2023 IEEE 3rd International Conference on Sustainable Energy and Future Electric Transportation (SEFET 2023)

Bhubaneswar, India 9-12 August 2023

Pages 1-750



IEEE Catalog Number: ISBN:

CFP23S22-POD 979-8-3503-1998-9

Copyright © 2023 by the Institute of Electrical and Electronics Engineers, Inc. All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

 IEEE Catalog Number:
 CFP23S22-POD

 ISBN (Print-On-Demand):
 979-8-3503-1998-9

 ISBN (Online):
 979-8-3503-1997-2

Additional Copies of This Publication Are Available From:

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-0400

Fax: (845) 758-2633

E-mail: curran@proceedings.com Web: www.proceedings.com













Table of Contents

S.No.	Paper ID	Paper Title	Pg
1	1	Levitation of a flat steel plate for MagLev vehicles	1
2	3	Horizontal axis wind turbine pitch actuation fault and reaching law based sliding mode controller performance analysis	6
3	6	Smooth Operation Changeover Scheme for Dual Stage BES-SPVA Grid Coupled System	12
4	7	State-of-the-art on Light-Emitting-Diode Drivers and Related Technologies	18
5	22	Low Device Count Based Power Converter for Electric Vehicle Charging Application from Grid	24
6	24	A Soft Switched Bridgeless Cuk High Power Factor Rectifier Based LEVs Charging System	29
7	30	Novel Red Bellied Malimbe Swarm Optimization Algorithm for Active Power Loss Diminution in Transmission Network	35
8	35	Analyzing the Effect of Choke Placement on Differential-Mode Supra-Harmonics in Variable Frequency Drives: New Standardization	40
9	36	Design Methodology of DC-link Filter for Adjustable Speed Drives Considering Grid Disturbances	46
10	37	Design of an Air-Based Thermal Management and Predictions of Thermal Characteristics of Lithium-ion Cell Using 1D Numerical Model	52
11	38	Fault-Tolerant Strategy against Current Sensor Failures for DTC-SVPWM based Induction Motor Drives	58
12	40	Delicate Remarks in Simultaneous Placement of Distributed Energy Generators and Reactive Power Compensators in Variable Loading Power Systems	64
13	41	Industry 5.0 And Sustainable Development in The Developing World	70
14	43	An Empirical Analysis of Electric Vehicle in Urban Transportation Market Using Deep- Learning Techniques	76
15	48	Modified Adaptive Complex Coefficient Filter based Speed Sensorless Control of SynRL Motor Drive for Electric Vehicles	81
16	49	Design and Control of Solar PV-Battery Fed Sensorless PMSM Driven Three- Wheeler	87
17	51	Design, Analysis & Performance Improvement of A Modified Asymmetrical H- Bridge Multilevel Inverter By Metaheuristic Algorithms	93
18	52	Reinforcement Learning Based Cost-Effective Smart Home Energy Management	99
19	54	Impedance Severity Index based Hybrid Islanding Detection Approach for Zonal DC Microgrids	10
20	56	Multifunctional PV-based EV System under Distorted Grid Condition using Modified-STF	11
21	58	A Hybrid Fuzzy-PI Speed Controller Based PMSM Drive for EV Application	11
22	60	Wind Energy Conversion Systems and Technologies: A Summary of the Current State of the Art	12
23	61	Adaptive Coordinated Control Technique for Intelligent Micro-grid	128











Pirect-drive Wave 134
thium Polymer 140
Li-Ion Cell for 145
DG in a Distribution 150
nique for Inverter 156
nd Grid-Forming 161
eluctance Generator 167
cation and Capacitor 173
179
rgy management 186
Wind Speed 192
in Rotating 197
duction motor drive 203
tovoltaic Based 209
Technologies and 215
ehicles 222
or Aiding Visibility to 227
Connected Rooftop 233
rage System using PLC 239
atural Ester Oils 245
agement and Power 251
Aerial Vehicles: The 256
lized Energy Trading 262
grated PLL-Less 267
tural Power Factor 274











