Saad Mekhilef

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

545 papers	21,345 citations	74 h-index	133 g-index
640 ext. papers	27,713 ext. citations	5.1 avg, IF	7.81 L-index

#	Paper	IF	Citations
545	Simple Lossless Inductive Snubbers-Assisted Series Load Resonant Inverter Operating under ZCS-PDM Scheme for High-Frequency Induction Heating Fixed Roller. *Applied Sciences (Switzerland)*, **2022**, 12, 1122	2.6	1
544	Optimized Support Vector Regression-Based Model for Solar Power Generation Forecasting on the Basis of Online Weather Reports. *IEEE Access*, **2022**, 10, 15594-15604	3.5	
543	Machine learning algorithms used for short-term PV solar irradiation and temperature forecasting at microgrid **2022**, 1-17		
542	Generators revenue augmentation in highly penetrated renewable M2M coordinated power systems **2022**, 19-31		
541	Islanding detection techniques for grid-connected photovoltaic systems-A review. *Renewable and Sustainable Energy Reviews*, **2022**, 154, 111854	16.2	7
540	Performance evaluation of metaheuristic techniques for optimal sizing of a stand-alone hybrid PV/wind/battery system. *Applied Energy*, **2022**, 305, 117823	10.7	11
539	High-Efficiency Long-Distance Wireless Power Transfer using BaO and GaN Magnetron's Cathode. *IEEE Transactions on Industry Applications*, **2022**, 1-1	4.3	
538	Wide Power Dynamic Range CMOS RF-DC Rectifier for RF Energy Harvesting System: A Review. *IEEE Access*, **2022**, 10, 23948-23963	3.5	6
537	Power Electronics for Renewable Energy Systems **2022**, 81-117		0
536	A Review on Global Emissions by E-Products Based Waste: Technical Management for Reduced Effects and Achieving Sustainable Development Goals. *Sustainability*, **2022**, 14, 4036	3.6	1
535	An Hour-Ahead PV Power Forecasting Method Based on an RNN-LSTM Model for Three Different PV Plants. *Energies*, **2022**, 15, 2243	3.1	3
534	Estimation of Parameters of Different Equivalent Circuit Models of Solar Cells and Various Photovoltaic Modules Using Hybrid Variants of Honey Badger Algorithm and Artificial Gorilla Troops Optimizer. *Mathematics*, **2022**, 10, 1057	2.3	4
533	Energy policies shaping the solar photovoltaics business models in Malaysia with some insights on Covid-19 pandemic effect. *Energy Policy*, **2022**, 164, 112918	7.2	2
532	Integration of hydrogen technology and energy management comparison for DC-Microgrid including renewable energies and energy storage system. *Sustainable Energy Technologies and Assessments*, **2022**, 52, 102121	4.7	1
531	Hybrid islanding detection technique for distribution network considering the dynamic behavior of power and load. *International Journal of Circuit Theory and Applications*, **2022**, 50, 1317-1341	2	0
530	A Comparative Harmonic Suppression Analysis of Single Phase Half Bridge Grid Connected Inverter in Rotatory Frame of Reference with Integral Control Strategy. *Lecture Notes in Electrical Engineering*, **2022**, 365-375	0.2	
529	Photovoltaic Performance Using Modify Back Propagation Neural Network Based On 3 Different Solar Panels. *IOP Conference Series: Earth and Environmental Science*, **2022**, 1008, 012010	0.3	

528	Analysis and Design of Series-LC-Switch Capacitor Multistage High Gain DC-DC Boost Converter for Electric Vehicle Applications. *Sustainability*, **2022**, 14, 4495	3.6	2
527	Compact Quadratic Boost Switched-Capacitor Inverter. *IEEE Transactions on Industry Applications*, **2022**, 1-1	4.3	0
526	Interleaved step-up soft-switching DC-DC Boost converter without auxiliary switches. *Energy Reports*, **2022**, 8, 6499-6511	4.6	3
525	Predictive Current Control for Three-Level Four-Leg Indirect Matrix Converter under Unbalanced Input Voltage. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2022**, 1-1	5.6	0
524	A 9 and 13-Level Switched-Capacitor-Based Multilevel Inverter with enhanced Self-Balanced Capacitor Voltage Capability. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2022**, 1-1	5.6	3
523	Single Diode Solar Cells: Improved Model and Exact Current-Voltage Analytical Solution Based on Lambert's W Function. *Sensors*, **2022**, 22, 4173	3.8	1
