

# Umashankar Subramaniam

## 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.

143  
papers

1,688  
citations

21  
h-index

35  
g-index

158  
ext. papers

2,631  
ext. citations

3.1  
avg, IF

5.71  
L-index

#	Paper	IF	Citations
143	. <i>IEEE Access</i> , <b>2022</b> , 10, 12742-12752	3.5	
142	COVID-19 Detection Based on Lung Ct Scan Using Deep Learning Techniques.. <i>Computational and Mathematical Methods in Medicine</i> , <b>2022</b> , 2022, 7672196	2.8	13
141	Double-switch switched-inductor converter with minimal switch voltage stress for renewable energy conversion. <i>Computers and Electrical Engineering</i> , <b>2022</b> , 98, 107682	4.3	0
140	A Practical Approach for Predicting Power in a Small-Scale Off-Grid Photovoltaic System using Machine Learning Algorithms. <i>International Journal of Photoenergy</i> , <b>2022</b> , 2022, 1-21	2.1	5
139	Efficient Multi-Phase Converter for E-Mobility. <i>World Electric Vehicle Journal</i> , <b>2022</b> , 13, 67	2.5	0
138	An Energy-Efficient Start-Up Strategy for Large Variable Speed Hydro Pump Turbine Equipped with Doubly Fed Asynchronous Machine. <i>Energies</i> , <b>2022</b> , 15, 3138	3.1	0
137	An Expert System for COVID-19 Infection Tracking in Lungs Using Image Processing and Deep Learning Techniques. <i>BioMed Research International</i> , <b>2021</b> , 2021, 1896762	3	9
136	A Comprehensive Review on Sustainable Aspects of Big Data Analytics for Smart Grid. <i>Sustainability</i> , <b>2021</b> , 13, 13322	3.6	5
135	Design of Efficient Off-Grid Solar Photovoltaic Water Pumping System Based on Improved Fractional Open Circuit Voltage MPPT Technique. <i>International Journal of Photoenergy</i> , <b>2021</b> , 2021, 1-18 <sup>2.1</sup>	2.1	3
134	Application of Machine Learning Algorithm for Anomaly Detection for Industrial Pumps. <i>Studies in Computational Intelligence</i> , <b>2021</b> , 237-263	0.8	2
133	An Investigation and Design of Symmetric and Asymmetric Inverter for Various Applications <b>2021</b> , 473-492		0
132	Stability assessment and performance analysis of new controller for power quality conditioning in microgrids. <i>International Transactions on Electrical Energy Systems</i> , <b>2021</b> , 31, e12891	2.2	3
131	A Novel Deep Learning Based Model for Tropical Intensity Estimation and Post-Disaster Management of Hurricanes. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4129	2.6	3
130	A Review on Effective Use of Daylight Harvesting Using Intelligent Lighting Control Systems for Sustainable Office Buildings in India. <i>Sustainability</i> , <b>2021</b> , 13, 4973	3.6	6
129	Novel Multi-Time Scale Deep Learning Algorithm for Solar Irradiance Forecasting. <i>Energies</i> , <b>2021</b> , 14, 2404	3.1	13
128	Optimal Dispatch Strategy of Virtual Power Plant for Day-Ahead Market Framework. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3814	2.6	8
127	Diagnosis of Cervical Cancer based on Ensemble Deep Learning Network using Colposcopy Images. <i>BioMed Research International</i> , <b>2021</b> , 2021, 5584004	3	25

