Sanjeevikumar Padmanaban

List of Publications by Year in Descending Order

483	6,007	36	56
papers	citations	h-index	g-index
578	9,161	2.6	6.85
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
483	High Efficiency Operation of Brushless DC Motor Drive using Optimized Harmonic Minimization based Switching Technique. *IEEE Transactions on Industry Applications*, **2022**, 1-1	4.3	2
482	Review□ontemporary Progresses in Carbon-Based Electrode Material in Li-S Batteries. *Journal of the Electrochemical Society*, **2022**, 169, 020530	3.9	5
481	Performance Evaluation of a MW-Size Grid-Connected Solar Photovoltaic Plant Considering the Impact of Tilt Angle. *Sustainability*, **2022**, 14, 1444	3.6	0
480	Double-switch switched-inductor converter with minimal switch voltage stress for renewable energy conversion. *Computers and Electrical Engineering*, **2022**, 98, 107682	4.3	0
479	Current Limitation Method for V / f Control of Five-Phase Induction Machines. *International Transactions on Electrical Energy Systems*, **2022**, 2022, 1-12	2.2	
478	An adaptive-neuro fuzzy inference system based-hybrid technique for performing load disaggregation for residential customers.. *Scientific Reports*, **2022**, 12, 2384	4.9	1
477	FinFET Technology for Low-Power Applications **2022**, 297-306		1
476	Design of Low Power Junction-Less Double-Gate MOSFET **2022**, 1-11		
475	Power Management of Battery Integrated PV System with SMC-Controlled Bidirectional Converter. *Engergy Systems in Electrical Engineering*, **2022**, 423-432	0.3	
474	An Internet of Things-Inspired Dual-Level Boost Converter for BLDC-Driven Photovoltaic Water Pumping Applications. *Engergy Systems in Electrical Engineering*, **2022**, 371-381	0.3	
473	Scott-Tied Magnetically Linked Solar Multilevel Converter in Varying Environmental Conditions. *IEEE Journal of Emerging and Selected Topics in Industrial Electronics*, **2022**, 1-1	2.6	1
472	Comprehensive Review of KY Converter Topologies, Modulation and Control Approaches With Their Applications. *IEEE Access*, **2022**, 10, 20978-20994	3.5	0
471	Optimal Location of EV Charging Stations by Modified Direct Search Algorithm **2022**, 381-398		0
470	Integration of Fast Charging Stations for Electric Vehicles with the Industrial Power System **2022**, 175-194		
469	Optimization Algorithm for Renewable Energy Integration **2022**, 1-39		
468	Real-Time EVCS Scheduling Scheme by Using GA **2022**, 409-433		
467	Impact of stator slot geometry on the windage loss in a high-speed linear switched reluctance motor. *IET Electric Power Applications*, **2022**, 16, 447-462	1.8	0

466	Chaotic PSO for PV System Modelling **2022**, 41-77		
465	User Interactive GUI for Integrated Design of PV Systems **2022**, 243-265		
464	Short Term Load Forecasting for CPP Using ANN **2022**, 391-408		
463	Energy Management of Standalone Hybrid Wind-PV System **2022**, 179-198		
462	Application of Artificial Intelligence and Machine Learning Techniques in Island Detection in a Smart Grid **2022**, 79-109		
461	Enhancement of Transient Response of Statcom and VSC Based HVDC with GA and PSO Based Controllers **2022**, 345-390		0
460	A Review of Algorithms for Control and Optimization for Energy Management of Hybrid Renewable Energy Systems **2022**, 131-155		1
459	Intelligent Control Technique for Reduction of Converter Generated EMI in DG Environment **2022**, 111-129		
458	Situational Awareness of Micro-Grid Using Micro-PMU and Learning Vector Quantization Algorithm **2022**, 267-285		
