



Buddha Electrical Smart Technologies

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PROJECT LIST

Keywords: Converters, Inverters.

1. A Novel Three-Phase Buck–Boost AC–DC Converter(IEEE-2014)
2. A Two-Mode Control Scheme With Input Voltage Feed-Forward for the Two-Switch Buck-Boost DC–DC Converter(IEEE-2014)
3. Synthesis of Canonical Elements for Power Processing in DC Distribution Systems Using Cascaded Converters and Sliding-Mode Control (IEEE-2014)
4. Capacitor Voltage Control Strategy for Half-Bridge Three-Level DC/DC Converter (IEEE-2014)
5. A New ZCS-PWM Full-Bridge DC–DC Converter With Simple Auxiliary Circuits (IEEE-2014)
6. A Three-Level Integrated AC–DC Converter (IEEE-2014)
7. 6.6-kW Onboard Charger Design Using DCM PFC Converter With Harmonic Modulation Technique and Two-Stage DC/DC Converter (IEEE-2014)
8. A Decentralized Controller Architecture for a Cascaded H-Bridge Multilevel Converter (IEEE-2014)
9. Asymmetrical Grid Fault Ride-Through Strategy of Three-Phase Grid-Connected Inverter Considering Network Impedance Impact in Low-Voltage Grid (IEEE-2014)
10. High-Voltage Gain Boost Converter Based on Three-State Commutation Cell for Battery Charging Using PV Panels in a Single Conversion Stage (IEEE-2014)
11. A Model Predictive Control System for a Hybrid Battery-Ultracapacitor Power Source (IEEE-2014)
12. High Step-Up High-Efficiency Interleaved Converter With Voltage Multiplier Module for Renewable Energy System (IEEE-2014)
13. Multiport Converters Based on Integration of Full-Bridge and Bidirectional DC–DC Topologies for Renewable Generation Systems (IEEE-2014)
14. On/Off Control of Boost PFC Converters to Improve Light-Load Efficiency in Paralleled Power Supply Units for Servers (IEEE-2014)
15. Analysis of Unified Output MPPT Control in Subpanel PV Converter System (IEEE-2014)

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16. Overview of Space Vector Modulations for Three-Phase Z-Source/Quasi-Z-Source Inverters (IEEE-2014)
17. An Analytical Steady-State Model of LCC type Series-Parallel Resonant Converter With Capacitive Output Filter (IEEE-2014)
18. Ultraflat Interleaved Triangular Current Mode (TCM) Single-Phase PFC Rectifier (IEEE-2014)
19. New ZVS DC-DC Converter With Series-Connected Transformers to Balance the Output Currents (IEEE-2014)
20. An Improved ZVT-ZCT PWM DC-DC Boost Converter With Increased Efficiency (IEEE-2014)
21. Selective Harmonic Compensation (SHC) PWM for Grid-Interfacing High-Power Converters (IEEE-2014)
22. Sensorless Control of BLDC Motor Drive for an Automotive Fuel Pump Using a Hysteresis Comparator (IEEE-2014)
23. Analysis and Design of a Current-Source CLCC Resonant Converter for DBD Applications (IEEE-2014)
24. An Effective Direct-SVM Method for Matrix Converters Operating With Low-Voltage Transfer Ratio (IEEE-2013)
25. Design Optimization of Quasi-Active Gate Control for Series Connected Power Devices (IEEE-2013)



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Keywords: Microgrid, Distributed Generation (DG's), Grid