522	Fuzzy Logic-Based Direct Power Control Method for PV Inverter of Grid-Tied AC Microgrid without Phase-Locked Loop. *Electronics (Switzerland)*, **2021**, 10, 3095	2.6	1
521	Submodule fault-tolerant control based adaptive carrier-PDPWM for modular multilevel converters. *Energy Reports*, **2021**, 7, 7288-7296	4.6	1
520	Artificial Neural Networks Based Optimization Techniques: A Review. *Electronics (Switzerland)*, **2021**, 10, 2689	2.6	25
519	Predictive Maximum Power Point Tracking for Proton Exchange Membrane Fuel Cell System. *IEEE Access*, **2021**, 9, 157384-157397	3.5	2
518	A multi-objective model predictive current control with two-step horizon for double-stage grid-connected inverter PEMFC system. *International Journal of Hydrogen Energy*, **2021**, 47, 2685-2685	6.7	3
517	A hybrid deep learning method for an hour ahead power output forecasting of three different photovoltaic systems. *Applied Energy*, **2021**, 307, 118185	10.7	5
516	Hybrid Global Maximum Power Tracking Method with Partial Shading Detection Technique for PV Systems. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 1-1	5.6	3
515	. *IEEE Access*, **2021**, 9, 168907-168921	3.5	0
514	Single-Phase Boost Switched-Capacitor Based Multilevel Inverter Topology with Reduced Switching Devices. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 1-1	5.6	6
513	A novel approach for sizing battery storage system for enhancing resilience ability of a microgrid. *International Transactions on Electrical Energy Systems*, **2021**, 31, e13142	2.2	3
512	A New Configuration of Nine-Level Boost Inverter with Reduced Component Count. *E-Prime*, **2021**, 1, 100010		0
511	Space-vector current control of cascaded half-bridge three-phase three-wire voltage source inverter. *IET Power Electronics*, **2021**, 14, 201-210	2.2	1

510	Resilience-oriented service restoration modelling interdependent critical loads in distribution systems with integrated distributed generators. *IET Generation, Transmission and Distribution*, **2021**, 15, 1257-1272	2.5	1
509	Experimental validation of nine-level switched-capacitor inverter topology with high voltage gain. *International Journal of Circuit Theory and Applications*, **2021**, 49, 2479	2	3
508	Accurate Prediction of Hourly Energy Consumption in a Residential Building Based on the Occupancy Rate Using Machine Learning Approaches. *Applied Sciences (Switzerland)*, **2021**, 11, 2229	2.6	3
507	Two novel approaches of adaptive finite-time sliding mode control for a class of single-input multiple-output uncertain nonlinear systems. *IET Cyber-Systems and Robotics*, **2021**, 3, 173-183	1.6	4
506	Maximum power point tracking based on adaptive neuro-fuzzy inference systems for a photovoltaic system with fast varying load conditions. *International Transactions on Electrical Energy Systems*, **2021**, 31, e12904	2.2	5
505	Second-order sliding mode control of wind turbines to enhance the fault-ride through capability under unbalanced grid faults. *International Journal of Circuit Theory and Applications*, **2021**, 49, 1959-1986	2	3
504	Stability assessment and performance analysis of new controller for power quality conditioning in microgrids. *International Transactions on Electrical Energy Systems*, **2021**, 31, e12891	2.2	3
503	An energy balancing strategy for modular multilevel converter based grid-connected photovoltaic systems. *IET Power Electronics*, **2021**, 14, 2115-2126	2.2	2
502	Fixed-Time Adaptive Robust Synchronization with a State Observer of Chaotic Support Structures for Offshore Wind Turbines. *Journal of Control, Automation and Electrical Systems*, **2021**, 32, 942-955	1.5	2
501	A twice boost nine-level switched-capacitor multilevel (2B-9L-SCMLI) inverter with self-voltage balancing capability. *International Journal of Circuit Theory and Applications*, **2021**, 49, 2578	2	3
500	A new family of boost active neutral point clamped inverter topology with reduced switch count. *IET Power Electronics*, **2021**, 14, 1433-1443	2.2	2