457	Corrections to Design and Implementation of Seventeen Level Inverter With Reduced Components *IEEE Access*, **2022**, 10, 40214-40215	3.5	0
456	Efficient Multi-Phase Converter for E-Mobility. *World Electric Vehicle Journal*, **2022**, 13, 67	2.5	0
455	Performance Evaluation of Solar-PV-Based Non-Isolated Switched-Inductor and Switched-Capacitor High-Step-Up Cuk Converter. *Electronics (Switzerland)*, **2022**, 11, 1381	2.6	1
454	An Energy-Efficient Start-Up Strategy for Large Variable Speed Hydro Pump Turbine Equipped with Doubly Fed Asynchronous Machine. *Energies*, **2022**, 15, 3138	3.1	0
453	Review Carbon Electrodes in Magnesium Sulphur Batteries: Performance Comparison of Electrodes and Future Directions. *Journal of the Electrochemical Society*, **2021**, 168, 120555	3.9	6
452	Energy Conservation Approach for Continuous Power Quality Improvement: A Case Study. *IEEE Access*, **2021**, 9, 146959-146969	3.5	1
451	A Multilevel Inverter Topology Using Diode Half-Bridge Circuit with Reduced Power Component. *Energies*, **2021**, 14, 7249	3.1	4
450	The state-of-the-art of power electronics converters configurations in electric vehicle technologies **2021**, 1, 100001		7
449	Prosumer Energy Management For Optimal Utilization of Bid Fulfillment with EV Uncertainty Modeling. *IEEE Transactions on Industry Applications*, **2021**, 1-1	4.3	2

448	Simultaneous Long-Term Planning of Flexible Electric Vehicle Photovoltaic Charging Stations in Terms of Load Response and Technical and Economic Indicators. *World Electric Vehicle Journal*, **2021**, 12, 190	2.5	3
447	Variable fractional power-least mean square based control algorithm with optimized PI gains for the operation of dynamic voltage restorer. *IET Power Electronics*, **2021**, 14, 821-833	2.2	0
446	Review of Energy Storage System for Microgrid **2021**, 57-90		3
445	A low power and soft error resilience guard-gated Quartro-based flip-flop in 45 nm CMOS technology. *IET Circuits, Devices and Systems*, **2021**, 15, 571-580	1.1	
444	Performance of DVR Using Optimized PI Controller Based Gradient Adaptive Variable Step LMS Control Algorithm. *IEEE Journal of Emerging and Selected Topics in Industrial Electronics*, **2021**, 2, 155-163	2.6	4
443	Optimized Economic Operation of Microgrid: Combined Cooling and Heating Power and Hybrid Energy Storage Systems. *Journal of Energy Resources Technology, Transactions of the ASME*, **2021**, 143,	2.6	6
442	Layout optimisation algorithms and reliability assessment of wind farm for microgrid integration: A comprehensive review. *IET Renewable Power Generation*, **2021**, 15, 2063-2084	2.9	2
441	Binary-Quintuple Progression Based 12-Switch 25-Level Converter With Nearest Level Modulation Technique for Grid-Tied and Standalone Applications. *IEEE Transactions on Industry Applications*, **2021**, 57, 3214-3223	4.3	5
440	Multilevel Converter Applications in the Area of Renewable Energy, More-Electric Propulsion, Electric Vehicles and Power Grid Integration. *IEEE Transactions on Industry Applications*, **2021**, 57, 3050-3051	4.3	0
439	Modelling, analysis, and implementation of a switched-inductor based DC/DC converter with reduced switch current stress. *IET Power Electronics*, **2021**, 14, 1504-1514	2.2	1
438	Optimal Economic Modelling of Hybrid Combined Cooling, Heating, and Energy Storage System Based on Gravitational Search Algorithm-Random Forest Regression. *Complexity*, **2021**, 2021, 1-13	1.6	1
437	Spider Community Optimization Algorithm to Determine UPFC Optimal Size and Location for Improve Dynamic Stability **2021**,		4