126	Influence of Geometrical Changes in an Adiabatic Portion on the Heat Transfer Performance of a Two-Phase Closed Thermosiphon System. <i>Energies</i> , <b>2021</b> , 14, 3070	3.1	1
125	Spider Community Optimization Algorithm to Determine UPFC Optimal Size and Location for Improve Dynamic Stability <b>2021</b> ,		4
124	Intelligent optimization for charging scheduling of electric vehicle using exponential Harris Hawks technique. <i>International Journal of Intelligent Systems</i> , <b>2021</b> , 36, 5816-5844	8.4	3
123	Solar PV network installation standards and cost estimation guidelines for smart cities. <i>AEJ - Alexandria Engineering Journal</i> , <b>2021</b> , 61, 1277-1277	6.1	4
122	Cybernetics approaches in intelligent systems for crops disease detection with the aid of IoT. <i>International Journal of Intelligent Systems</i> , <b>2021</b> , 36, 6550-6580	8.4	1
121	Improved Perturb and Observation Maximum Power Point Tracking Technique for Solar Photovoltaic Power Generation Systems. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 3024-3035	4.3	23
120	Performance assessment of free standing and building integrated grid connected photovoltaic system for southern part of India. <i>Building Services Engineering Research and Technology</i> , <b>2021</b> , 42, 237-248	2.3	11
119	Trinary Hybrid Cascaded H-Bridge Multilevel Inverter-Based Grid-Connected Solar Power Transfer System Supporting Critical Load. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 4116-4125	4.3	2
118	Small-Signal Stability Analysis for Microgrids Under Uncertainty Using MALANN Control Technique. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 3797-3807	4.3	1
117	Robust Queen Bee Assisted Genetic Algorithm (QBGA) Optimized Fractional Order PID (FOPID) Controller for Not Necessarily Minimum Phase Power Converters. <i>IEEE Access</i> , <b>2021</b> , 9, 93331-93337	3.5	2
116	. <i>IEEE Access</i> , <b>2021</b> , 9, 88069-88084	3.5	2
115	Performance Enhancement of PV System Configurations Under Partial Shading Conditions Using MS Method. <i>IEEE Access</i> , <b>2021</b> , 9, 56630-56644	3.5	9
114	Analysis of Fractional Order Sliding Mode Control in a D-STATCOM Integrated Power Distribution System. <i>IEEE Access</i> , <b>2021</b> , 9, 70337-70352	3.5	4
113	Real-Time Implementation of Extended Kalman Filter Observer With Improved Speed Estimation for Sensorless Control. <i>IEEE Access</i> , <b>2021</b> , 9, 50452-50465	3.5	6
112	Model predictive controlBased distributed control algorithm for bidirectional interlinking converter in hybrid microgrids. <i>International Transactions on Electrical Energy Systems</i> , <b>2021</b> , 31, e12817	2.2	2
111	Assessing Finite Control Set Model Predictive Speed Controlled PMSM Performance for Deployment in Electric Vehicles. <i>World Electric Vehicle Journal</i> , <b>2021</b> , 12, 41	2.5	1
110	A Review on Numerical Approach to Achieve Building Energy Efficiency for Energy, Economy and Environment (3E) Benefit. <i>Energies</i> , <b>2021</b> , 14, 4487	3.1	6
109	Sensorless parameter estimation of VFD based cascade centrifugal pumping system using automatic pump curve adaption method. <i>Energy Reports</i> , <b>2021</b> , 7, 453-466	4.6	1