499	Current Status, Scenario, and Prospective of Renewable Energy in Algeria: A Review. *Energies*, **2021**, 14, 2354	3.1	9
498	A novel power management strategies in PV-wind-based grid connected hybrid renewable energy system using proportional distribution algorithm. *International Transactions on Electrical Energy Systems*, **2021**, 31, e12931	2.2	1
497	Lithium-ion Battery Model Parameter Identification Using Modified Adaptive Forgetting Factor-Based Recursive Least Square Algorithm **2021**,		2
496	Reliability assessment for DFIG-based WECS considering the impact of 3-phase fault and lightning impulse voltage. *International Transactions on Electrical Energy Systems*, **2021**, 31, e12952	2.2	0
495	An improved power control strategy for grid-connected hybrid microgrid without park transformation and phase-locked loop system. *International Transactions on Electrical Energy Systems*, **2021**, 31, e12922	2.2	2
494	Overview and Exploitation of Haptic Tele-Weight Device in Virtual Shopping Stores. *Sustainability*, **2021**, 13, 7253	3.6	2
493	A new cascaded asymmetrical multilevel inverter based on switched dc voltage sources. *International Journal of Electrical Power and Energy Systems*, **2021**, 128, 106730	5.1	10

492	State and disturbance observers-based chattering-free fixed-time sliding mode control for a class of high-order nonlinear systems. *Advanced Control for Applications*, **2021**, 3, e81	0.9	3
491	An Improved Single-Phase Asymmetrical Multilevel Inverter Structure With Reduced Number of Switches and Higher Power Quality. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 68, 2092-2096	3.5	1
490	A memory-based gravitational search algorithm for solving economic dispatch problem in micro-grid. *Ain Shams Engineering Journal*, **2021**, 12, 1985-1994	4.4	23
489	Bond graph modeling, design and experimental validation of a photovoltaic/fuel cell/ electrolyzer/battery hybrid power system. *International Journal of Hydrogen Energy*, **2021**, 46, 24011-24027	6.7	6
488	Islanding Classification Mechanism for Grid-Connected Photovoltaic Systems. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 1966-1975	5.6	18
487	An Improved Discontinuous Space Vector Modulation for Z-Source Inverter With Reduced Power Losses. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 3479-3488	5.6	5
486	Improved-Team-Game-Optimization-Algorithm-Based Solar MPPT With Fast Convergence Speed and Fast Response to Load Variations. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 7093-7103	8.9	11
485	Single-Phase Step-Up Switched-Capacitor-Based Multilevel Inverter Topology With SHEPWM. *IEEE Transactions on Industry Applications*, **2021**, 57, 3107-3119	4.3	42
484	Progress on the demand side management in smart grid and optimization approaches. *International Journal of Energy Research*, **2021**, 45, 36-64	4.5	43
483	Transmission line fault location by solving line differential equations. *Electric Power Systems Research*, **2021**, 192, 106912	3.5	7
482	Advancement of voltage equalizer topologies for serially connected solar modules as partial shading mitigation technique: A comprehensive review. *Journal of Cleaner Production*, **2021**, 285, 124824	10.3	3
481	A Novel S□□CLCC Compensation for Three-Coil WPT to Improve Misalignment and Energy Efficiency Stiffness of Wireless Charging System. *IEEE Transactions on Power Electronics*, **2021**, 36, 1341-1355	7.2	29
480	Real-time fault detection in PV systems under MPPT using PMU and high-frequency multi-sensor data through online PCA-KDE-based multivariate KL divergence. *International Journal of Electrical Power and Energy Systems*, **2021**, 125, 106457	5.1	16
479	Compact Seven-Level Boost Type Inverter Topology. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 68, 1358-1362	3.5	11
478	Shading fault detection in a grid-connected PV system using vertices principal component analysis. *Renewable Energy*, **2021**, 164, 1527-1539	8.1	15
