Capacitor for Stabilizing the ZVS Frequency of a Resonant Converter for Wireless Power Transfer

31. A Fault-Tolerant Series-Resonant DC–DC Converter

32. Design and Steady-State Analysis of Parallel Resonant DC–DC Converter for High-Voltage Power Generator

33. Quasi-Z-Source Network-Based Hybrid Power Supply System for Aluminum Electrolysis Industry

34. Hybrid Pulse width Modulated Single-Phase Quasi-Z-Source Grid-Tie Photovoltaic Power System

35. Current Ripple Damping Control to Minimize Impedance Network for Single-Phase Quasi-Z Source Inverter System

36. Single-Stage Three-Phase Current-Source Photovoltaic Grid-Connected Inverter High Voltage Transmission Ratio

37. Stability Analysis and Controller Synthesis for Single-Loop Voltage-Controlled VSIs


39. A Three-Level LC-Switching-Based Voltage Boost NPC Inverter Model-Based Active Damping Control for Three-Phase Voltage Source Inverters With LCL Filter
40. A New Single-Phase Switched-Coupled-Inductor DC–AC Inverter for Photovoltaic Systems

41. Direct Model Predictive Current Control Strategy of Quasi-Z-Source Inverters

42. A Superconducting Magnetic Energy Storage-Emulator/Battery Supported Dynamic Voltage Restorer

43. An experimental study of modified space vector modulation applied to quasi Z source inverters using FPGA

44. A Highly Reliable and High-Efficiency Quasi Single-Stage Buck–Boost Inverter

45. ZVS Phase-Shift PWM-Controlled Single-Stage Boost Full-Bridge AC–AC Converter for High-Frequency Induction Heating Applications

46. Voltage THD Reduction for Dual-Inverter Fed Open-End Load With Isolated DC Sources

47. Photovoltaic Module-Integrated Stand-alone Single-Stage Switched Capacitor Inverter with Maximum Power Point Tracking

48. SSR Mitigation With a New Control of PV Solar Farm as STATCOM (PV-STATCOM)

49. Sensitive Load Voltage Compensation Performed by a Suitable Control Method

50. Clustered Voltage Balancing Mechanism and its Control Strategy for Star-Connected Cascaded H-Bridge STATCOM

51. Fuzzy Logic Based UPFC and Laboratory Prototype Validation for Dynamic Power Flow Control in Transmission Lines

52. Power Control with Z-Source Converter based Unified Power Flow Controller

53. A Transformer-less Unified Power Quality Conditioner with Fast Dynamic Control

54. Modified p-q Theory Based Control of Solar PV Integrated UPQC-S