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1	A Common Capacitor Based Three Level STATCOM and Design of DFIG Converter for a Zero-Voltage Fault Ride-Through Capability	**IEEE**
2	A Lyapunov-Function Based Controller for 3-Phase Shunt Active Power Filter and Performance Assessment Considering Different System Scenarios	**IEEE**
3	A Model Predictive Control Method for Hybrid Energy Storage Systems	**CSEE**
4	A Novel Unified Controller for Grid-Connected and Islanded Operation of PV-Fed Single-Stage Inverter	**IEEE**
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8	An Efficient Fuzzy-Logic Based Variable-Step Incremental Conductance MPPT Method for Grid-Connected PV Systems	**IEEE**
9	An Enhanced EPP-MPPT Algorithm With Modified Control Technique in Solar-Based Inverter Applications: Analysis and Experimentation	**IEEE**

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10	An Improved Deadbeat Control Strategy Based on Repetitive Prediction Against Grid Frequency Fluctuation for Active Power Filter	**IEEE**
11	An MPC Based Algorithm for a Multipurpose Grid Integrated Solar PV System With Enhanced Power Quality and PCC Voltage Assist	**IEEE**
12	An Uninterruptable PV Array-Battery Based System Operating in Different Power Modes with Enhanced Power Quality	**IEEE**
13	Analysis and Design of Hybrid Harmonic Suppression Scheme for VSG Considering Nonlinear Loads and Distorted Grid	**IEEE**
14	Analysis of Fractional Order Sliding Mode Control in a D-STATCOM Integrated Power Distribution System	**IEEE**
15	Assessment and Mitigation of Dynamic Instabilities in Single-Stage Grid-Connected Photovoltaic Systems With Reduced DC-Link Capacitance	**IEEE**
16	Bidirectional Harmonic Current Control of Brushless Doubly Fed Motor Drive System Based on a Fractional Unidirectional Converter Under a Weak Grid	**IEEE**
17	Control of a Three-Phase Power Converter Connected to Unbalanced Power Grid in a Non-Cartesian Oblique Frame	**IEEE**

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19	Control Strategy Research of D-STATCOM Using Active Disturbance Rejection Control Based on Total Disturbance Error Compensation	**IEEE**
20	DC-Link Voltage Research of Photovoltaic Grid-Connected Inverter Using Improved Active Disturbance Rejection Control	**IEEE**
21	Development of Control Techniques Using Modified Fuzzy Based SAPF for Power Quality Enhancement	**IEEE**
22	Effect of Various Incremental Conductance MPPT Methods on the Charging of Battery Load Feed by Solar Panel	**IEEE**
23	Enhanced Power Quality PV-Inverter with Leakage Current Suppression for Three-Phase SECS	**IEEE**
24	Fractional Order Notch Filter for Grid-Connected Solar PV System with Power Quality Improvement	**IEEE**
25	Fuzzy Logic Control for Solar PV Fed Modular Multilevel Inverter Towards Marine Water Pumping Applications	**IEEE**
26	Grid-Forming Control for Solar PV Systems with Power Reserves	**IEEE**
27	Harmonic Voltage Control in Distributed Generation Systems Using Optimal Switching Vector Strategy	**IEEE**
28	High Order Disturbance Observer Based PI-PI Control System With Tracking Anti-Windup Technique for Improvement of Transient Performance of PMSM	**IEEE**

29	Hybrid Wind/PV/Battery Energy Management-Based Intelligent Non-Integer Control for Smart DC-Microgrid of Smart University	**IEEE**
30	Impacts of Grid Voltage Harmonics Amplitude and Phase Angle Values on Power Converters in Distribution Networks	**IEEE**
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33	Maximum Power Point Tracking for Wind Turbine Using Integrated Generator-Rectifier Systems	**IEEE**
34	Modeling and Coordinated Control Design for Brushless Doubly-Fed Induction Generator-Based Wind Turbine to Withstand Grid Voltage Unbalance	**IEEE**
35	Multifunctional Control of Wind-Turbine Based Nano-Grid Connected to Distorted Utility-Grid	**IEEE**
36	Multi-Mode Operation and Control of a Z-Source Virtual Synchronous Generator in PV Systems	**IEEE**
37	Parameter Adjustment for the Droop Control Operating a Discharge PEC in PMG-Based WECSs With Generator-Charged Battery Units	**IEEE**
38	Partial Power Conversion and High Voltage Ride-Through Scheme for a PV-Battery Based Multiport Multi-Bus Power Router	**IEEE**
39	Peak Current Detection Starting Based Position Sensorless Control of BLDC Motor Drive for PV Array Fed Irrigation Pump	**IEEE**
40	Power and Current Limiting Control of Wind Turbines Based on PMSG Under Unbalanced Grid Voltage	**IEEE**