477	Maximum Power Point Tracking Using Modified Butterfly Optimization Algorithm for Partial Shading, Uniform Shading, and Fast Varying Load Conditions. *IEEE Transactions on Power Electronics* , **2021**, 36, 5569-5581	7.2	41
476	Dual Phase LLC Resonant Converter With Variable Frequency Zero Circulating Current Phase-Shift Modulation for Wide Input Voltage Range Applications. *IEEE Transactions on Power Electronics*, **2021**, 36, 2793-2807	7.2	18
475	A New Coil Structure of Dual Transmitters and Dual Receivers with Integrated Decoupling Coils for Increasing Power Transfer & Misalignment Tolerance of Wireless EV Charging System. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	5

474	Performance Investigation of Deadbeat Predictive Controllers for Three-Level Neutral Point Clamped Inverter. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 1-1	5.6	3
473	Implementation and Analysis of a 15-Level Inverter Topology With Reduced Switch Count. *IEEE Access*, **2021**, 9, 40623-40634	3.5	6
472	Comparative Study for Different Types of MPPT Algorithms Using Direct Control Method. *Lecture Notes in Electrical Engineering*, **2021**, 253-264	0.2	1
471	Fuzzy Approximation-Based Fractional-Order Nonsingular Terminal Sliding Mode Controller for DC-DC Buck Converters. *IEEE Transactions on Power Electronics*, **2021**, 1-1	7.2	4
470	Improved Proportional-Integral Coordinated MPPT Controller with Fast Tracking Speed for Grid-Tied PV Systems under Partially Shaded Conditions. *Sustainability*, **2021**, 13, 830	3.6	4
469	. *IEEE Access*, **2021**, 9, 108754-108771	3.5	1
468	An Improved 15-Level Asymmetrical Multilevel Inverter with Reduced Switch Count. *Lecture Notes in Electrical Engineering*, **2021**, 709-718	0.2	0
467	. *IEEE Transactions on Industry Applications*, **2021**, 1-1	4.3	1
466	. *IEEE Access*, **2021**, 9, 67648-67659	3.5	1
465	Recent trends and review on switched-capacitor-based single-stage boost multilevel inverter. *International Transactions on Electrical Energy Systems*, **2021**, 31, e12730	2.2	12
464	Energy performance investigation of nanofluid-based concentrated photovoltaic / thermal-thermoelectric generator hybrid system. *International Journal of Energy Research*, **2021**, 45, 9039-9057	4.5	11
463	A novel global MPPT technique based on squirrel search algorithm for PV module under partial shading conditions. *Energy Conversion and Management*, **2021**, 230, 113773	10.6	21
462	Asymmetrical multilevel inverter topology with low total standing voltage and reduced switches count. *International Journal of Circuit Theory and Applications*, **2021**, 49, 1757-1775	2	6
461	A grid-tied photovoltaic transformer-less inverter with reduced leakage current. *IOP Conference Series: Earth and Environmental Science*, **2021**, 673, 012016	0.3	1
460	Combined State of Charge and State of Energy Estimation of Lithium-Ion Battery Using Dual Forgetting Factor-Based Adaptive Extended Kalman Filter for Electric Vehicle Applications. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 1200-1215	6.8	29
459	Autonomous Fuzzy Controller Design for the Utilization of Hybrid PV-Wind Energy Resources in Demand Side Management Environment. *Electronics (Switzerland)*, **2021**, 10, 1618	2.6	7
458	A New Multilevel Inverter Topology with Reduced DC Sources. *Energies*, **2021**, 14, 4709	3.1	5
457	A Coordinated Charging Scheduling of Electric Vehicles Considering Optimal Charging Time for Network Power Loss Minimization. *Energies*, **2021**, 14, 5336	3.1	5

456	Dual-axis schedule tracker with an adaptive algorithm for a strong scattering of sunbeam. *Solar Energy*, **2021**, 224, 285-297	6.8	1
455	Optimal control of grid-connected microgrid PV-based source under partially shaded conditions. *Energy*, **2021**, 230, 120649	7.9	6
454	Energy Management System in Microgrids: A Comprehensive Review. *Sustainability*, **2021**, 13, 10492	3.6	10
453	Economical-technical-environmental operation of power networks with wind-solar-hydropower generation using analytic hierarchy process and improved grey wolf algorithm. *Ain Shams Engineering Journal*, **2021**, 12, 2717-2734	4.4	23