108	A grasshopper optimization algorithm for optimal short-term hydrothermal scheduling. <i>Energy Reports</i> , <b>2021</b> , 7, 314-323	4.6	9
107	. <i>IEEE Access</i> , <b>2021</b> , 9, 73433-73452	3.5	6
106	A New Hybrid Zeta-Boost Converter With Active Quad Switched Inductor for High Voltage Gain. <i>IEEE Access</i> , <b>2021</b> , 9, 20022-20034	3.5	2
105	A Novel Hybrid Feature Selection Method for Day-Ahead Electricity Price Forecasting. <i>Energies</i> , <b>2021</b> , 14, 8455	3.1	2
104	An outlook on endangering grid security in India due to implementation challenges of low voltage ride through protection in wind turbines. <i>International Transactions on Electrical Energy Systems</i> , <b>2020</b> , 30, e12672	2.2	0
103	An Effective Solar Photovoltaic Module Parameter Estimation Technique for Single-Diode Model. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 937, 012014	0.4	6
102	A New Approach to Optimal Location and Sizing of DSTATCOM in Radial Distribution Networks Using Bio-Inspired Cuckoo Search Algorithm. <i>Energies</i> , <b>2020</b> , 13, 4615	3.1	17
101	EFFECT OF MOTOR VIBRATION PROBLEMS ON POWER QUALITY OF WATER PUMPING AT RESIDENCY. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 937, 012019	0.4	1
100	Leakage current repression and real-time spectrum analysis with chirp Z-transform for a novel high-efficiency PV-based inverter applicable in micro-grids. <i>Electrical Engineering</i> , <b>2020</b> , 102, 2041-2057	1.5	2
99	Investigation of the Thermal Loading and Random Vibration Influences on Fatigue Life of the Solder Joints for a Metal-Oxide-Semiconductor-Field-Effect Transistor in a DC-DC Power Boost Converter. <i>IEEE Access</i> , <b>2020</b> , 8, 64011-64019	3.5	2
98	Analysis and Investigation of Hybrid DCDC Non-Isolated and Non-Inverting Nx Interleaved Multilevel Boost Converter (Nx-IMBC) for High Voltage Step-Up Applications: Hardware Implementation. <i>IEEE Access</i> , <b>2020</b> , 8, 87309-87328	3.5	16
97	Implementation of Designed PV Integrated Controlled Converter System. <i>IEEE Access</i> , <b>2020</b> , 8, 100905-100915	3.5	0
96	. <i>IEEE Access</i> , <b>2020</b> , 8, 115685-115693	3.5	0
95	EPAW: Efficient Privacy Preserving Anonymous Mutual Authentication Scheme for Wireless Body Area Networks (WBANs). <i>IEEE Access</i> , <b>2020</b> , 8, 48576-48586	3.5	23
94	Evaluation of Mathematical Model to Characterize the Performance of Conventional and Hybrid PV Array Topologies under Static and Dynamic Shading Patterns. <i>Energies</i> , <b>2020</b> , 13, 3216	3.1	40
93	. <i>IEEE Access</i> , <b>2020</b> , 8, 116796-116811	3.5	6
92	Exergy analysis of thin-film solar PV module in ground-mount, floating and submerged installation methods. <i>Case Studies in Thermal Engineering</i> , <b>2020</b> , 21, 100686	5.6	18
91	Combined Harmonic Reduction and DC Voltage Regulation of A Single DC Source Five-Level Multilevel Inverter for Wind Electric System. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 979	2.6	4

90	Binary Hybrid Multilevel Inverter-Based Grid Integrated Solar Energy Conversion System With Damped SOGI Control. <i>IEEE Access</i> , <b>2020</b> , 8, 37214-37228	3.5	15
89	A Hybrid PV-Battery System for ON-Grid and OFF-Grid Applications Controller-In-Loop Simulation Validation. <i>Energies</i> , <b>2020</b> , 13, 755	3.1	22
88	Experimental Investigations Conducted for the Characteristic Study of OM29 Phase Change Material and Its Incorporation in Photovoltaic Panel. <i>Energies</i> , <b>2020</b> , 13, 897	3.1	12
87	Influence of a Proposed Switching Method on Reliability and Total Harmonic Distortion of the Quasi Z-Source Inverters. <i>IEEE Access</i> , <b>2020</b> , 8, 33088-33100	3.5	6
86	A State-of-the-Art Review on Conducted Electromagnetic Interference in Non-Isolated DC to DC Converters. <i>IEEE Access</i> , <b>2020</b> , 8, 2564-2577	3.5	9
85	An Original Hybrid Multilevel DC-AC Converter Using Single-Double Source Unit for Medium Voltage Applications: Hardware Implementation and Investigation. <i>IEEE Access</i> , <b>2020</b> , 8, 71291-71301	3.5	7
84	A High Gain DC-DC Converter with Grey Wolf Optimizer Based MPPT Algorithm for PV Fed BLDC Motor Drive. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2797	2.6	14
83	Infrared Thermography Based Defects Testing of Solar Photovoltaic Panel with Fuzzy Rule-Based Evaluation. <i>Energies</i> , <b>2020</b> , 13, 1343	3.1	14
82	Corrections to An Improved Harmonics Mitigation Scheme for a Modular Multilevel Converter [2019 147244-147255]. <i>IEEE Access</i> , <b>2020</b> , 8, 65351-65351	3.5	
81	Energy Cost Optimization of Hybrid Renewables Based V2G Microgrid Considering Multi Objective Function by Using Artificial Bee Colony Optimization. <i>IEEE Access</i> , <b>2020</b> , 8, 62076-62093	3.5	24
80	Identification of Water Hammering for Centrifugal Pump Drive Systems. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2683	2.6	8
79	Trusted Simulation Using Proteus Model for a PV System: Test Case of an Improved HC MPPT Algorithm. <i>Energies</i> , <b>2020</b> , 13, 1943	3.1	5
78	Power conditioning of standalone Photo-voltaic system with BLDC motor by Negative-Output Luo Converter <b>2020</b> ,		2
77	Torque Ripple Reduction in PMSG for Standalone Wind Energy System Using Three Level DTC with A Dither Signal. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 937, 012012	0.4	
76	Broken rotor bar fault detection using Hilbert transform and neural networks applied to direct torque control of induction motor drive. <i>IET Power Electronics</i> , <b>2020</b> , 13, 3328-3338	2.2	9
75	Single-phase hybrid multilevel inverter topology with low switching frequency modulation techniques for lower order harmonic elimination. <i>IET Power Electronics</i> , <b>2020</b> , 13, 4117-4127	2.2	7
74	A Modified Step-Up Converter with Small Signal Analysis-Based Controller for Renewable Resource Applications. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 102	2.6	11
73	Frame-Angle Controlled Wavelet Modulated Inverter and Self-Recurrent Wavelet Neural Network-Based Maximum Power Point Tracking for Wind Energy Conversion System. <i>IEEE Access</i> , <b>2020</b> , 8, 171373-171386	3.5	3