41	Power Quality Enhancement in Sensitive Local Distribution Grid Using Interval Type-II Fuzzy Logic Controlled DSTATCOM	**IEEE**
42	Robust Control for Islanded and Seamless Mode Switching of Wind-PV-Grid Tied Generation System	**IEEE**
43	Small Signal Stability Analysis Oriented Design of Hybrid Anti-Islanding Protection Technique Based on Active Disturbance Injection	**IEEE**
44	Solar Powered Unmanned Aerial Vehicle With Active Output Filter Under Non-Linear Load Conditions	**IEEE**
45	Stability Evaluation of AC/DC Hybrid Microgrids Considering Bidirectional Power Flow Through the Interlinking Converters	**IEEE**
46	Symmetrical Pole Placement Method-Based Unity Proportional Gain Resonant and Gain Scheduled Proportional (PR-P) Controller With Harmonic Compensator for Single Phase Grid-Connected PV Inverters	**IEEE**
47	System Modeling and Stability Analysis of Single-Phase Transformerless UPQC Integrated Input Grid Voltage Regulation	**IEEE**
48	Vienna Rectifier Fed Squirrel Cage Induction Generator based Stand-alone Wind Energy Conversion System	**IEEE**
49	Weak Grid Integration of a Single-Stage Solar Energy Conversion System With Power Quality Improvement Features Under Varied Operating Conditions	**IEEE**
50	Z-source converter integrated dc electric spring for power quality improvement in dc microgrid	**ELSEVIER**

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1	An Improved Current-Limiting Strategy for Shunt Active Power Filter (SAPF) Using Particle Swarm Optimization (PSO)	**IEEE**
2	Transformerless Z-Source Four-Leg PV Inverter with Leakage Current Reduction	**IEEE**
3	Ensuring Power Quality and Stability in Industrial and Medium Voltage Public Grids	**IEEE**
4	A BL-CSC Converter Fed BLDC Motor Drive with Power Factor Correction	**IEEE**
5	Dual-Buck AC–AC Converter with Inverting and Non-Inverting Operations	**IEEE**
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2	A Low Cost Speed Estimation Technique for Closed Loop Control of BLDC Motor Drive	IEEE
3	A Synchronous Generator Based Diesel-PV Hybrid Micro-grid with Power Quality Controller	IEEE
4	A Synchronous Generator Based Diesel-PV Hybrid Micro-grid with Power Quality Controller	IEEE
5	An Intelligent Fuzzy Sliding Mode Controller for a BLDC Motor	IEEE
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7	Cascaded Multilevel Inverter Based Electric Spring for Smart Grid Applications	IEEE
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10	Design of PID-Fuzzy for Speed Control of Brushless DC Motor in Dynamic Electric Vehicle to Improve Steady-State Performance	IEEE
11	Direct Torque Control of PM BLDC Motor Using Fuzzy Controllers	IEEE
12	Double Closed Loop Control for BLDC based on whole Fuzzy Controller	IEEE
13	Dual-Bridge LLC Resonant Converter With Fixed-Frequency PWM Control for Wide Input Applications	IEEE
14	A Two Degrees of Freedom Resonant Control Scheme for Voltage Sag Compensation in Dynamic Voltage Restorers	IEEE
15	High Performance Non-Salient Sensorless BLDC Motor Control Strategy from Standstill to High Speed	IEEE
16	Indirect Speed Estimation of High Speed Brushless DC Motor Drive Using Fuzzy Logic Current Compensator	IEEE