436	A multivariable transmission line protection scheme using signal processing techniques. *IET Generation, Transmission and Distribution*, **2021**, 15, 3115	2.5	2
435	System Architecture, Design, and Optimization of a Flexible Wireless Charger for Renewable Energy-Powered Electric Bicycles. *IEEE Systems Journal*, **2021**, 15, 2696-2707	4.3	3
434	Single-Phase Step-Up Switched-Capacitor-Based Multilevel Inverter Topology With SHEPWM. *IEEE Transactions on Industry Applications*, **2021**, 57, 3107-3119	4.3	42
433	Optimal Energy Harvesting From a Multistrings PV Generator Based on Artificial Bee Colony Algorithm. *IEEE Systems Journal*, **2021**, 15, 4137-4144	4.3	28
432	A Novel Modified Switched Inductor Boost Converter With Reduced Switch Voltage Stress. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 1275-1289	8.9	28
431	High Gain Switched-Inductor-Double-Leg Converter With Wide Duty Range for DC Microgrid. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 9561-9573	8.9	7

430	Improved Perturb and Observation Maximum Power Point Tracking Technique for Solar Photovoltaic Power Generation Systems. *IEEE Systems Journal*, **2021**, 15, 3024-3035	4.3	23
429	Genetic algorithm based reference current control extraction based shunt active power filter. *International Transactions on Electrical Energy Systems*, **2021**, 31,	2.2	6
428	Recognition of Power Quality Issues Associated With Grid Integrated Solar Photovoltaic Plant in Experimental Framework. *IEEE Systems Journal*, **2021**, 15, 3740-3748	4.3	14
427	PSO optimized PI controlled DC-DC buck converter-based proton-exchange membrane fuel cell emulator for testing of MPPT algorithm and battery charger controller. *International Transactions on Electrical Energy Systems*, **2021**, 31, e12754	2.2	3
426	Torque ripple minimization of PMSM using an adaptive Elman neural network-controlled feedback linearization-based direct torque control strategy. *International Transactions on Electrical Energy Systems*, **2021**, 31,	2.2	47
425	Extendable Switched-Capacitor Multilevel Inverter With Reduced Number of Components and Self-Balancing Capacitors. *IEEE Transactions on Industry Applications*, **2021**, 57, 3154-3163	4.3	7
424	Small-Signal Stability Analysis for Microgrids Under Uncertainty Using MALANN Control Technique. *IEEE Systems Journal*, **2021**, 15, 3797-3807	4.3	1
423	Triple-Switch DC-to-DC Converter for High-Voltage Boost ApplicationRevista. *Lecture Notes in Electrical Engineering*, **2021**, 197-204	0.2	
422	. *IEEE Access*, **2021**, 9, 44888-44904	3.5	1
421	. *IEEE Access*, **2021**, 9, 16488-16507	3.5	9
420	Design and Control of Grid-Connected PWM Rectifiers by Optimizing Fractional Order PI Controller Using Water Cycle Algorithm. *IEEE Access*, **2021**, 9, 125941-125954	3.5	2
419	Design and Implementation of Seventeen Level Inverter With Reduced Components. *IEEE Access*, **2021**, 9, 16746-16760	3.5	21
418	Implementation of APSO and Improved APSO on Non-Cascaded and Cascaded Short Term Hydrothermal Scheduling. *IEEE Access*, **2021**, 9, 77784-77797	3.5	5
417	. *IEEE Access*, **2021**, 9, 75058-75070	3.5	9
416	LSTM Recurrent Neural Network Classifier for High Impedance Fault Detection in Solar PV Integrated Power System. *IEEE Access*, **2021**, 9, 32672-32687	3.5	26
415	Design and Implementation of a Single-Phase 15-Level Inverter With Reduced Components for Solar PV Applications. *IEEE Access*, **2021**, 9, 581-594	3.5	8