40	112	A Full Scale Aguanonics Drin Irrigation System via DLC and HMI
49	113	A Full Scale Aquaponics Drip Irrigation System via PLC and HMI
50	115	Design for reliability of static box bed type solar dryer
51	117	Modeling and Simulation of Half Bridge LLC Resonant Converter for Wireless
		Power Transfer in Electric Vehicle Charging Application
52	120	Power Quality Disturbances diagnosis in Microgrid integrated Electric Vehicle charging stations
		Technical & Economic Feasibility Evaluation of Using Various Battery
53	126	Technologies In Stand Alone PV System For the Residential Sector In Yemen:
33	120	Case Study
		Autonomous Vehicle Trajectory Prediction on Multi-Lane Highways Using
54	129	Attention based Model
	100	A High Gain Enhanced Boost Bidirectional DC-DC Converter for Battery-
55	130	Supercapacitor applications
	124	A High Gain Transformer-Less Dual-Switched Inductor-capacitor Based DC-DC
56	131	Converter
	122	Design and Implementation of Type-III Controller in Voltage-Mode-Controlled
57	132	Inverting Buck-Boost Converter using Ltspice
58	134	Optimal BG Regulation in TIDM Patient based on Adaptive Control Algorithm
59	136	Adaptive Numerical Differential Protection for Transformer Considering CT
33	130	Saturation and HIF
60	140	A novel scheme to reduce IM Vibration caused by unwanted noise in term of
00	140	current harmonics
61	141	Machine Learning based Framework for Prediction of Photovoltaic Output
		Power
62	143	Voltage Harmonics and Transient Disturbances Detection and Classification
		using GoogLeNet Model of Deep Learning
63	144	Assessment of Transient Disturbance using Discrete Fourier Transform and Feed
		Forward Neural Network based Hybrid Classifier
64	145	A New Carrier Based PWM for a 3-Phase 5-Level Neutral Point Clamped Inverter
65	152	TOPSIS based Ranking of Lean Six Sigma Barriers to Electric Vehicle Assembly
66	153	Optimal Harmonic Current Extractor using Digital Warped Filter for a Single –
	1	Phase PV Integrated Grid-Tied System with 5-Level DSTATCOM
67	154	A Nonlinear Control of a DC Microgrid Consisting of Wave Energy Converter and
60	155	Hybrid Energy Storage System Power Management Strategy of DC microgrid with Grid Connected Mode
68	155	<u> </u>
69	157	A LCC-Series Based Multiphase Inductive Power Transfer System Employing
70	150	Duty Ratio Control A Modified MMC Tapplagy to Increase Number of Voltage Levels
70	158	A Modified MMC Topology to Increase Number of Voltage Levels
71	160	Computational Analysis of Perovskite based Standalone Solar PV System
72	161	Modelling and control of electric vehicle motors and drives in a unified
		framework
73	162	A unified approach to modelling of time-varying delay system for electric
	-	vehicles Energy Consumption Prediction Focus on Floatrical Vehicle Model through
74	163	Energy Consumption Prediction Focus on Electrical Vehicle Model through
		Transformation of Time Series Data











75	167	Simulation and Analysis of Electric Vehicle System
76	168	Temperature Prediction Algorithms using Machine Learning for Electrical Vehicles
77	169	Performance Analysis and Control of Bi-Directional Converter-Inverter Interfaced Battery System for Electric Transportation
78	170	Multi-Winding Step-Up Transformer Based Single-Phase Reduced Switch Multilevel Inverter
79	171	Development of DS-CC-CT-CV charging strategy for health-aware battery fast charging using quad objective genetic algorithm
80	172	Adaptive Cooperative Control of the Multi-Agent System
81	173	Design and Performance Estimation of Electric Vehicle
82	175	Decision Level Fusion-Based Faulty Section Identification For Medium Voltage Zonal DC Microgrid
83	180	Design of Remora Optimized FOPID Controller (RO-FOPIDC) for Balancing an Inverted Pendulum (IP)
84	182	Control of DIBBFC for PV and PMSG Based DC-DC Distributed Generation System
85	185	Performance analysis of an electric vehicle fleet for automatic generation control of a multi area multi source power system using a cascaded controller tuned with a recent Mayfly optimization algorithm
86	187	An Improved Vector Control Integrated DPC Scheme for Effective Ride Through of PMSG during Grid Distortions
87	188	Land Cover and Land Use Classification Approach to Maintain the Green Environment in Smart Village
88	190	Load frequency control of multi-area renewable energy micro-grid system
89	191	Switched-Capacitor Boost Common-Ground Six-Switch Seven-Level Inverter with Simplified Control
90	192	A Single Stage Single Phase Micro-inverter with Inherent Active Power Decoupling Mechanism for PV-Grid system based EV Charging Station
91	194	Real-time optimal charging strategy for a fleet of electric vehicles minimizing battery degradation
92	197	An Analytical Review on State-of-the-Art of Green Hydrogen Technology for Fuel Cell Electric Vehicles Applications
93	198	A Novel Approach for Detection of Cyber Attacks in Microgrid SCADA System
94	199	Early detection of thermal runaway of lithium-ion battery- an experimental study
95	200	Significance of multi-microgrids in optimizing the operational cost and total consumer tariff
96	201	Real-Time Energy Management of Evs in a Microgrid Integrated with Distributed Energy Resources Considering Uncertainties
97	202	Enhanced Stateflow-based Voltage Controller for a Stand-Alone Induction Generator
		Voltage Stability Analysis of a Multi-Infeed VSC based HVDC Transmission