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18	Nine-level Asymmetrical Single Phase Multilevel Inverter Topology with Low switching frequency and Reduce device counts	IEEE
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20	PWAM Controlled Quasi-Z Source Motor Drive	IEEE
21	Simulation and Control of Solar Wind Hybrid Renewable Power System	IEEE
22	Improved Dynamic Performance of Shunt Active Power Filter Using Particle Swarm Optimization	IEEE
23	Particle Swarm Optimization Based Shunt Active Harmonic Filter for Harmonic Compensation	IEEE
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27	A Filterless Single-Phase AC-AC Converter Based on Coupled Inductors with Safe-Commutation Strategy and Continuous Input Current	IEEE
28	Novel Back EMF Zero Difference Point Detection Based Sensorless Technique for BLDC Motor	IEEE
29	A Novel DVR-ESS-embedded wind energy conversion system	IEEE
30	Dynamic Voltage Conditioner, a New Concept for Smart Low-Voltage Distribution System	IEEE
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2	A Novel Multilevel Multi-Output Bidirectional Active Buck PFC Rectifier	IEEE
3	Optimal Pulse width Modulation of Medium-Voltage Modular Multilevel Converter	IEEE
4	Novel Family of Single-Phase Modified Impedance-Source Buck-Boost Multilevel Inverters with Reduced Switch Count	IEEE
5	Adaptive Neuro Fuzzy Inference System Least Mean Square Based Control Algorithm for DSTATCOM	IEEE
6	An Islanding Detection Method for Inverter-Based Distributed Generators Based on the Reactive Power Disturbance	IEEE
7	Quasi-Z-Source Inverter With a T-Type Converter in Normal and Failure Mode	IEEE
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13	Design and Implementation of a Novel Multilevel DC-AC Inverter	**IEEE**
14	A New Cascaded Switched-Capacitor Multilevel Inverter Based on Improved Series-Parallel Conversion with Less Number of Components	**IEEE**
15	Circulating current derivation and comprehensive compensation of cascaded STATCOM under asymmetrical voltage conditions	**IET**
16	Design and implementation of a novel three-phase cascaded half-bridge inverter	**IET**
17	Grid connected three-phase multiple-pole multilevel unity power factor rectifier with reduce components count	**IET**
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20	An Enhanced Single Phase Step-Up Five-Level Inverter	IEEE
21	A Hybrid-STATCOM with Wide Compensation Range and Low DC-Link Voltage	IEEE
22	A Capacitor Voltage-Balancing Method for Nested Neutral Point Clamped (NNPC) Inverter	IEEE
23	T-type direct AC/AC converter structure	IET
24	Modular Multilevel Converter Circulating Current Reduction Using Model Predictive Control	IEEE
25	Parallel inductor multilevel current source inverter with energy – recovery scheme for inductor currents balancing	IET
26	Open-Circuit Fault-Tolerant Control for Outer Switches of Three-Level Rectifiers in Wind Turbine Systems	IEEE
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28	Load Model for Medium Voltage Cascaded H-Bridge Multi-Level Inverter Drive Systems	IEEE
29	Development and Comparison of an Improved Incremental Conductance Algorithm for Tracking the MPP of a Solar PV Panel	IEEE
30	Impact of Switching Harmonics on Capacitor Cells Balancing in Phase-Shifted PWM Based Cascaded H-Bridge STATCOM	IEEE
31	Effect of circulating current on input line current of 12-pulse rectifier with active inter-phase reactor	IET
32	Modular Multilevel Converter-Based Bipolar High-Voltage Pulse Generator With Sensorless Capacitor Voltage Balancing Technique	IEEE
33	Power-Electronics-Based Energy Management System With Storage	IEEE
34	Modulation and Control of Transformerless UPFC	IEEE
35	A Hybrid Simulation Model for VSC HVDC	IEEE
36	Switching Control of Buck Converter Based on Energy Conservation Principle	IEEE

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37	A Three-Phase Multilevel Hybrid Switched-Capacitor PWM PFC Rectifier for High-Voltage-Gain Applications	IET
38	A dc-Side Sensorless Cascaded H-Bridge Multilevel Converter Based Photovoltaic System	IEEE
39	Phase angle calculation dynamics of type-4wind turbines in rms simulations during severe voltage dips	IET
40	A Multi-Level Converter with a Floating Bridge for Open-Ended Winding Motor Drive Applications	IEEE
41	Model Predictive Control of Quasi-Z-Source Four-Leg Inverter	IEEE
42	Using Multiple Reference Frame Theory for Considering Harmonics in Average-Value Modeling of Diode Rectifiers	IEEE
43	Cascaded Dual Model Predictive Control of an Active Front-End Rectifier	IEEE
44	Simple Time Averaging Current Quality Evaluation of a Single-Phase Multilevel PWM Inverter	IEEE
45	Nonlinear Control of Single-Phase PWM Rectifiers With Inherent Current-Limiting Capability	IET