72	COVID-19: Impact analysis and recommendations for power sector operation. <i>Applied Energy</i> , <b>2020</b> , 279, 115739	10.7	107
71	A novel review on optimization techniques used in wind farm modelling. <i>Renewable Energy Focus</i> , <b>2020</b> , 35, 84-96	5.4	15
70	Quality Management Practices of Food Manufacturers: A Comparative Study between Small, Medium and Large Companies in Malaysia. <i>Sustainability</i> , <b>2020</b> , 12, 7725	3.6	3
69	SWOT analysis: A framework for comprehensive evaluation of drivers and barriers for renewable energy development in significant countries. <i>Energy Reports</i> , <b>2020</b> , 6, 1838-1864	4.6	63
68	Forecasting of the SARS-CoV-2 epidemic in India using SIR model, flatten curve and herd immunity. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2020</b> , 1-9	3.7	10
67	A Single-Source High-Gain Switched-Capacitor Multilevel Inverter with Inherent Voltage Balancing <b>2020</b> ,		2
66	. <i>IEEE Access</i> , <b>2020</b> , 8, 145936-145949	3.5	4
65	Comparative Study of Cavitation Problem Detection in Pumping System Using SVM and K-Nearest Neighbour Method <b>2020</b> ,		2
64	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. <i>Energies</i> , <b>2020</b> , 13, 4212	3.1	3
63	Experimental analysis of PQ parameter estimation of VFD drives. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 937, 012042	0.4	1
62	Analysis of Optimal Deployment of Several DGs in Distribution Networks Using Plant Propagation Algorithm. <i>IEEE Access</i> , <b>2020</b> , 8, 175546-175562	3.5	11
61	Investigation on Sizing of Voltage Source for a Battery Energy Storage System in Microgrid With Renewable Energy Sources. <i>IEEE Access</i> , <b>2020</b> , 8, 188861-188874	3.5	16
60	A Holistic Review of the Present and Future Drivers of the Renewable Energy Mix in Maharashtra, State of India. <i>Sustainability</i> , <b>2020</b> , 12, 6596	3.6	34
59	Design and Development of Non-Isolated Modified SEPIC DC-DC Converter Topology for High-Step-Up Applications: Investigation and Hardware Implementation. <i>Energies</i> , <b>2020</b> , 13, 3960	3.1	8
58	. <i>IEEE Access</i> , <b>2020</b> , 8, 197730-197744	3.5	9
57	A new metaphor-less algorithms for the photovoltaic cell parameter estimation. <i>Optik</i> , <b>2020</b> , 208, 164552-5		59
56	Investigations on EMI Mitigation Techniques: Intent to Reduce Grid-Tied PV Inverter Common Mode Current and Voltage. <i>Energies</i> , <b>2019</b> , 12, 3395	3.1	4
55	A Generalized One-Bit Control System Using a $\Delta\Sigma$ -Quantizer. <i>IEEE Access</i> , <b>2019</b> , 7, 117009-117018		18