414	. *IEEE Access*, **2021**, 9, 317-338	3.5	6
413	Robust Queen Bee Assisted Genetic Algorithm (QBGA) Optimized Fractional Order PID (FOPID) Controller for Not Necessarily Minimum Phase Power Converters. *IEEE Access*, **2021**, 9, 93331-93337	3.5	2

412	Rule-Based Inferential System for Microgrid Energy Management System. *IEEE Systems Journal*, **2021**, 1-10	4.3	0
411	Conventional and Metaheuristic Optimization Algorithms for Solving Short Term Hydrothermal Scheduling Problem: A Review. *IEEE Access*, **2021**, 9, 25993-26025	3.5	10
410	Systematic Approach for State-of-the-Art Architectures and System-on-Chip Selection for Heterogeneous IoT Applications. *IEEE Access*, **2021**, 9, 25594-25622	3.5	6
409	Controller Parameters Optimization for Multi-Terminal DC Power System Using Ant Colony Optimization. *IEEE Access*, **2021**, 9, 59910-59919	3.5	2
408	. *IEEE Access*, **2021**, 9, 69798-69813	3.5	1
407	Implementation of Optimization-Based PI Controller Tuning for Non-Ideal Differential Boost Inverter. *IEEE Access*, **2021**, 9, 58677-58688	3.5	1
406	A Novel Solar Photovoltaic Fed TransZSI-DVR for Power Quality Improvement of Grid-Connected PV Systems. *IEEE Access*, **2021**, 9, 7263-7279	3.5	8
405	Real-Time Implementation of Extended Kalman Filter Observer With Improved Speed Estimation for Sensorless Control. *IEEE Access*, **2021**, 9, 50452-50465	3.5	6
404	Non-Isolated DC□DC Power Converter With High Gain and Inverting Capability. *IEEE Access*, **2021**, 9, 62084-62092	3.5	4
403	Protection Scheme using Wavelet-Alienation-Neural Technique for UPFC Compensated Transmission Line. *IEEE Access*, **2021**, 9, 13737-13753	3.5	5
402	Performance characteristics and reliability assessment of self-excited induction generator for wind power generation. *IET Renewable Power Generation*, **2021**, 15, 1927-1942	2.9	3
401	A Comprehensive Review on Energy Management in Micro-Grid System **2021**, 1-24		1
400	Optimal Planning of Electrical Appliance of Residential Units in a Smart Home Network Using Cloud Services. *Smart Cities*, **2021**, 4, 1173-1195	3.3	13
399	Double stage converter with low current stress for low to high voltage conversion in nanogrid. *Energy Reports*, **2021**, 7, 5710-5721	4.6	2
398	. *IEEE Access*, **2021**, 9, 43862-43875	3.5	14
397	Mitigation of Complex Non-Linear Dynamic Effects in Multiple Output Cascaded DC-DC Converters. *IEEE Access*, **2021**, 9, 54602-54612	3.5	4
396	Application of Dynamically Search Space Squeezed Modified Firefly Algorithm to a Novel Short Term Economic Dispatch of Multi-Generation Systems. *IEEE Access*, **2021**, 9, 1918-1939	3.5	12
395	A Comprehensive Review of Authentication Schemes in Vehicular Ad-Hoc Network. *IEEE Access*, **2021**, 9, 31309-31321	3.5	25

394	A Novel Asymmetrical 21-Level Inverter for Solar PV Energy System With Reduced Switch Count. *IEEE Access*, **2021**, 9, 11761-11775	3.5	13
393	Clustering Isolated Nodes to Enhance Network's Life Time of WSNs for IoT Applications. *IEEE Systems Journal*, **2021**, 1-10	4.3	1
392	Deep Learning for Fault Diagnostics in Bearings, Insulators, PV Panels, Power Lines, and Electric Vehicle Applications□The State-of-the-Art Approaches. *IEEE Access*, **2021**, 9, 41246-41260	3.5	8
391	Automated Distribution Networks Reliability Optimization in the Presence of DG Units Considering Probability Customer Interruption: A Practical Case Study. *IEEE Access*, **2021**, 9, 98490-98505	3.5	4
390	Design and Implementation of 31-Level Asymmetrical Inverter With Reduced Components. *IEEE Access*, **2021**, 9, 22788-22803	3.5	10