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47	An Adaptive SPWM Technique for Cascaded Multilevel Converters with Time-Variant DC Sources	IEEE
48	Model-Based Control for a Three-Phase Shunt Active Power Filter	IEEE
49	Design of a multi-level inverter with reactive power control ability for connecting PV cells to the grid	IEEE
50	DSTATCOM supported induction generator for improving power quality	IET
51	Improved equal current approach for reference current generation in shunt applications under unbalanced and distorted source and load conditions	IET
52	A Hybrid-STATCOM With Wide Compensation Range and Low DC-Link Voltage	IEEE
53	Design of External Inductor for Improving Performance of Voltage-Controlled DSTATCOM	IEEE
54	Full-Bridge Reactive Power Compensator With Minimized-Equipped Capacitor and Its Application to Static Var Compensator	IEEE

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55	A New Cascaded Switched-Capacitor Multilevel Inverter Based on Improved Series–Parallel Conversion With Less Number of Components	IEEE
56	Efficient Implicit Model Predictive Control of Three Phase Inverter with an Output LC Filter	IEEE
57	Single-stage Three-phase Differential-mode Buck-Boost Inverters with Continuous Input Current for PV Applications	IEEE
58	Soft-start control strategy for the three phase grid-connected inverter with LCL filter	IEEE
59	High-Gain Single-Stage Boosting Inverter For Photovoltaic Applications	IET
60	Multilevel Inverter Topologies With Reduced Device Count: A Review	IEEE
61	Real time implementation of unity power factor correction converter based on fuzzy logic	IEEE
62	Power Factor Correction in BLDC motor Drives Using DC-DC Converters	IEEE
63	Transformerless Single-Phase Universal Active Filter With UPS Features and Reduced Number of Electronic Power Switches	IEEE

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64	PI tuning of Shunt Active Filter using GA and PSO algorithm	IEEE
65	PSO – PI Based DC Link Voltage Control Technique for Shunt Hybrid Active Power Filter	IEEE
66	Artificial Neural Network based Three Phase Shunt Active Power Filter	IEEE
67	Cascaded open end winding transformer based DVR	IEEE
68	Brushless DC motor drive with power factor regulation using Landsman converter	IET
69	Comparative Analysis of 6, 12 and 48 Pulse T-STATCOM	ieee
70	A Superconducting Magnetic Energy Storage- Emulator/Battery Supported Dynamic Voltage Restorer	IEEE
71	Compensation of Voltage Distribunces In SMIB System Using ANN Based DPFC Controller	IEEE
72	Commutation Torque Ripple Reduction in BLDC Motor Using Modified SEPIC Converter and Three-level NPC Inverter	IEEE
73	Novel Cascaded Switched-Diode Multilevel Inverter for Renewable Energy Integration	IEEE
74	A Highly Reliable Single-Phase High-Frequency Isolated Double Step-Down AC-AC Converter with Both Non-Inverting and Inverting Operations	IEEE

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75	Dynamic Voltage Restorer Using Switching Cell Structured Multilevel AC-AC Converter	IEEE
76	Time-Varying and Constant Switching Frequency Based Sliding Mode Control Methods for Transformerless DVR Employing Half-Bridge VSI	IEEE
77	Evaluation of DVR Capability Enhancement - Zero Active Power Tracking Technique	IEEE
78	Sensitive Load Voltage Compensation Performed by a Suitable Control Method	IEEE

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2	A High Step-Up Converter with Voltage-Multiplier Modules for Sustainable Energy Applications	IEEE
3	A High Step-Up DC to DC Converter Under Alternating Phase Shift Control for Fuel Cell Power System	IEEE
4	High-Efficiency MOSFET Transformerless Inverter for Non-isolated Micro inverter Applications	IEEE
5	A Multi-Input Bridgeless Resonant AC-DC Converter for Electromagnetic Energy Harvesting	IEEE
6	A Novel Control Method for Transformerless H-Bridge Cascaded STATCOM with Star Configuration	IEEE
7	A Novel High Step-up DC/DC Converter Based on Integrating Coupled Inductor and Switched-Capacitor Techniques for Renewable Energy Applications	IEEE

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8	A Function Based Maximum Power Point Tracking Method for Photovoltaic Systems	IEEE
9	A Three-Phase Grid Tied SPV System With Adaptive DC Link Voltage for CPI Voltage Variations	IEEE
10	Design of External Inductor for Improving Performance of Voltage Controlled DSTATCOM	IEEE
11	Grid-Connected PV Array with Supercapacitor Energy Storage System for Fault Ride Through	IEEE
12	Grid-Connected PV-Wind-Battery based Multi-Input Transformer Coupled Bidirectional DC-DC Converter for household Applications	IEEE
13	MPPT with Single DC-DC Converter and Inverter for Grid Connected Hybrid Wind-Driven PMSG-PV System	IEEE
14	Application of Neural Networks in Power Quality	IEEE
15	Neuro Fuzzy based controller for Power Quality Improvement	IEEE