99	204	A Space Vector Modulated Direct Torque Control of Induction Motor with Improved Transient Performance and Reduced Parameters Dependency
100	205	A Comprehensive Review on DC Microgrid Controlling Techniques
		Approximation of Bio-Ethanol Distillation Controller Exploiting Grey-Wolf
101	206	Optimizer
102 209	209	Performance Analysis and Evaluation of Fuel Economy for Fuel Cell Hybrid
102	203	Electric Vehicles Under Different Driving Cycles
103	210	Cyber-tolerant Resilient Frequency Control for Microgrid with Mismatched
		Uncertainties and Stealthy FDI-attack
104	211	State-of-the-Art of Green Hydrogen Fuel Cell Electric Vehicles and Battery
105	242	Management Systems Optimized Clin and Slide Properties Control for Electric Train Units
105	212	Optimized Slip and Slide Prevention Control for Electric Train Units
106	213	Magnetizing Current Harmonics Mitigation Technique for Robust DFIG
		Operation Under Grid Voltage Distortions Improved High Gain Quadratic Boost Converter Using voltage lifting technique
107	214	and Reduced Voltage Stress
108	215	A Novel Current Fed Multi-Output DC-DC Converter for High Gain Applications
100	213	An Intelligent Deep Reinforcement Learning Control for DC-DC Power Buck
109	216	Converter Feeding a Constant Power Load
		Data-Centric Decentralised Controller for effective P-f and Q-V control in AC
110	219	Microgrids
111	220	Analysis of Switched-Capacitor based High-Gain Boost Converter
		Selection of Optimal Rotor Geometry for PM-Assisted Synchronous Reluctance
112	222	Motor used in EV Applications
113	224	A Technique for Protection and Control of a Hybrid AC/DC Microgrid
114	225	Reduced-order Modelling of Level-Up DC-DC Converter Using TLBO Algorithm
115	227	Optimal PID Controller Design for Electric Vehicle System
	228	A survey on Indian user's purchasing intention of electric vehicle and the factors
116		influencing their decision
117	220	A Comparative Analysis of Primary Microgrid Control through Adaptive VSG
117	229	Based Multi-Loop and Single Loop Configuration
118	230	Modeling of a Separately Excited DC Motor Driven Wind Turbine Emulator
119	231	Blockchain-Based Microgrid Frequency Control and Energy Trading to
113	231	Incentivize EV Aggregator
120	235	Elephant Herding Optimization Assisted Reduction of Level-Up DC-DC Converter
121	237	LCDD Snubber Dual-Switch Forward Converter for High Voltage Battery
	237	Management System
122	239	Dynamic Pricing Based Mobile Charging Service for Electric Vehicle Charging
123	240	AFL Based SMO Control Scheme for Sensorless Vector controlled PMSM Drive
124	241	A Boost-Buck Three-Port Converter for Solar PV Integrated Electric Vehicle
1 4→	241	Applications
125	244	Fast Balancing Data-Driven Equalization Strategies of Series-Parallel Switched
	277	Capacitor Active Balancing Architecture
126	245	Electric Vehicle Infrastructure Management with Maximum Utilization of
		Renewable Energy: A Review











