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| **S.No** | **Project Name** | **Year** |
| 1 | Power Quality Improvement by Active Shunt Filter with Hysteresis Current Controller | 2019 |
| 2 | Symmetrical and Asymmetrical Reduced Device Multilevel Inverter Topology | 2019 |
| 3 | A Discrete-Time Control Method for Fast Transient Voltage-Sag Compensation in DVR | 2019 |
| 4 | A Discrete-Time Control Method for Fast Transient Voltage-Sag Compensation in DVR | 2019 |
| 5 | Using Four – Quadrant Chopper with Variable Speed Drive System Dc-Link to Improve the Quality of Supplied Power for Industrial Facilities | 2019 |
| 6 | Maintaining Constant Voltage at load by using Dynamic Voltage Restorer(DVR) | 2019 |
| 7 | A New Basic Unit for Symmetric and Asymmetric Cascaded Multilevel Inverters with Reduced Power Electronic Devices | 2019 |
| 8 | A Comparative study of Multilevel Inverter Typologies with Reduced switches | 2019 |
| 9 | A New Structure with New Algorithms for Cascaded Multilevel Inverters by Reducing Number of IGBTs | 2019 |
| 10 | Design and Control of 3-phase, 4-wire, 4-Leg VSC Based DSTATCOM using Synchronous Reference Frame Theory | 2019 |
| 11 | Active Harmonic Filtering Using Multilevel H-bridge Inverter Based STATCOM | 2019 |
| 12 | A Nine-Level Cascaded Multilevel Inverter with Reduced Switch Count and Lower Harmonics | 2019 |
| 13 | A Model Predictive Control for Renewable Energy Based AC Microgrids without Any PID Regulators | 2018 |
| 14 | Dynamic Power Decoupling Strategy for Three Phase PV Power Systems under Unbalanced Grid Voltages | 2018 |
| 15 | A Single-Phase Cascaded H-Bridge Multilevel Inverter with Reduced Switching Devices and Harmonics | 2018 |
| 16 | A Three-Phase, Five-Level Multilevel Inverter with Output Voltage Boost | 2018 |
| 17 | Advanced Voltage Support and Active Power Flow Control in Grid-Connected Converters Under Unbalanced Conditions | 2018 |
| 18 | An Improved Adaptive P&O Technique for Two Stage Grid Interfaced SPVECS | 2018 |
| 19 | Analysis and Simulation of Ferro resonance in Power Transformers using Simulink | 2018 |
| 20 | Application of a Three-Phase Multilevel Inverter for DTC Based Induction Motor Drive | 2018 |
| 21 | Application of Boost Converter to Increase the Speed Range of Dual-stator Winding Induction Generator in Wind Power Systems | 2018 |
| 22 | Coordinated Control of STATCOM and ULTC to Reduce Capacity of STATCOM | 2018 |
| 23 | Design of 5-level Reduced Switches Count H-bridge Multilevel Inverter | 2018 |
| 24 | PV system fuzzy logic MPPT method and PI control as a charge controller | 2018 |
| 25 | Implementation of Multilevel inverter based Dynamic voltage restorer | 2018 |
| 26 | Optimal Control Design of a Voltage Controller for Stand-Alone and Grid-Connected PV Converter | 2018 |
| 27 | Power Quality Improvement in Utility Interactive Based AC-DC Converter Using Harmonic Current Injection Technique | 2018 |
| 28 | PV-STATCOM: A New Smart Inverter for Voltage Control in Distribution Systems | 2018 |
| 29 | Single-Phase Hybrid Cascaded H-Bridge and Diode Clamped Multilevel Inverter: RL Load Case | 2018 |
| 30 | Three-phase Voltage-fed Quasi-Z-Source AC-AC Converter | 2018 |
| 31 | Application of Z-Source Sparse Matrix Converter for Microturbine Generators | 2018 |
| 32 | Application of Buck-Boost Converter for Wind Energy Control | 2017 |
| 33 | Harmonics Elimination Using Shunt Active Filter | 2017 |
| 34 | Simultaneous Microgrid Voltage and Current Harmonics Compensation Using Coordinated Control of Dual-Interfacing Converters | 2017 |
| 35 | Analysis of Load Frequency Control for Multi Area System Using PI and Fuzzy Logic Controllers | 2017 |
| 36 | Power Quality Enhancement for a Grid Connected Wind Turbine Energy System | 2017 |
| 37 | Improvement of Power Quality in the Distribution System by Placement of UPQC | 2017 |
| 38 | Dynamic dc voltage regulation of split capacitor DSTATCOM for power quality improvement | 2017 |
| 39 | Modeling of Multi-terminal VSC-based HVDC System | 2017 |
| 40 | Modelling and Simulation of Wind Turbine using PMSG | 2017 |
| 41 | A Cascaded Modular Multilevel Inverter Topology Using Novel Series Basic Units with a Reduced Number of Power Electronic Elements | 2016 |
| 42 | Reactive Power Flow Control Using Static VAR Compensator to Improve Voltage Stability in Transmission System | 2016 |
| 43 | Simulation of Dynamic Conductance based High Intensity Discharge lamp model driven by Low Frequency Square Wave electronic Ballast | 2016 |
| 44 | Speed Control of Induction Motor Drive Using Universal Bridge (MATLAB) | 2016 |
| 45 | A New Asymmetrical Single Phase 15 Level Reduced Switch Multilevel Voltage Source Inverter | 2016 |
| 46 | Wind farm stabilization using UPQC based systems | 2016 |
| 47 | Unified Power Quality Conditioner (UPQC) in Alleviation of Power Quality Issues | 2016 |
| 48 | Modeling and Simulation of Incremental Conductance Maximum Power Point Tracking (MPPT) Algorithm for Solar PV Array Using Boost Converter | 2016 |
| 49 | Mathematical Modelling of an 3 Phase Induction Motor Using MATLAB/Simulink | 2016 |
| 50 | Analysis of STATCOM, SVC and UPFC FACTS Devices for Transient Stability Improvement in Power System | 2016 |
| 51 | Coordinated Active Power Control between Shunt and Series Converters of UPQC for Distributed Generation Applications | 2016 |
| 52 | Fault Current Discrimination during Induction Motor Starting | 2016 |
| 53 | Power Quality Improvement by using Shunt Hybrid Power Filter and Thyristor Controlled Reactor | 2015 |
| 54 | Modeling and Control of DC/DC Boost Converter using K-Factor Control for MPPT of Solar PV System | 2015 |
| 55 | An Integrated Dynamic Voltage Restorer-Ultracapacitor Design for Improving Power Quality of the Distribution Grid | 2015 |
| 56 | Design of Push Pull Quasi Resonant Boost Converter for Power Factor Correction | 2015 |
| 57 | Sizing of a VRB Battery Based on Max-Min Method of Power Dispatch in a Wind-PV Hybrid System | 2015 |
| 58 | A Torque Control Strategy Of Brushless Direct Current Motor With Current Observer | 2015 |
| 59 | Fuzzy Controlled UPQC for Power Quality Enhancement in a DFIG based Grid Connected Wind Power System | 2015 |
| 60 | SSSC based SSR mitigation in hybrid system using optimized fuzzy logic controller | 2015 |
| 61 | A Grid-Connected Dual Voltage Source Inverter With Power Quality Improvement Features | 2015 |
| 62 | Three Zone Protection By Using Distance Relays in SIMULINK/MATLAB | 2015 |