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16	Single- and Two-Stage Inverter based grid connected Photovoltaic Power Plants with Tide-Through under Grid Faults	IEEE
17	Power Quality Improvement of PMSG based DG set feeding Three-phase loads	IEEE
18	A Five Level Cascaded H-Bridge Multilevel STATCOM	IEEE
19	MPPT with Single DC–DC Converter and Inverter for Grid-Connected Hybrid Wind-Driven PMSG–PV System	IEEE
20	Versatile Unified Power Quality Conditioner Applied to Three-Phase Four-Wire Distribution Systems Using a Dual Control Strategy	IEEE
21	A Novel Five-Level Voltage Source Inverter With Sinusoidal Pulse Width Modulator for Medium-Voltage Applications	IEEE
22	Development and Comparison of an Improved Incremental Conductance Algorithm for Tracking the MPP of a Solar PV Panel	IEEE
23	A Single DC Source Cascaded Seven-Level Inverter Integrating Switched Capacitor Techniques	IEEE

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24	Improving the Performance of Cascaded H-bridge based Interline Dynamic Voltage Restorer	IEEE
25	Integrated Photovoltaic and Dynamic Voltage Restorer System Configuration	IEEE
26	Multilevel Cascaded-Type Dynamic Voltage Restorer with Fault Current Limiting Function	IEEE
27	Dynamic Voltage Restorer Based on Three-Phase Inverters Cascaded Through an Open-End Winding Transformer	IEEE
28	Design Considerations of a Fault Current Limiting Dynamic Voltage Restorer (FCL-DVR)	IEEE

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3	Pulse width Modulation of Z-Source Inverters With Minimum Inductor Current Ripple	IEEE
4	Improving the Dynamics of Virtual-Flux-Based Control of Three-Phase Active Rectifiers	IEEE
5	Sensorless Induction Motor Drive Using Indirect Vector Controller and Sliding-Mode Observer for Electric Vehicles	IEEE
6	Back-Propagation Control Algorithm for Power Quality Improvement Using DSTATCOM	IEEE
7	A Zero-Voltage Switching Three-Phase Inverter	IEEE
8	Control of Reduced-Rating Dynamic Voltage Restorer With a Battery Energy Storage System	IEEE
9	A Combination of Shunt Hybrid Power Filter and Thyristor-Controlled Reactor for Power Quality	IEEE

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11	LCL Filter Design and Performance Analysis for Grid-Interconnected Systems	IEEE
12	An Inductively Active Filtering Method for Power-Quality Improvement of Distribution Networks With Nonlinear Loads	IEEE
13	A Bidirectional-Switch-Based Wide-Input Range High-Efficiency Isolated Resonant Converter for Photovoltaic Applications	IEEE
14	Analysis and Implementation of an Improved Flyback Inverter for Photovoltaic AC Module Applications	IEEE
15	Speed Sensorless Vector Controlled Induction Motor Drive Using Single Current Sensor	IEEE
16	A Novel Design and Optimization Method of an *LCL* Filter for a Shunt Active Power Filter	IEEE
17	An Active Harmonic Filter Based on One-Cycle Control	IEEE

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19	Modeling and Design of Voltage Support Control Schemes for Three-Phase Inverters Operating Under Unbalanced Grid Conditions	IEEE
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27	Implementation of Adaptive Filter in Distribution Static Compensator	IEEE
28	A Comparison of Soft-Switched DC-to-DC Converters for Electrolyzer Application	IEEE
29	Adaptive fuzzy controller based MPPT for photovoltaic systems	IEEE
30	Design of Fuzzy Logic Based Maximum Power Point Tracking Controller for Solar Array for Cloudy Weather Conditions.	IEEE
31	Dynamic Behavior of DFIG Wind Turbine Under Grid Fault Conditions	IEEE
32	Fuzzy-Logic-Controller-Based SEPIC Converter for Maximum Power Point Tracking	IEEE
33	Performance Improvement of Direct Power Control of PWM Rectifier With Simple Calculation	IEEE

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36	Improved Active Power Filter Performance for Renewable Power Generation Systems	IEEE
37	Micro Wind Power Generator with Battery Energy Storage for Critical Load	IEEE
38	Power Conditioning in Distribution Systems Using ANN Controlled Shunt Hybrid Active Power Filter	IEEE
39	Power Quality Improvement Using UPQC Integrated with Distributed Generation Network	IEEE