452	Cascaded Predictive Flux Control for a 3-L Active NPC Fed IM Drives Without Weighting Factor. *IEEE Transactions on Energy Conversion*, **2021**, 36, 1797-1807	5.4	5
451	A Fast GMPPT Scheme Based on Collaborative Swarm Algorithm for Partially Shaded Photovoltaic System. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 5571-5580	5.6	7
450	Impacts assessment of random solar irradiance and temperature on the cooperation of the energy management with power control of an isolated cluster of DC-Microgrids. *Sustainable Energy Technologies and Assessments*, **2021**, 47, 101484	4.7	1
449	Most Valuable Player Algorithm based Maximum Power Point Tracking for a Partially Shaded PV Generation System. *IEEE Transactions on Sustainable Energy*, **2021**, 12, 1876-1890	8.2	18
448	Improved Social Ski Driver-Based MPPT for Partial Shading Conditions Hybridized With Constant Voltage Method for Fast Response to Load Variations. *IEEE Transactions on Sustainable Energy*, **2021**, 12, 2255-2267	8.2	2
447	Voltage Track Optimizer Based Maximum Power Point Tracker Under Challenging Partially Shaded Photovoltaic Systems. *IEEE Transactions on Power Electronics*, **2021**, 36, 13817-13825	7.2	2
446	Increasing Voltage Support Using Smart Power Converter Based Energy Storage System and Load Control. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 12364-12374	8.9	2
445	Logarithmic PSO Based Global/Local Maximum Power Point Tracker for Partially Shaded Photovoltaic Systems. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 1-1	5.6	8
444	A Day-Ahead Power Output Forecasting of Three PV Systems Using Regression, Machine Learning and Deep Learning Techniques. *Studies in Infrastructure and Control*, **2021**, 1-14		1
443	Economic and Environmental Analysis of a Solar-Powered EV Charging System in India: A Case Study. *Lecture Notes in Electrical Engineering*, **2021**, 301-315	0.2	1
442	Asynchronous Particle Swarm Optimization-Genetic Algorithm (APSO-GA) based Selective Harmonic Elimination in a Cascaded H-Bridge Multilevel Inverter. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	30
441	A Review on Primary and Secondary Controls of Inverter-interfaced Microgrid. *Journal of Modern Power Systems and Clean Energy*, **2021**, 9, 969-985	4	5
440	Islanding Detection Review Using Intelligence Classifier in Distribution Network. *Lecture Notes in Electrical Engineering*, **2021**, 317-347	0.2	1
439	Analysis and Small Signal Modeling of Five-Level Series Resonant Inverter. *IEEE Access*, **2021**, 9, 109384-109395	3.9	2

438	Solar tracker transcript A review. *International Transactions on Electrical Energy Systems*, **2021**, 31,	2.2	4
437	Optimization of Antireflection Coating Design Using PC1D Simulation for c-Si Solar Cell Application. *Electronics (Switzerland)*, **2021**, 10, 3132	2.6	0
436	A Novel Hybrid Feature Selection Method for Day-Ahead Electricity Price Forecasting. *Energies*, **2021**, 14, 8455	3.1	2
435	Optimal Allocation and Economic Analysis of Battery Energy Storage Systems: Self-Consumption Rate and Hosting Capacity Enhancement for Microgrids with High Renewable Penetration. *Sustainability*, **2020**, 12, 10144	3.6	14
434	A Review of Optimal Charging Strategy for Electric Vehicles under Dynamic Pricing Schemes in the Distribution Charging Network. *Sustainability*, **2020**, 12, 10160	3.6	14
433	Optimized Single-Axis Schedule Solar Tracker in Different Weather Conditions. *Energies*, **2020**, 13, 5226	3.1	18
432	Fuzzy Adaptive Fixed-time Sliding Mode Control with State Observer for A Class of High-order Mismatched Uncertain Systems. *International Journal of Control, Automation and Systems*, **2020**, 18, 2492-2508	2.9	20
431	Optimal Design of Photovoltaic Power Plant Using Hybrid Optimisation: A Case of South Algeria. *Energies*, **2020**, 13, 2776	3.1	8
430	Chattering-Free Trajectory Tracking Robust Predefined-Time Sliding Mode Control for a Remotely Operated Vehicle. *Journal of Control, Automation and Electrical Systems*, **2020**, 31, 1177-1195	1.5	6
