S.No	IEEE 2021-2022 Power Electronics Project Titles	Domain	Year
1	An Improved Three-Stages Cascading Passivity-Based Control of Grid-Connected LCL Converter in Unbalanced Weak Grid Condition	POWER ELECTRONICS	2021
2	Study on Battery Charging Strategy of Electric Vehicles Considering Battery Capacity	POWER ELECTRONICS	2021
3	Extended Geometric Feature Extraction Process for Detecting Multiple Frequency Oscillations in KEPCO System	POWER ELECTRONICS	2021
4	Parameter Adjustment for the Droop Control Operating a Discharge PEC in PMG-Based WECSs With Generator-Charged Battery Units	POWER ELECTRONICS	2021
5	Fuzzy Logic Control for Solar PV Fed Modular Multilevel Inverter Towards Marine Water Pumping Applications	POWER ELECTRONICS	2021
6	A Comprehensive Review of Microgrid Control Mechanism and Impact Assessment for Hybrid Renewable Energy Integration	POWER ELECTRONICS	2021
7	Review of Methods to Accelerate Electromagnetic Transient Simulation of Power Systems	POWER ELECTRONICS	2021
8	Reliability of Silicon Battery Technology and Power Electronics Based Energy Conversion	POWER ELECTRONICS	2021
9	Design and Application of a Self-Powered Dual-Stage Circuit for Piezoelectric Energy Harvesting Systems	POWER ELECTRONICS	2021
10	An Active Voltage Stabilizer for a DC Microgrid System	POWER ELECTRONICS	2021
11	A Transformer-Less Voltage Equalizer for Energy Storage Cells Based on Double-Tiered Multi-Stacked Converters	POWER ELECTRONICS	2021
12	Modified Phase-Shift Scheme for Optimal Transient Response of Dual-Active-Bridge DC/DC Converters	POWER	2021

	Considering the Resistive Impact	**ELECTRONICS**	
13	**The Evolution of Faster-Than-Nyquist Signaling**	**POWER ELECTRONICS**	**2021**
14	**WBG-Based PEBB Module for High Reliability Power Converters**	**POWER ELECTRONICS**	**2021**
15	**Voltage Lift Switched Inductor Double Leg Converter With Extended Duty Ratio for DC Microgrid Application**	**POWER ELECTRONICS**	**2021**
16	**Comparative Analysis of Hybrid NPP and NPC Seven-Level Inverter With Switched-Capacitor**	**POWER ELECTRONICS**	**2021**
17	**Improved Damping Control Method for Grid-Forming Converters Using LQR and Optimally Weighted Feedback Control Loops**	**POWER ELECTRONICS**	**2021**
18	**Improved Dynamic Response of DC Microgrid Under Transient Condition Using Inertia by Virtual Generation**	**POWER ELECTRONICS**	**2021**
19	**High-Power and High-Responsivity Avalanche Photodiodes for Self-Heterodyne FMCW Lidar System Applications**	**POWER ELECTRONICS**	**2021**
20	**Robust Adaptive Beamforming Based on Low-Complexity Discrete Fourier Transform Spatial Sampling**	**POWER ELECTRONICS**	**2021**
21	**An Experimental Investigation on Output Power Enhancement With Offline Reconfiguration for Non-Uniform Aging Photovoltaic Array to Maximise Economic Benefit**	**POWER ELECTRONICS**	**2021**
22	**On the Generalization and Reliability of Single Radar-Based Human Activity Recognition**	**POWER ELECTRONICS**	**2021**
23	**Polarity Effect of Impulse Conditioning Characteristics under a Uniform Electric Field in Vacuum**	**POWER ELECTRONICS**	**2021**
24	**Space Charge Behavior of Quantum Dot-Doped Polystyrene Polymers**	**POWER ELECTRONICS**	**2021**
25	**A Method of Tuning Frequency in S-Band Continuous-Wave Magnetron**	**POWER ELECTRONICS**	**2021**
26	**MOPGO: A New Physics-Based Multi-Objective Plasma Generation Optimizer for Solving Structural Optimization**	**POWER ELECTRONICS**	**2021**

	Problems		
27	**Area and Power-Efficient Capacitively-Coupled Chopper Instrumentation Amplifiers in 28 nm CMOS for Multi-Channel Biosensing Applications**	**POWER ELECTRONICS**	**2021**
28	**Machine Learning Based Intentional Islanding Algorithm for DERs in Disaster Management**	**POWER ELECTRONICS**	**2021**
29	**A Sub-Synchronous Oscillation Suppression Strategy for Doubly Fed Wind Power Generation System**	**POWER ELECTRONICS**	**2021**
30	**Faulty Line Identification Method Based on Bayesian Optimization for Distribution Network**	**POWER ELECTRONICS**	**2021**
31	**New Four-Channel Resonant Boost DC/DC Converter**	**POWER ELECTRONICS**	**2021**
32	**An Autonomous Frequency Reconfigurable Antenna Using Slotline Open-Loop Resonators**	**POWER ELECTRONICS**	**2021**
33	**Impedance Modeling and Stability Analysis of Three-Phase Four-Leg Grid-Connected Inverter Considering Zero-Sequence**	**POWER ELECTRONICS**	**2021**
34	**Comparison of Fuzzy and ANFIS Controllers for Asymmetrical 31-Level Cascaded Inverter With Super Imposed Carrier PWM Technique**	**POWER ELECTRONICS**	**2021**
35	**Comparison of Fuzzy and ANFIS Controllers for Asymmetrical 31-Level Cascaded Inverter With Super Imposed Carrier PWM Technique**	**POWER ELECTRONICS**	**2021**
36	**Comparison of Fuzzy and ANFIS Controllers for Asymmetrical 31-Level Cascaded Inverter With Super Imposed Carrier PWM Technique**	**POWER ELECTRONICS**	**2021**
37	**Efficiency Improvement Scheme for PV Emulator Based on a Physical Equivalent PV-Cell Model**	**POWER ELECTRONICS**	**2021**
38	**Towards Lower Precision Adaptive Filters: Facts From Backward Error Analysis of RLS**	**POWER ELECTRONICS**	**2021**
39	**The Magnetic Energy Harvester With Improved Power Density Using Saturable Magnetizing Inductance Model for**	**POWER ELECTRONICS**	**2021**

	Maintenance Applications Near High Voltage Power Line		
40	**Simplex Search Method Driven Design for Transient Stability Enhancement in Wind Energy Integrated Power System Using Multi-Band PSS4C**	**POWER ELECTRONICS**	**2021**
41	**Application of Numerical Simulation for Metallized Film Capacitors Electrodes Design**	**POWER ELECTRONICS**	**2021**
42	**Enhanced Photo Sensing and Lowered Power Consumption in Concentric MIS Devices by Monitoring Outer Ring Open-Circuit Voltage With Biased Inner Gate**	**POWER ELECTRONICS**	**2021**
43	**Improvement of β-Ga2O3 MIS-SBD Interface Using Al-Reacted Interfacial Layer**	**POWER ELECTRONICS**	**2021**