1. Distributed Secondary Control for Islanded Microgrids—A Novel Approach (IEEE-2014)
2. DC Islands in AC Smart Grids (IEEE-2014)
3. Autonomous Voltage Unbalance Compensation in an Islanded Droop-Controlled Microgrid(IEEE-2013)
4. One-Cycle-Controlled Single-Stage Single-Phase Voltage-Sensorless Grid-Connected PV System(IEEE-2013)
5. Multilevel DC-Link Inverter and Control Algorithm to Overcome the PV Partial Shading(IEEE-2013)
6. Cascaded Current–Voltage Control to Improve the Power Quality for a Grid-Connected Inverter With a Local Load (IEEE-2013)
7. Improved Active Power Filter Performance for Renewable Power Generation Systems(IEEE-2013)
8. DC Voltage Controller for Asymmetric-Twin-Converter-Topology-Based High-Power STATCOM(IEEE-2013)
9. Novel High Step-Up DC–DC Converter for Distributed Generation System (IEEE-2013)
10. Voltage-Based Control of a Smart Transformer in a Microgrid (IEEE-2013)
11. Reactive Power Compensation in Single-Phase Operation of Microgrid (IEEE-2013)
12. Voltage-Based Droop Control of Renewables to Avoid ON–OFF Oscillations Caused by Overvoltages(IEEE-2013)
13. Advanced Control Architectures for Intelligent Microgrids—Part I: Decentralized and Hierarchical Control(IEEE-2013)
14. Advanced Control Architectures for Intelligent Microgrids—Part II: Power Quality, Energy Storage, and AC/DC Microgrids (IEEE-2013)
15. Modeling, Analysis, and Design of Stationary-Reference-Frame Droop-Controlled Parallel Three-Phase Voltage Source Inverters (IEEE-2013)



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16. An Islanding Microgrid Power Sharing Approach Using Enhanced Virtual Impedance Control Scheme(IEEE-2013)
17. A Twofold Daubechies-Wavelet-Based Module for Fault Detection and Voltage Regulation in SEIGs for Distributed Wind Power Generation(IEEE-2013)
18. Optimal Protection Coordination for Microgrids With Grid-Connected and Islanded Capability(IEEE-2013)
19. Assessment and Optimization of the Transient Response of Proportional-Resonant Current Controllers for Distributed Power Generation Systems (IEEE-2013)
20. Compact Integrated Energy Systems for Distributed Generation (IEEE-2013)
21. Design of High-Performance Stand-Alone and Grid-Connected Inverter for Distributed Generation Applications (IEEE-2013)
22. Multiple Distributed Generator Placement in Primary Distribution Networks for Loss Reduction(IEEE-2013)
23. A Grid Synchronization Method for Droop-Controlled Distributed Energy Resource Converters(IEEE-2013)
24. Secondary Control for Voltage Quality Enhancement in Microgrids (IEEE-2012)
25. Robust Line-Voltage Sensorless Control and Synchronization of *LCL*-Filtered Distributed Generation inverters for High Power Quality Grid Connection(IEEE-2012)
26. Secondary Control Scheme for Voltage Unbalance Compensation in an Islanded Droop-Controlled Microgrid(IEEE-2012)
27. Automatic Generation Control Structure for Smart Power Grids(IEEE-2012)
28. Control of Power Converters in AC Microgrids(IEEE-2012)
29. Control of a Multiple Source Microgrid With Built-in Islanding Detection and Current Limiting(IEEE-2012)
30. Transition From Islanded to Grid-Connected Mode of Microgrids With Voltage-Based Droop Control(IEEE-2012)
31. Active Synchronizing Control of a Microgrid(IEEE-2011)



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32. Fault Ride-Through of a DFIG Wind Turbine Using a Dynamic Voltage Restorer During Symmetrical and Asymmetrical Grid Faults(IEEE-2011)
33. Active Load Control in Islanded Microgrids Based on the Grid Voltage(IEEE-2011)
34. Enhanced Power Quality Control Strategy for Single-Phase Inverters in Distributed Generation Systems(IEEE-2011)
35. Control for Grid-Connected and Intentional Islanding Operations of Distributed Power Generation(IEEE-2011)
36. A Hybrid AC/DC Microgrid and Its Coordination Control(IEEE-2011)
37. A New Method for Islanding Detection of Inverter-Based Distributed Generation Using DC-Link Voltage Control(IEEE-2011)
38. Grid Interconnection of Renewable Energy Sources at the Distribution Level With Power Quality Improvement Features (IEEE-2011)
39. Power-Management Strategies for a Grid-Connected PV-FC Hybrid System(IEEE-2010)
40. Potential-Function Based Control of a Microgrid in Islanded and Grid-Connected Modes(IEEE-2010)