429	Dual asymmetrical dc voltage source based switched capacitor boost multilevel inverter topology. *IET Power Electronics*, **2020**, 13, 1481-1486	2.2	23
428	Dual input switched-capacitor-based single-phase hybrid boost multilevel inverter topology with reduced number of components. *IET Power Electronics*, **2020**, 13, 881-891	2.2	31
427	Wave Excitation Force Estimation Using an Electrical-Based Extended Kalman Filter for Point Absorber Wave Energy Converters. *IEEE Access*, **2020**, 8, 49823-49836	3.5	4
426	Modeling of PV system and parameter extraction based on experimental data: Review and investigation. *Solar Energy*, **2020**, 199, 742-760	6.8	51
425	Novel technique for transmission line parameters estimation using synchronised sampled data. *IET Generation, Transmission and Distribution*, **2020**, 14, 506-515	2.5	7
424	Adaptive Carrier-Based PDPWM Control for Modular Multilevel Converter With Fault-Tolerant Capability. *IEEE Access*, **2020**, 8, 26739-26748	3.5	10
423	Design and stability analysis of interleaved flyback converter control using Lyapunov direct method with FPGA implementation. *Electrical Engineering*, **2020**, 102, 1651-1665	1.5	1
422	New grid synchronization and power control scheme of doubly-fed induction generator based wind turbine system using fuzzy logic control.. *Computers and Electrical Engineering*, **2020**, 84, 106647	4.3	13
421	New Switched-Capacitor based Boost Seven-Level ANPC (7L-ANPC) Boost Inverter Topology **2020**,		2

420	Medium Voltage Large-Scale Grid-Connected Photovoltaic Systems Using Cascaded H-Bridge and Modular Multilevel Converters: A Review. *IEEE Access*, **2020**, 8, 223686-223699	3.5	19
419	Switched-Capacitor Based Seven-Level Triple Voltage Gain Boost Inverter (7L-TVG-BI) **2020**,		4
418	High-Efficiency Magnetron using GaN Cathode for High Frequency and Low Power Modulated Microwave Generation **2020**,		2
417	Hybrid Islanding Detection Technique for Malaysian Power Distribution System **2020**,		3
416	Advanced Control Strategy with Voltage Sag Classification for Single-Phase Grid-Connected Photovoltaic System. *IEEE Journal of Emerging and Selected Topics in Industrial Electronics*, **2020**, 1-1	2.6	17
415	Switched-capacitor-based boost multilevel inverter topology with higher voltage gain. *IET Power Electronics*, **2020**, 13, 3209-3212	2.2	9
414	Voltage control using smart transformer via dynamic optimal setpoints and limit tolerance in a residential distribution network with PV sources. *IET Generation, Transmission and Distribution*, **2020**, 14, 5143-5151	2.5	4
413	The efficiency of the on-grid solar power plant in the Chechen Republic. *IOP Conference Series: Earth and Environmental Science*, **2020**, 578, 012044	0.3	1
412	Combined SOC and SOE Estimation of Lithium-ion battery for Electric Vehicle Applications **2020**,		2
411	A Reduced Switch Count Boost Inverter (RSC- BI) Topology with Triple Voltage Gain **2020**,		2
410	Seven-Level Switched-Capacitor Based Multilevel Inverter With Lesser Number of Power Electronic Components and Reduced Voltage Stress **2020**,		1
409	Modified deterministic Jaya (DM-Jaya)-based MPPT algorithm under partially shaded conditions for PV system. *IET Power Electronics*, **2020**, 13, 4625-4632	2.2	11
408	New switched-capacitor-based boost inverter topology with reduced switch count. *Journal of Power Electronics*, **2020**, 20, 926-937	0.9	7
407	Induction motor fault detection based on multi-sensory control and wavelet analysis. *IET Electric Power Applications*, **2020**, 14, 2051-2061	1.8	3
406	7L-SCBI topology with minimal semiconductor device count. *IET Power Electronics*, **2020**, 13, 3199-3203	2.2	10
405	Reduced switch count-based N -level boost inverter topology for higher voltage gain. *IET Power Electronics*, **2020**, 13, 3505-3509	2.2	13
404	Design and implementation of a new unity gain nine-level active neutral point clamped multilevel inverter topology. *IET Power Electronics*, **2020**, 13, 3204-3208	2.2	10
403	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