127	247	Self-Tuned PI Controller Based SEPIC and Cuk Converter for PFC
128	248	Output Voltage Regulated Multiple Output Flyback Converter with PID and Fuzzy Logic Controller
129	249	Comparative Analysis for State-of-Charge Estimation of Lithium-Ion Batteries using Non-Linear Kalman Filters
130	251	Comprehensive Fleet and Charger Sizing for Public Transportation Electrification Considering Route Assignment
131	252	Minimum Voltage Injection based Electric Spring for Isolated Microgrid Operation
132	268	Predictive Performance of EV Charging Behaviour in COVID-19
133	269	Utilizing Non Linear Functions based Quantum Kernels to Categorize Small Datasets
134	274	Assessing the Feasibility and Efficacy of Embedded Machine Learning Based Voice-Activated LED Lighting System for Smart Village Micro-Utilities
135	277	Control of DVR Using Multilayer Gamma Filter under Non-ideal Grid Conditions
136	280	Vehicle Suspension Control using LQR Technique
137	282	Three-Zone Distance Protection of the Transmission Line Considering High Resistance Fault (HRF)
138	283	An Investigation on SMC-DTC technique using SVM for PMSM drive
139	284	An Efficient bi-directional System with reduced switch count for Wireless Charging in EV
140	287	Comparative Study of Optimization Techniques and Fuzzy Logic Controller for Load Frequency Control in Hybrid Power System
141	288	Operation of Autonomous AC Microgrid for Powering Rural Consumers
142	296	Minimization of BLDC Motor Torque Ripple with Novel High Gain Multi-Input DC-DC Converter
143	297	Analysis and Extended Design of Two Inductor Based High Gain DC-DC Converters For Microgrid Applications
144	298	Dynamic opto-electric-thermal modelling for performance assessment of bifacial PV modules
145	300	Three-Switch Double-Input Step-Up DC-DC Converter
146	302	A Novel Method to Reduce Effect of Negative Gate Voltage Spike and Oscillation to Protect Gate Driver
147	306	Islanding detection of integrated wind energy system with variations in DC link voltage
148	307	ARX Structure Based Predictive Torque Control of IMD with Improved Flux Estimation
149	310	Single Phase Two-Stage Transformerless Five- Level Inverter for PV Applications
150	311	Single-Phase Five-level H5 and HERIC Transformerless Inverters for PV Applications
151	312	Investigation on 24-Pulse Diode Rectifier for More Electric Aircrafts
152	314	Power Flow Management of Solar PV fed Switched Boost Inverter
153	315	Design and performance analysis of a waste-to-energy plant integrated with fuel cell and efficient power conversion











			_
154	316	Constant Current Fault-Tolerant Buck Type Interleaved DC-DC Converter for Battery Charging Applications	9
155	317	High Performance Speed Control For Three-Phase Switched-Capacitor Multilevel Inverter Fed Induction Motor Drive	9
156	318	Spatial Electric Load Forecasting Using a Geographic Information System: A Case Study of Khon Kaen, Thailand	9
157	319	T-type Multilevel Inverters: A Comparative Performance Analysis	9
158	320	A New Three-Phase Three-Level Inverter Obtained From Two-Level Inverter By Considering the Effect of Device Junction Capacitance Across the Switch	9
159	321	NCL Voltage Profile Improvement Using Combined Control Strategy in Electric Spring-based Isolated Hybrid Microgrid during Torque Variation	93
160	322	Modelling and Implementation of Space Vector Modulation based Direct Torque Control in Stator Flux Reference Frame for Induction Motor Drive	94
161	329	Particle Swarm Optimization-based MPPT Performance of a Minimum Phase Bipolar Converter	94
162	330	A Modified Maximum Torque Per Ampere Technique for Synchronous Reluctance Motor considering Magnetic Saturation	9:
163	333	An Orthogonal Current Component based PQ Control Strategy for a NSC used in a PEMFC Microgrid	96
164	337	LOAD DISAGGREGATION USING GRAPH SIGNAL PROCESSING	90
165	339	Design of a Novel Low Cost Induction Assisted Interior Permanent Magnet Synchronous Motor for Electrified Vehicle Application	9
166	340	Characterization and Steady State Analysis of Multiport Switched Boost Converter	9
167	341	Study of different inductance profiles of SynRM coupled to constant torque load	9
168	342	Optimal Placement and Sizing of Energy Storage Systems in Networked Microgrid	9:
169	346	Determination of Voltage Security Constrained Maximum Loadability Limit for EV charging station with and without DG	9:
170	347	A Co-ordinated Dual Hydro And Steam GPSS Damping Action For Random Renewable And EV Penetrations	10
171	350	Perfomance Analysis of Distribution Network using Optimal Filter Allocation Algorithm	10
172	351	Al-Enabled Prediction of Wind Speed and Temperature with Multiverse Optimization for Efficient Control of Standalone Hybrid System	10
173	353	A New Harmonic Compensation Based Modified Field Oriented Control of Permanent Magnet BLDC Motor with Reduced Torque Pulsation	10
174	354	A Study on Thermal Management for System Components of Battery Electric Vehicles	10
175	355	Zero-voltage Transition Based Dual-switch Enhanced Gain Boost Converter	10
176	357	Optimization of reactive power control and power production cost using Genetic Algorithm for optimal setting of SSSC in power system.	10
177	358	Accurate State-of-Charge Prediction for Plug-In Electric Vehicles using Machine Learning: An Investigation of Artificial Neural Network	10