389	Internet of Things and Machine Learning for Improving Solar-PV Plant Efficiency **2021**, 279-296		
388	Modular Design of Nonlinear Controllers for Photovoltaic Distributed Generation Systems **2021**, 297-310		
387	Grid Power Quality Improvement Using a Bidirectional Off-Board EV Battery Charger in Smart City Scenario **2021**, 69-85		
386	Higher Levels of Wind Energy Penetration into the Remote Grid **2021**, 261-277		
385	Future Trends and Aging Analysis of Battery Energy Storage Systems for Electric Vehicles. *Sustainability*, **2021**, 13, 13779	3.6	3
384	Power Quality Mitigation in a Distribution Network Using a Battery Energy Storage System **2021**, 51-68		
383	Framework for User-Centered Access to Electric Charging Facilities via Energy-Trading Blockchain **2021**,		1
382	. *IEEE Access*, **2020**, 8, 75163-75183	3.5	21
381	Reliability enhancement of electrical power system including impacts of renewable energy sources: a comprehensive review. *IET Generation, Transmission and Distribution*, **2020**, 14, 1799-1815	2.5	30
380	Analysis and Investigation of Hybrid DC□DC Non-Isolated and Non-Inverting Nx Interleaved Multilevel Boost Converter (Nx-IMBC) for High Voltage Step-Up Applications: Hardware Implementation. *IEEE Access*, **2020**, 8, 87309-87328	3.5	16
379	. *IEEE Access*, **2020**, 8, 22386-22399	3.5	17
378	A Hybridization of Cuk and Boost Converter Using Single Switch with Higher Voltage Gain Compatibility. *Energies*, **2020**, 13, 2312	3.1	14
377	Torque Ripple and Loss Minimization of Trapezoidal Brushless DC Motor Drive by Harmonics Current Excitation Switching Technique **2020**,		1

376	Implementation of Designed PV Integrated Controlled Converter System. *IEEE Access*, **2020**, 8, 100905-100915	3.5	0
375	Wind Generation Forecasting Methods and Proliferation of Artificial Neural Network: A Review of Five Years Research Trend. *Sustainability*, **2020**, 12, 3778	3.6	37
374	Inertia emulation control technique based frequency control of grid-connected single-phase rooftop photovoltaic system with battery and supercapacitor. *IET Renewable Power Generation*, **2020**, 14, 1156-1163	2.9	14
373	A Novel Sensorless Approach for Speed and Displacement Control of Bearingless Switched Reluctance Motor. *Applied Sciences (Switzerland)*, **2020**, 10, 4070	2.6	0
372	Operational performance of on-grid solar photovoltaic system integrated into pre-fabricated portable cabin buildings in warm and temperate climates. *Energy for Sustainable Development*, **2020** , 57, 109-118	5.4	20
371	Interleaved Multilevel Boost Converter With Minimal Voltage Multiplier Components for High-Voltage Step-Up Applications. *IEEE Transactions on Power Electronics*, **2020**, 35, 12816-12833	7.2	22
370	Non-Isolated High-Gain Triple Port DCDC Buck-Boost Converter With Positive Output Voltage for Photovoltaic Applications. *IEEE Access*, **2020**, 8, 113649-113666	3.5	34
369	Comprehensive Review of Distributed FACTS Control Algorithms for Power Quality Enhancement in Utility Grid With Renewable Energy Penetration. *IEEE Access*, **2020**, 8, 107614-107634	3.5	44
368	Development of Stand-Alone Green Hybrid System for Rural Areas. *Sustainability*, **2020**, 12, 3808	3.6	6
367	A novel cross-connected multilevel inverter topology for higher number of voltage levels with reduced switch count. *International Transactions on Electrical Energy Systems*, **2020**, 30, e12381	2.2	16