402	High step-up interleaved zero-voltage transition DCDC converter with coupled inductors. *IET Power Electronics*, **2020**, 13, 4518-4531	2.2	4
401	Recent developments of MPPT techniques for PV systems under partial shading conditions: a critical review and performance evaluation. *IET Renewable Power Generation*, **2020**, 14, 3401-3417	2.9	12
400	Solar chimney power plant and its correlation with ambient wind effect. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 649-668	4.1	13
399	A Single DC Source Nine-Level Switched-Capacitor Boost Inverter Topology With Reduced Switch Count. *IEEE Access*, **2020**, 8, 5840-5851	3.5	36
398	Present Status and Potential of Biomass Energy in Pakistan Based on Existing and Future Renewable Resources. *Sustainability*, **2020**, 12, 249	3.6	28
397	. *IEEE Access*, **2020**, 8, 201835-201846	3.5	14
396	Experimental investigation of power management and control of a PV/wind/fuel cell/battery hybrid energy system microgrid. *International Journal of Hydrogen Energy*, **2020**, 45, 29110-29122	6.7	49
395	Advancement of lithium-ion battery cells voltage equalization techniques: A review. *Renewable and Sustainable Energy Reviews*, **2020**, 134, 110227	16.2	34
394	Network reconfiguration and DG output including real time optimal switching sequence for system improvement. *Australian Journal of Electrical and Electronics Engineering*, **2020**, 17, 157-172	0.6	1
393	A Novel Switched-Capacitor Multilevel Inverter Topology for Energy Storage and Smart Grid Applications. *Electronics (Switzerland)*, **2020**, 9, 1703	2.6	13
392	Classical Control for Unequal DC Sources Five-Level Inverter-Based SHE Technique. *Energies*, **2020**, 13, 4715	3.1	
391	. *IEEE Access*, **2020**, 8, 188726-188741	3.5	20
390	A fast and accurate generalized analytical approach for PV arrays modeling under partial shading conditions. *Solar Energy*, **2020**, 208, 753-765	6.8	14
389	An Integrated Approach to Optimal Charging Scheduling of Electric Vehicles Integrated with Improved Medium-Voltage Network Reconfiguration for Power Loss Minimization. *Sustainability*, **2020**, 12, 9211	3.6	10
388	Optimization of distributed generation size based on line sensitivity using transmission congestion cost. *International Transactions on Electrical Energy Systems*, **2020**, 31, e12695	2.2	1
387	Performance assessment of three grid-connected photovoltaic systems with combined capacity of 6.575 kWp in Malaysia. *Journal of Cleaner Production*, **2020**, 277, 123242	10.3	13
386	Mitigating Power Fluctuations for Energy Storage in Wind Energy Conversion System Using Supercapacitors. *IEEE Access*, **2020**, 8, 189747-189760	3.5	6
385	Chattering-free fixed-time sliding mode control for bilateral teleoperation under unknown time-varying delay via disturbance and state observers. *Advanced Control for Applications*, **2020**, 2, e52	0.9	2

384	Assessment of maximum power point trackers performance using direct and indirect control methods. *International Transactions on Electrical Energy Systems*, **2020**, 30, e12565	2.2	6
383	A Sustainable Distributed Building Integrated Photo-Voltaic System Architecture with a Single Radial Movement Optimization Based MPPT Controller. *Sustainability*, **2020**, 12, 6687	3.6	1
382	Chattering-Free Adaptive Finite-Time Sliding Mode Control for Trajectory Tracking of MEMS Gyroscope. *Automatic Control and Computer Sciences*, **2020**, 54, 335-345	0.7	1
381	An improved asymmetrical multilevel inverter topology with reduced semiconductor device count. *International Transactions on Electrical Energy Systems*, **2020**, 30, e12587	2.2	12
380	A Novel Multilevel DC-Link Three-Phase T-Type Inverter. *Energies*, **2020**, 13, 4186	3.1	0
379	A New Eight Switch Seven Level Boost Active Neutral Point Clamped (8S-7L-BANPC) Inverter. *IEEE Access*, **2020**, 8, 203972-203981	3.5	8
378	**2020**,		2
377	DQ-axis Synchronous Reference Frame based P-Q Control of Grid Connected AC Microgrid **2020**,		1
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