178	359	Real-Time Digital Simulation for Investigating Transient Stability of Power System Network
179	360	High Gain Modified Quadratic Boost-Cuk Converter with L-Impedance Network for Fuel Cell Application
180	362	Advanced Fault Detection Technique for AC Microgrid Protection
181	372	The Visual Assistant – Image-to-Speech Generator
182	373	Identification of Malicious Data Attacks in a Smart Grid Network Using Spectral Clustering
183	375	Design and Analysis of LLC Resonant Converter for Electric Vehicle Battery Charging
184	376	Load Frequency Control of Two-area Power System Using An Actor-Critic Reinforcement Learning Method-based Adaptive PID Controller
185	377	EV Integrated PV Water Pumping System with Priority-based Control
186	379	Experimental Study of Active and Reactive Power Control in a Grid-Connected Photovoltaic System Using an Optimally tuned Sliding Mode Controller
187	380	A Deep LSTM-based RSF Capacitor Voltage Balancing Method for MMC
188	381	Study on Artificial Neural Network based MPPT Algorithm in PV Application
189	386	Optimal Scheduling of Electric Vehicles: Leveraging Grid-to-Vehicle (G2V) and Vehicle-to-Grid (V2G) Prices: A Game-Theoretic Approach
190	387	Maximum Power Point Tracking using Type-I Fuzzy Logic Controller in P-V systemf
191	388	Optimal EV Charging and Battery Swapping Station Allocation with Traffic- Aware Energy Loss Minimization Using Butterfly Optimization Algorithm
192	391	A Novel Three-Port Converter for Battery and Ultra Capacitor based Electric Vehicle
193	392	Smart EV Battery Scheduling in a Virtual Power Plant: A Stochastic Receding- Horizon Convex Optimization Approach
194	393	Vehicle-to-Grid (V2G) Technology for Optimal Grid Demand Profile and Sustainable Energy Management: A State-of-the-Art Survey
195	399	An Anti-islanding Scheme for AC-microgrids
196	400	Hybrid Renewable PV-DG with DSTATCOM Planning in Reconfigured Distribution Network for Techno-Economic Analysis
197	401	Teager Energy based Novel Relaying Scheme for DC Distribution Network
198	402	A Transformer Neural Network-based Cyberattack Detection Technique in Hybrid Power System
199	403	Optimized Fuzzy PID based HSAPF with PQ Enrichment
200	405	Modified High Gain Non-Isolated Boost DC-DC Converter for Electric Vehicles
201	406	Reactive Power Support for Voltage Profile Improvement and Loss Reduction in Radial Distribution Systems with Solid-State Transformer
202	407	Design and Comparision of Five-Phase Induction Motors with Different Dimensions for Heavy Duty Electric Vehicles
203	408	Model Parameter Extraction for PEM Electrolyzer Using Honey Badger Algorithm
204	409	Frequency Regulation in Multi-Microgrid Power System using an Adaptive Beluga Whale Optimizer-Based FOPID Controller