366	Computational Tools for Modeling and Analysis of Power Generation and Transmission Systems of the Smart Grid. *IEEE Systems Journal*, **2020**, 14, 3641-3652	4.3	8
365	BOLD: Bio-Inspired Optimized Leader Election for Multiple Drones. *Sensors*, **2020**, 20,	3.8	13
364	. *IEEE Access*, **2020**, 8, 127368-127392	3.5	52
363	Combined Harmonic Reduction and DC Voltage Regulation of A Single DC Source Five-Level Multilevel Inverter for Wind Electric System. *Electronics (Switzerland)*, **2020**, 9, 979	2.6	4
362	Gallium Nitride Power Electronic Devices Modeling Using Machine Learning. *IEEE Access*, **2020**, 8, 119654-119667	3.5	4
361	Design and implementation of an improved sinusoidal controller for a two-phase enhanced impedance source boost inverter. *Computers and Electrical Engineering*, **2020**, 83, 106575	4.3	7
360	Realizing a Novel Friction Stir Processing-Enabled FWTPET Process for Strength Enhancement Using Firefly and PSO Methods. *Materials*, **2020**, 13,	3.5	2
359	Communication-Less Primary and Secondary Control in Inverter-Interfaced AC Microgrid: An Overview. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 1-1	5.6	8

358	Effective Management System for Solar PV Using Real-Time Data with Hybrid Energy Storage System. *Applied Sciences (Switzerland)*, **2020**, 10, 1108	2.6	7
357	A Hybrid PV-Battery System for ON-Grid and OFF-Grid Applications Controller-In-Loop Simulation Validation. *Energies*, **2020**, 13, 755	3.1	22
356	A Modified High Voltage Gain Quasi-Impedance Source Coupled Inductor Multilevel Inverter for Photovoltaic Application. *Energies*, **2020**, 13, 874	3.1	16
355	. *IEEE Access*, **2020**, 8, 15931-15944	3.5	4
354	A State-of-the-Art Review on the Drive of Renewables in Gujarat, State of India: Present Situation, Barriers and Future Initiatives. *Energies*, **2020**, 13, 40	3.1	31
353	An Original Hybrid Multilevel DC-AC Converter Using Single-Double Source Unit for Medium Voltage Applications: Hardware Implementation and Investigation. *IEEE Access*, **2020**, 8, 71291-71301	3.5	7
352	Enhancement of Security and Handling the Inconspicuousness in IoT Using a Simple Size Extensible Blockchain. *Energies*, **2020**, 13, 1795	3.1	10
351	A High Gain DC-DC Converter with Grey Wolf Optimizer Based MPPT Algorithm for PV Fed BLDC Motor Drive. *Applied Sciences (Switzerland)*, **2020**, 10, 2797	2.6	14
350	Infrared Thermography Based Defects Testing of Solar Photovoltaic Panel with Fuzzy Rule-Based Evaluation. *Energies*, **2020**, 13, 1343	3.1	14
349	Corrections to An Improved Harmonics Mitigation Scheme for a Modular Multilevel Converter [2019 147244-147255]. *IEEE Access*, **2020**, 8, 65351-65351	3.5	
348	Identification of Water Hammering for Centrifugal Pump Drive Systems. *Applied Sciences (Switzerland)*, **2020**, 10, 2683	2.6	8
347	Fault Investigation in Cascaded H-Bridge Multilevel Inverter through Fast Fourier Transform and Artificial Neural Network Approach. *Energies*, **2020**, 13, 1299	3.1	4
346	Closed-Loop Control and Performance Evaluation of Reduced Part Count Multilevel Inverter Interfacing Grid-Connected PV System. *IEEE Access*, **2020**, 8, 75691-75701	3.5	18
345	. *IEEE Access*, **2020**, 8, 229184-229200	3.5	9
344	EK multilevel inverter a minimal switch novel configuration for higher number of output voltage levels. *IET Power Electronics*, **2020**, 13, 2804-2815	2.2	3
343	Flying capacitor voltage balance and neutral point voltage regulation of PV array fed active neutral point clamped converter in real-time HIL. *IET Power Electronics*, **2020**, 13, 2816-2823	2.2	1