54	DC Grid for Domestic Electrification. <i>Energies</i> , <b>2019</b> , 12, 2157	3.1	9
53	Experimental Investigation of Power Signatures for Cavitation and Water Hammer in an Industrial Parallel Pumping System. <i>Energies</i> , <b>2019</b> , 12, 1351	3.1	4
52	Investigations of AC Microgrid Energy Management Systems Using Distributed Energy Resources and Plug-in Electric Vehicles. <i>Energies</i> , <b>2019</b> , 12, 2834	3.1	6
51	Simulation Tool for Tuning and Performance Analysis of Robust, Tracking, Disturbance Rejection and Aggressiveness Controller. <i>Algorithms</i> , <b>2019</b> , 12, 144	1.8	1
50	An Improved Harmonics Mitigation Scheme for a Modular Multilevel Converter. <i>IEEE Access</i> , <b>2019</b> , 7, 147244-147255	3.5	15
49	Investigation for Performances Comparison PI, Adaptive PI, Fuzzy Speed Control Induction Motor for Centrifugal Pumping Application <b>2019</b> ,		5
48	Optimum battery depth of discharge for off-grid solar PV/battery system. <i>Journal of Energy Storage</i> , <b>2019</b> , 26, 100999	7.8	34
47	Impact of Voltage Variation on Hydroelectric Doubly Fed Machines [An Electro-thermomechanical Investigation <b>2019</b> ,		2
46	Testing of low-voltage ride through capability compliance of wind turbines [A review. <i>International Journal of Ambient Energy</i> , <b>2018</b> , 39, 891-897	2	3
45	Fuzzy-Based Microgrid Energy Management System Using Interleaved Boost Converter and Three-Level NPC Inverter with Improved Grid Voltage Quality. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 325-337	0.2	1
44	Investigations of Microgrid Stability and Optimum Power Sharing Using Robust Control of Grid Tie PV Inverter. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 379-387	0.2	4
43	Three-stage control architecture for cascaded H-Bridge inverters in large-scale PV systems [Real time simulation validation. <i>Applied Energy</i> , <b>2018</b> , 229, 1111-1127	10.7	7
42	Comparative Analysis of Feed-Forward and Synchronous Reference Frame Control-Based Dynamic Voltage Restorer. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 411-420	0.2	1
41	Investigation of Direct Torque Control-Based Synchronous Reluctance Motor Drive for Pumping. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 319-327	0.2	1
40	Investigations and Analysis of PV - Battery based Micro grid Energy Management System. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 22931-22942	1.4	
39	A Buck-Chopper Based Energy Storage System for the Cascaded H-Bridge Inverters in PV Applications. <i>Energy Procedia</i> , <b>2018</b> , 145, 534-541	2.3	3
38	Control Architecture for Cascaded H-Bridge Inverters in Large-Scale PV Systems. <i>Energy Procedia</i> , <b>2018</b> , 145, 549-557	2.3	6
37	Power Quality Performance Analysis of grid tied PV fed Parallel Pumping System under Normal and Vibrating Condition. <i>Energy Procedia</i> , <b>2018</b> , 145, 497-503	2.3	7