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Keywords: DVR, STATCOM, TCR, UPFC, UPQC

1. A Combination of Shunt Hybrid Power Filter and Thyristor-Controlled Reactor for Power Quality (IEEE-2014)
2. A Transformerless Active Voltage Quality Regulator With the Parasitic Boost Circuit(IEEE-2014)
3. Voltage Support Control Strategies for Static Synchronous Compensators Under Unbalanced Voltage Sags (IEEE-2014)
4. An Add-On Self-Tuning Control System for a UPFC Application (IEEE-2014)
5. Control of Reduced Rating Dynamic Voltage Restorer with Battery Energy Storage System (IEEE-2013)
6. A Modified Three-Phase Four-Wire UPQC Topology With Reduced DC-Link Voltage Rating (IEEE-2013)
7. DC Voltage Controller for Asymmetric-Twin-Converter-Topology-Based High-Power STATCOM (IEEE-2013)
8. Optimization of Switching Losses and Capacitor Voltage Ripple Using Model Predictive Control of a Cascaded H-Bridge Multilevel StatCom (IEEE-2013)
9. Harmonic State-Space Model of a Controlled TCR (IEEE-2013)
10. Dynamic Stability Improvement of Four Parallel-Operated PMSG-Based Offshore Wind Turbine Generators Fed to a Power System Using a STATCOM (IEEE-2013)
11. “SRF Theory Revisited” to Control Self-Supported Dynamic Voltage Restorer (DVR) for Unbalanced and Nonlinear Loads (IEEE-2013)
12. Enhancement of PV Penetration With DSTATCOM in Taipower Distribution System (IEEE-2013)
13. Fault Current Interruption by the Dynamic Voltage Restorer (IEEE-2013)



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Keywords: PV, WIND, FUEL CELL

1. High-Voltage Gain Boost Converter Based on Three-State Commutation Cell for Battery Charging Using PV Panels in a Single Conversion Stage (IEEE-2014)
2. Dynamic Modeling and Control of Interleaved Flyback Module-Integrated Converter for PV Power Applications (IEEE-2014)
3. A Fuel Cell Power Conditioning System With Low-Frequency Ripple-Free Input Current Using a Control-Oriented Power Pulsation Decoupling Strategy (IEEE-2014)
4. Swinging Bus Technique for Ripple Current Elimination in Fuel Cell Power Conversion (IEEE-2014)
5. Direct Power Control of Doubly Fed Induction Generator Under Distorted Grid Voltage (IEEE-2014)
6. Doubly Fed Induction Machine Drive Hardware Laboratory for Distance Learning Education (IEEE-2014)
7. The Optimized-String Dynamic Photovoltaic Array (IEEE-2014)
8. A Comparative Study of Energy Management Schemes for a Fuel-Cell Hybrid Emergency Power System of More-Electric Aircraft (IEEE2014)
9. Power Flow Control and Stability Improvement of Connecting an Offshore Wind Farm to a One-Machine Infinite-Bus System Using a Static Synchronous Series Compensator (IEEE-2013)
10. Dynamic Stability Improvement of Four Parallel-Operated PMSG-Based Offshore Wind Turbine Generators Fed to a Power System Using a STATCOM (IEEE-2013)
11. Utilizing DFIG-Based Wind Farms for Damping Subsynchronous Resonance in Nearby Turbine-Generators (IEEE-2013)
12. One-Cycle-Controlled Single-Stage Single-Phase Voltage-Sensorless Grid-Connected PV System (IEEE-2013)
13. Application of Electrical Variable Transmission in Wind Power Generation System (IEEE-2013)