342	Evaluation of ancillary services in distribution grid using large-scale battery energy storage systems. *IET Renewable Power Generation*, **2020**, 14, 4216-4222	2.9	1
341	A Large-Gain Continuous Input-Current DC-DC Converter Applicable for Solar Energy Systems **2020**, 345-367		0

340	Effective Power Quality Disturbances Identification Based on Event-Driven Processing and Machine Learning **2020**, 191-219		1
339	Modified demagnetisation control strategy for low-voltage ride-through enhancement in DFIG-based wind systems. *IET Renewable Power Generation*, **2020**, 14, 3487-3499	2.9	1
338	A Solar Energy Based Multi-Level Inverter Structure with Enhanced Output-Voltage Quality and Increased Levels per Components **2020**, 469-493		0
337	A Developed Large Boosting Factor DC-DC Converter Feasible for Photovoltaic Applications **2020**, 515-548		1
336	Theoretical Analysis of Torque Ripple Reduction in the SPMSM Drives Using PWM Control-Based Variable Switching Frequency **2020**, 11-426		
335	Application of random matrix model in multiple abnormal sources detection and location based on PMU monitoring data in distribution network. *IET Generation, Transmission and Distribution*, **2020**, 14, 6476-6483	2.5	2
334	A State-of-the-Art Review on Solar-Powered Energy-Efficient PMSM Drive Smart Electric Vehicle for Sustainable Development. *Green Energy and Technology*, **2020**, 231-258	0.6	2
333	Single-phase hybrid multilevel inverter topology with low switching frequency modulation techniques for lower order harmonic elimination. *IET Power Electronics*, **2020**, 13, 4117-4127	2.2	7
332	Energy management strategy for solid-state transformer-based solar charging station for electric vehicles in smart grids. *IET Renewable Power Generation*, **2020**, 14, 3843-3852	2.9	18
331	Analysis and optimisation of a diesel-PV-wind-electric storage system for a standalone power solution. *IET Renewable Power Generation*, **2020**, 14, 4053-4062	2.9	4
330	Design and Characteristic Investigation of Novel Dual-Stator V-Shaped Magnetic Pole Six-Phase Permanent Magnet Synchronous Generator for Wind Power Application. *Electric Power Components and Systems*, **2020**, 48, 1537-1550	1	2
329	An improved hybrid PV-wind power system with MPPT for water pumping applications. *International Transactions on Electrical Energy Systems*, **2020**, 30, e12210	2.2	14
328	Design and prototyping of single-phase shunt active power filter for harmonics elimination using model predictive current control. *International Transactions on Electrical Energy Systems*, **2020**, 30, e12231	2.2	2
327	Design and implementation of a novel asymmetrical multilevel inverter optimal hardware components. *International Transactions on Electrical Energy Systems*, **2020**, 30, e12201	2.2	16
326	A Modified Step-Up Converter with Small Signal Analysis-Based Controller for Renewable Resource Applications. *Applied Sciences (Switzerland)*, **2020**, 10, 102	2.6	11
325	An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *IEEE Systems Journal*, **2020**, 14, 1218-1229	4.3	107
324	A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. *IEEE Systems Journal*, **2020**, 14, 3334-3342	4.3	37
323	Performance Analysis of APSO and Firefly Algorithm for Short Term Optimal Scheduling of Multi-Generation Hybrid Energy System. *IEEE Access*, **2020**, 8, 177549-177569	3.5	12

322	Design and Implementation of Multilevel Inverters for Fuel Cell Energy Conversion System. *IEEE Access*, **2020**, 8, 183690-183707	3.5	25
