POWER ELECTRONICS & POWER SYSTEM TITLE LIST

POWER ELECTRONICS

SOLAR ENERGY

2. A High-Efficiency Single-Phase T-Type BCM Micro inverter.
3. High-Efficiency and High-Density Single-Phase Dual-Mode Cascaded Buck–Boost Multilevel Transformer less PV Inverter.
4. DC Decoupling-Based Three-Phase Three Level Transformer less PV Inverter Topology for Minimization of Leakage Current.
6. A Novel Three-Phase Transformer less H-8 Topology With Reduced Leakage Current for Grid-Tied Solar PV Applications.
7. High Step-Up Transformer less Inverter for AC Module Applications With Active Power Decoupling.
8. Transformer less Z-Source Four-Leg PV Inverter With Leakage Current Reduction.
11. An Improved H5 Topology With Low Common Mode Current for Transformer less PV Grid-Connected Inverter.
12. Hybrid UP-PWM Scheme for HERIC Inverter to Improve Power Quality and Efficiency.
15. Transformer less Hybrid Converter With AC and DC Outputs and Reduced Leakage Current.
16. Leakage Current Reduction of Three-Phase Z-Source Three-Level Four Leg Inverter for Transformer less PV System.
19. Photovoltaic AC Module Based on a Cuk Converter With a Switched-Inductor Structure.
21. Hybrid Control Scheme for Photovoltaic Micro inverter With Adaptive Inductor.
22. Simultaneous Common-Mode Resonance Circulating Current and Leakage Current Suppression for Transformer less Three-Level T-Type PV Inverter System.

WIND ENERGY

27. Parallel Operation of Unity Power Factor Rectifier for PMSG Wind Turbine System.

HYBRID POWERSYSTEM

32. A Three-Port Converter Based Distributed DC Grid Connected PV System With Autonomous Output Voltage Sharing Control.
33. A Decentralized Control Architecture Applied to DC Nano grid Clusters for Rural Electrification in Developing Regions.
34. A Bidirectional High-Efficiency Transformer less Converter With Common-Mode Decoupling for the Interconnection of AC and DC Grids.
35. Power-Based Droop Control in DC Micro grids Enabling Seamless Disconnection From Upstream Grids.
37. High-Efficiency Bidirectional Buck–Boost Converter for Photovoltaic and Energy Storage Systems in a Smart Grid.
40. Model Predictive Control of Bidirectional DC-DC Converters and AC/DC Interlinking Converters – A New Control Method for PV-Wind-Battery Micro grids.
41. Adaptive Active Power Sharing Techniques for DC and AC Voltage Control in a Hybrid DC/AC Micro grid.
42. Control of Energy Storage System Integrating Electrochemical Batteries and Super capacitors for Grid-Connected Applications.
43. A High-Efficiency Active-Boost-Rectifier-Based Converter With a Novel Double-Pulse Duty Cycle Modulation for PV to DC Micro grid Applications.
44. Three-Step Switching Frequency Selection Criteria for Symmetrical CLLC-Type DC Transformer in Hybrid AC/DC Micro grid.
45. Hardware Decoupling and Autonomous Control of Series-Resonance-Based Three-Port Converters in DC Micro grids
47. A Hybrid Photovoltaic-Fuel Cell for Grid Integration With Jaya Based Maximum Power Point Tracking.

**WIRELESS POWER TRANSFER**

50. Design and Control of Inductive Power Transfer System for Electric Vehicles Considering Wide Variation of Output Voltage and Coupling Coefficient.
52. Reconfigurable Intermediate Resonant Circuit Based WPT System With Load-Independent Constant Output Current and Voltage for Charging Battery.
54. Cost-Effective and Compact Multi-string LED Driver Based on a Three-Coil Wireless Power Transfer System.

**ELECTRIC VEHICLE APPLICATIONS**

56. Integrated PV Charging of EV Fleet Based on Energy Prices, V2G, and Offer of Reserves.
57. Cost Reduction for an EV Charging Station Integrated With Battery Energy Storage and PV Generation.
60. Imbalanced Load Regulation Based on Virtual Resistance of A Three-Phase Four-Wire Inverter for EV Vehicle-to-Home Applications.
61. A Five-Switch Bridge Based Reconfigurable LLC Converter for Deeply Depleted PEV Charging Applications.
62. Multi-Objective Reconfigurable Three-Phase Off-Board Charger for EV.