36	Investigations of power quality disturbances in a variable speed parallel pumping system with grid tied solar PV. <i>Energy Procedia</i> , <b>2018</b> , 145, 490-496	2.3	3
35	Single phase nine level inverter using single DC source supported by capacitor voltage balancing algorithm. <i>IET Power Electronics</i> , <b>2018</b> , 11, 2319-2329	2.2	15
34	Review on FRT solutions for improving transient stability in DFIG-WTs. <i>IET Renewable Power Generation</i> , <b>2018</b> , 12, 1786-1799	2.9	77
33	Centrifugal Pump Cavitation Detection Using Machine Learning Algorithm Technique <b>2018</b> ,		3
32	Design and Controller-In-Loop Simulations of a Low Cost Two-Stage PV-Simulator. <i>Energies</i> , <b>2018</b> , 11, 2774	3.1	4
31	Intelligence-Based Battery Management and Economic Analysis of an Optimized Dual-Vanadium Redox Battery (VRB) for a Wind-PV Hybrid System. <i>Energies</i> , <b>2018</b> , 11, 2785	3.1	8
30	A comprehensive review on CHB MLI based PV inverter and feasibility study of CHB MLI based PV-STATCOM. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 78, 138-156	16.2	32
29	A Sustainable Solar Photovoltaic Energy System Interfaced with Grid-Tied Voltage Source Converter for Power Quality Improvement. <i>Electric Power Components and Systems</i> , <b>2017</b> , 45, 171-183	1	14
28	Improved Fault Ride Through Capability in DFIG Based Wind Turbines Using Dynamic Voltage Restorer With Combined Feed-Forward and Feed-Back Control. <i>IEEE Access</i> , <b>2017</b> , 5, 20494-20503	3.5	51
27	Power Balancing Control for Grid Energy Storage System in Photovoltaic Applications Real Time Digital Simulation Implementation. <i>Energies</i> , <b>2017</b> , 10, 928	3.1	29
26	Design and Real-Time Simulation of an AC Voltage Regulator Based Battery Charger for Large-Scale PV-Grid Energy Storage Systems. <i>IEEE Access</i> , <b>2017</b> , 5, 25158-25170	3.5	21
25	Improved fault ride through capability of DFIG based wind turbines using synchronous reference frame control based dynamic voltage restorer. <i>ISA Transactions</i> , <b>2017</b> , 70, 465-474	5.5	76
24	Real time simulation of Variable Speed Parallel Pumping system. <i>Energy Procedia</i> , <b>2017</b> , 142, 2102-2108	2.3	11
23	Comparative study of photovoltaic based power converter topologies for pumping applications <b>2017</b> ,		7
22	Integration of Single Phase Reduced Switch Multilevel Inverter Topology for Grid Connected Photovoltaic System. <i>Energy Procedia</i> , <b>2017</b> , 138, 1177-1183	2.3	52
21	FRT Capability in DFIG based Wind Turbines using DVR with Combined Feed-Forward and Feed-Back Control. <i>Energy Procedia</i> , <b>2017</b> , 138, 1184-1189	2.3	6
20	Investigations on performance evaluation of VFD fed PMSM using DTC control strategies for pumping applications <b>2017</b> ,		3
19	Study and Analysis of an Intelligent Microgrid Energy Management Solution with Distributed Energy Sources. <i>Energies</i> , <b>2017</b> , 10, 1419	3.1	26



18	Solar PV-Based VFD Fed Permanent Magnet Synchronous Motor for Pumping System. <i>Advances in Intelligent Systems and Computing</i> , <b>2017</b> , 487-502	0.4	
17	A comprehensive review on energy efficiency enhancement initiatives in centrifugal pumping system. <i>Applied Energy</i> , <b>2016</b> , 181, 495-513	10.7	132
16	Performance Evaluation of Fuzzy DTC based PMSM for Pumping Applications. <i>Indian Journal of Science and Technology</i> , <b>2016</b> , 9,	1	4
15	Comparative evaluation of pulse width modulation techniques on effective DC link voltage utilization of grid connected inverter <b>2016</b> ,		2
14	A simple MPPT algorithm for novel PV power generation system by high output voltage DC-DC boost converter <b>2015</b> ,		28
13	Energy Management of PV Battery Based Microgrid System. <i>Procedia Technology</i> , <b>2015</b> , 21, 103-111		19
12	Modeling and simulation of Incremental conductance MPPT algorithm based solar Photo Voltaic system using CUK converter <b>2013</b> ,		7
11	Cascaded seven level inverter with reduced number of switches using level shifting PWM technique <b>2013</b> ,		16
10	Development of a research platform for power electronic converter modeling in real time F28335 digital simulation applications using eZDSP <b>2013</b> ,		2
9	Dynamic braking of induction motor - Analysis of conventional methods and an efficient multistage braking model <b>2013</b> ,		7
8	Testing and hardware implementation of SPWM inverter using TMSF28335eZDSP <b>2013</b> ,		2
7	Development of a New Research Platform for Electrical Drive System Modelling for Real-Time Digital Simulation Applications. <i>Advances in Power Electronics</i> , <b>2013</b> , 2013, 1-10		
6	A New 7-Level Symmetric Multilevel Inverter with Minimum Number of Switches. <i>ISRN Electronics</i> , <b>2013</b> , 2013, 1-8		15
5	Perturb and observe MPPT algorithm for solar PV systems-modeling and simulation <b>2011</b> ,		45
4	Comparative evaluation of inverter topologies for wind and solar applications <b>2011</b> ,		1
3	Variability Analysis of SBOX With CMOS 45 nm Technology. <i>Wireless Personal Communications</i> ,1	1.9	0
2	Artificial Intelligence and Drones to Combat COVID - 19		6
1	Artificial Neural Network based Solar Energy Integrated Unified Power Quality Conditioner. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> ,1-25	1.6	2