321	A New Multilevel Inverter Topology With Reduced Power Components for Domestic Solar PV Applications. *IEEE Access*, **2020**, 8, 187483-187497	3.5	22
320	Triple-Mode Active-Passive Parallel Intermediate Links Converter With High Voltage Gain and Flexibility in Selection of Duty Cycles. *IEEE Access*, **2020**, 8, 134716-134727	3.5	7
319	Optimization configuration of energy storage capacity based on the microgrid reliable output power. *Journal of Energy Storage*, **2020**, 32, 101866	7.8	16
318	A Single-Source High-Gain Switched-Capacitor Multilevel Inverter with Inherent Voltage Balancing **2020**,		2
317	Two-Tier Converter: A New Structure of High Gain DC-DC Converter with Reduced Voltage Stress **2020**,		2
316	Novel Non-Isolated Quad-Switched Inductor Double-Switch Converter for DC Microgrid Application **2020**,		4
315	Hybrid PIPSO-SQP Algorithm for Real Power Loss Minimization in Radial Distribution Systems with Optimal Placement of Distributed Generation. *Sustainability*, **2020**, 12, 5787	3.6	8
314	Comparative Study of Cavitation Problem Detection in Pumping System Using SVM and K-Nearest Neighbour Method **2020**,		2
313	Dynamic Voltage Restorer (DVR): A Comprehensive Review of Topologies, Power Converters, Control Methods, and Modified Configurations. *Energies*, **2020**, 13, 4152	3.1	21
312	Real-Time Processor-in-Loop Investigation of a Modified Non-Linear State Observer Using Sliding Modes for Speed Sensorless Induction Motor Drive in Electric Vehicles. *Energies*, **2020**, 13, 4212	3.1	3
311	Internet of things augmented a novel PSO-employed modified zeta converter-based photovoltaic maximum power tracking system: hardware realisation. *IET Power Electronics*, **2020**, 13, 2775-2781	2.2	29
310	New CUK□EPIC converter based photovoltaic power system with hybrid GSA□PSO algorithm employing MPPT for water pumping applications. *IET Power Electronics*, **2020**, 13, 2824-2830	2.2	42
309	. *IEEE Access*, **2020**, 8, 178130-178166	3.5	32
308	False Data Injection Attack Detection based on Hilbert-Huang Transform in AC Smart Islands. *IEEE Access*, **2020**, 8, 179002-179017	3.5	15
307	Investigation on Sizing of Voltage Source for a Battery Energy Storage System in Microgrid With Renewable Energy Sources. *IEEE Access*, **2020**, 8, 188861-188874	3.5	16
306	. *IEEE Access*, **2020**, 8, 161787-161804	3.5	1
305	Energy Framework and Policy Direction Guidelines: Ghana 2017□2050 Perspectives. *IEEE Access*, **2020**, 8, 152851-152869	3.5	3

304	Energy Coordination of EV for Optimal Utilization in Smart Grid based on Uncertainty Modelling **2020**,		1
303	A Generalized Multilevel Inverter Topology With Reduction of Total Standing Voltage. *IEEE Access*, **2020**, 8, 168941-168950	3.5	8
302	Power Loss Analysis of Solar Photovoltaic Integrated Model Predictive Control Based On-Grid Inverter. *Energies*, **2020**, 13, 4669	3.1	4
301	Intelligent Hybrid Battery Management System for Electric Vehicle **2020**, 179-206		3
300	A Comprehensive Study on Various Topologies of Permanent Magnet Motor Drives for Electric Vehicles Application **2020**, 207-217		1
299	A New Approach for Flux Computation Using Intelligent Technique for Direct Flux Oriented Control of Asynchronous Motor **2020**, 219-232		
298	A Review on Isolated DC□DC Converters Used in Renewable Power Generation Applications **2020**, 233-240		0
297	Basics of Vector Control of Asynchronous Induction Motor and Introduction to Fuzzy Controller **2020**, 241-258		
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