**INVERTERS AND MULTILEVEL INVERTERS**

64. Selective Harmonic Mitigation Based Self-Elimination of Triplen Harmonics for Single-Phase Five-Level Inverters.
65. Grid-Current Control of a Differential Boost Inverter With Hidden LCL Filters.
67. A Sinusoidal Pulse width Modulation (SPWM) Technique for Capacitor Voltage Balancing of a Nested T-Type Four-Level Inverter.
70. Advanced Single-Phase Nine-Level Converter for the Integration of Multi terminal DC Supplies.
71. Compact Switched Capacitor Multilevel Inverter (CSCMLI) with Self-Voltage Balancing and Boosting Ability.
73. A New Non isolated Quasi-Z-Source Inverter With High Voltage Gain.
74. A Boost-Type Nine-Level Switched Capacitor Inverter.
75. Single-Stage Variable-Turns-Ratio High-Frequency Link Grid-Connected Inverter.
76. A Self-Balancing Five-Level Boosting Inverter With Reduced Components.
77. A Hybrid 7-Level Inverter Using Low-Voltage Devices and Operation With Single DC-Link.
79. Dual-T-Type Seven-Level Boost Active-Neutral-Point-Clamped Inverter.
80. Switched-Capacitor-Based Quadruple-Boost Nine-Level Inverter.
81. Seven-level inverter with switched capacitors.

**MOTOR APPLICATIONS**

82. A Single-Stage Sensor less Control of a PV-Based Bore-Well Submersible BLDC Motor.
83. Advanced Speed Control for a Five-Leg Inverter Driving a Dual-Induction Motor System.
84. A Commutation Torque Ripple Suppression Strategy for Brushless DC Motor Based on Diode-Assisted Buck–Boost Inverter.
85. Reduced-Sensor-Based PV Array-Fed Direct Torque Control Induction Motor Drive for Water Pumping.
86. Single-Current-Sensor Control for PMSM Driven by Quasi-Z-Source Inverter.
87. Design of Speed Control and Reduction of Torque Ripple Factor in BLDC Motor Using Spider Based Controller.
89. A Standalone BLDC Based Solar Air Cooler with MPP Tracking for Improved Efficiency.

**LED APPLICATIONS**

91. AC–DC LED Driver With an Additional Active Rectifier and a Unidirectional Auxiliary Circuit for AC Power Ripple Isolation.
92. A PFC Single-Coupled-Inductor Multiple-Output LED Driver Without Electrolytic Capacitor.
93. A Bridgeless Electrolytic Capacitor-Free LED Driver Based on Series Resonant Converter With Constant Frequency Control.
96. CONVERTERS
100. Non isolated High-Step-up DC–DC Converter With Minimum Switch Voltage Stress.
102. Quadratic Boost DC–DC Converter With High Voltage Gain and Reduced Voltage Stresses.
104. Multitrack Power Factor Correction Architecture.
106. Low Common Mode Noise Half-Bridge LLC DC–DC Converter With an Asymmetric Center Tapped Rectifier.
107. DC–DC Boost Converter With a Wide Input Range and High Voltage Gain for Fuel Cell Vehicles.
109. Switched Tank Converters.
110. A Negative-Output High Quadratic Conversion Ratio DC–DC Converter With Dual Working Modes.
111. Fly back PFC With a Series-Pass Module in Cascode Structure for Input Current Shaping.
112. An Isolated Power Factor Corrected Power Supply Utilizing the Transformer Leakage Inductance.
113. Interleaved High Step-Up Converter With Coupled Inductors.
115. A Novel High Voltage Gain Non coupled Inductor SEPIC Converter.
119. A Family of Cuk, Zeta, and SEPIC Based Soft-Switching DC–DC Converters.
120. A Power Quality Improved EV Charger with Bridgeless Cuk Converter.
121. A Cuk Dual Resonance Core Based Dickson Resonant Switched-Capacitor Converter with Wide Conversion Ratio Range.
122. Operation of a Bidirectional Series-Resonant Converter With Minimized Tank Current and Wide ZVS Range.
130. A Multiple Improved Notch Filter-Based Control for a Single-Stage PV System Tied to a Weak Grid.
132. Active Cross-Correlation Anti-Islanding Scheme for PV Module-Integrated Converters in the Prospect of High Penetration Levels and Weak Grid Conditions.
133. Multifunctional Hybrid Structure of SVC and Capacitive Grid-Connected Inverter (SVC//CGCI) for Active Power Injection and Non active Power Compensation.
134. Power Quality Improvement and PV Power Injection by DSTATCOM With Variable DC Link Voltage Control from RSC-MLC.
135. Enhancement of Solar Farm Connectivity With Smart PV Inverter PV-STATCOM.
136. GI-Based Control Scheme for Single-Stage Grid Interfaced SECS for Power Quality Improvement.
138. Protection of Sensitive Loads Using Sliding Mode Controlled Three-Phase DVR With Adaptive Notch Filter.
139. Power Flow and Stability Analyses of a Multifunctional Distributed Generation System Integrating a Photovoltaic System With Unified Power Quality Conditioner.
141. Robust Repetitive Control Design for a Three-Phase Four Wire Shunt Active Power Filter.
146. Power Flow Control of Interconnected AC-DC Micro grids in Grid-Connected Hybrid Micro grids Using Modified UIPC.
147. Coordination control of positive and negative sequence voltages of cascaded H-bridge STATCOM operating under imbalanced grid Voltage.
148. An assessment of a Square-Wave Series Voltage Compensator increasing Power Quality on industrial electronic loads compensating voltage sag and swell.