	1		7
205	410	A New and Effective High Gain DC-DC Converter Topology with Hybrid Configuration for Solar Photovoltaic-Based Power Generation Systems	1
206	411	Asymmetrical Eleven-Level Multilevel Inverter with Low Switching Count and Voltage Stress	1
207	412	Harmonic content analysis of a soft starting variable frequency motor drive based on FPGA	1
208	413	Mobile Robots with Dynamic Obstacle Avoidance] :
209	414	Control of Two 3-phase BLDC Motor Drives using a Five-leg Inverter] :
210	415	Design of 50 kW Two Stage off-Board EV Charger using CC-CV Algorithm	
211	418	POWER QUALITY IMPROVEMENT IN THREE PHASE DISTRIBUTION LINE USING DSTATCOM	
212	420	Dual Output Symmetrical Voltage Cancellation Controlled Full Bridge Resonant LED Driver	
213	421	Analysis of PWM Techniques Applied to Five-Phase Drive with Distributed and Concentrated winding for Torque Enhancement	
214	422	Sensitivity analysis of battery digital twin design variables using genetic programming	
215	423	Operation Strategies of Electric Vehicle Charging Stations with Wind Power Generation	
216	432	Improved VSS-LMS based Control for Autonomous AC Microgrid for Rural Areas	
217	433	Parametric Time-series Modelling of London Smart Meter Data for Short-term Demand Forecasting	
218	434	Renewable Energy based Off-Grid Electric Vehicle Charging Station	
219	435	Disturbance Observer Based Sliding Mode Approach for Dual Active Bridge Converter	
220	436	Design of Controller for the Integration of Solar PV and Battery in DC Microgrid	
221	437	Intelligent Overcurrent and Distance Relay Coordination in Power Networks	
222	440	Power Flow Analysis of Hybrid Distribution Systems	_
223	444	Planning and operation of hybrid local energy system through Ant-Lion optimization	
224	447	Nine-Level Multilevel Inverter with Low Switching Count and Voltage Stress for Solar Photovoltaic Application	
225	449	THD Analysis of Hybrid Switched-Capacitor Integrated Multilevel Inverter Using Level-Shifted Modulation Techniques	
226	453	Technical feasibility of agro-photovoltaic system in Composite climate of Rajasthan, India	
227	454	Performance Computation of Sustainable Energy System Using PVLIB-Python	1
228	459	Frequency Control During LVRT Operation for CHB Converter in a Low-Inertia System	
229	460	Exploring the PV topologies in comparison with Loshu Reconfiguration: Estimate Output Power	
230	461	Design of Direct Stroke Lightning Protection by Using RAZEVG Method For 400/220/33kv GIS Substation Which Include Outdoor Equipment's	
231	464	Home Security System Based On Facial Recognition	











232	467	Graph Theoretic Modified Proximity Index based Approach for Voltage Profile Improvement of Power System
233	468	Solar PV-Assisted Charging System for Electric Vehicles
234	469	Assessment Of Distribution System Resilience Considering Realistic Aspects of Cyclonic Storms
235	477	An ESS-Facilitated Grid-Synchronized Solar PV Inverter Based on a Bidirectional High-Gain Transformerless Buck/Boost DC-DC Converter
236	478	Optimal Tilted Controller and Its Application to Frequency Regulation in Microgrid
237	479	Effect of Harmonics Contributed by EV Charger on Performance of Induction Motor included in Air Condition Load
238	483	Model Predictive Longitudinal Control for Autonomous Driving
239	487	Assessment of Reliability Indices under Generation and Peak Load Constrained Scenarios
240	489	Analysis of Sliding Mode, FUZZY-PI and PI Control Strategies for Permanent Magnetic Synchronous Motor Drive
241	490	Optimized Design and Improved Performance of IPM-BLDC Motor for Light Electric Vehicles
242	491	IOT-Powered Crop Shield System for Surveillance and Auto Transversum
243	492	Improving the Performance of the Electric Vehicle Suspension System using Sliding Mode Controller and PID Controller
244	493	BLE Controlled Smart LED Driver for Home Lighting Applications
245	494	A Smart Charging Strategy for Electric Vehicles with a Priority for Emergency Vehicles
246	497	Circuit Model Analysis to Delineate the Significance of Load Coil in Resonant Inductively Coupled Wireless Power Transfer System
247	498	Design and Control of Multi-Pulse and Hybrid Power Converters for Medium Voltage Drive System
248	499	Battery Energy Storage Sizing and Operational Strategy for Microgrid Considering Electric Vehicle
249	500	A Bridgeless Rectifier with Improved Power Quality for Low Power SRM Drive
250	502	Performance Evaluation of Bridgeless Buck-boost LED Driver Circuit with Linear Active Disturbance Rejection Control
251	504	Effect of Coil Geometry and Dimensions on the Performance of Wireless Power Transfer in AUV Application
252	505	Blockchain-based Secure EV Charging System
253	506	Sliding Mode Control for Bidirectional DC-DC Power Converter in Electric Vehicle Charger for G2V and V2G Applications