

Moumita Das

List of Publications by Citations

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121
papers

3,880
citations

28
h-index

61
g-index

145
ext. papers

5,125
ext. citations

5.4
avg, IF

6.29
L-index

#	Paper	IF	Citations
121	MATLAB-Based Modeling to Study the Effects of Partial Shading on PV Array Characteristics. <i>IEEE Transactions on Energy Conversion</i> , 2008 , 23, 302-310	5.4	73 ⁰
120	Maximum Power Point Tracking Scheme for PV Systems Operating Under Partially Shaded Conditions. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 1689-1698	8.9	637
119	A Single-Stage Grid Connected Inverter Topology for Solar PV Systems With Maximum Power Point Tracking. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 1928-1940	7.2	331
118	An Integrated Hybrid Power Supply for Distributed Generation Applications Fed by Nonconventional Energy Sources. <i>IEEE Transactions on Energy Conversion</i> , 2008 , 23, 622-631	5.4	127
117	A Hybrid Control Algorithm for Voltage Regulation in DCDC Boost Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 2530-2538	8.9	126
116	A Single-Stage Single-Phase Transformer-Less Doubly Grounded Grid-Connected PV Interface. <i>IEEE Transactions on Energy Conversion</i> , 2009 , 24, 93-101	5.4	125
115	A Novel Scheme for Rapid Tracking of Maximum Power Point in Wind Energy Generation Systems. <i>IEEE Transactions on Energy Conversion</i> , 2010 , 25, 228-236	5.4	116
114	MPPT Scheme for a PV-Fed Single-Phase Single-Stage Grid-Connected Inverter Operating in CCM With Only One Current Sensor. <i>IEEE Transactions on Energy Conversion</i> , 2009 , 24, 256-263	5.4	107
113	Design and Analysis of a High-Efficiency DCDC Converter With Soft Switching Capability for Renewable Energy Applications Requiring High Voltage Gain. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 2936-2944	8.9	101
112	Universal Single-Stage Grid-Connected Inverter. <i>IEEE Transactions on Energy Conversion</i> , 2008 , 23, 128-137	5.4	97
111	A Novel Reconfigurable Microgrid Architecture With Renewable Energy Sources and Storage. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 1805-1816	4.3	92
110	Novel Nonlinear Droop Control Techniques to Overcome the Load Sharing and Voltage Regulation Issues in DC Microgrid. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4477-4487	7.2	79
109	Novel High-Performance Stand-Alone Solar PV System With High-Gain High-Efficiency DCDC Converter Power Stages. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 4718-4728	4.3	78
108	Exact Maximum Power Point Tracking of Grid-Connected Partially Shaded PV Source Using Current Compensation Concept. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 4684-4692	7.2	65
107	A DSP Based Optimal Algorithm for Shunt Active Filter Under Nonsinusoidal Supply and Unbalanced Load Conditions. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 593-601	7.2	64
106	Novel Integration of a PV-Wind Energy System With Enhanced Efficiency. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 3638-3649	7.2	61
105	Experimental Evaluation of Internal Model Control Scheme on a DCDC Boost Converter Exhibiting Nonminimum Phase Behavior. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 8880-8891	7.2	42

104	A Cost-Effective Ultrasonic Sensor-Based Driver-Assistance System for Congested Traffic Conditions. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2009 , 10, 486-498	6.1	41
103	A Frequency-Dependent Virtual Impedance for Voltage-Regulating Converters Feeding Constant Power Loads in a DC Microgrid. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 5630-5639	4.3	35
102	On the Input Resistance of a Reconfigurable Switched Capacitor DCDC Converter-Based Maximum Power Point Tracker of a Photovoltaic Source. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 4880-4893	7.2	34
101	Control of a Stand-Alone Inverter-Based Distributed Generation Source for Voltage Regulation and Harmonic Compensation. <i>IEEE Transactions on Power Delivery</i> , 2008 , 23, 1113-1120	4.3	34
100	Novel Boost-SEPIC Type Interleaved DCDC Converter for Mitigation of Voltage Imbalance in a Low-Voltage Bipolar DC Microgrid. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 6494-6504	8.9	33
99	Design and Development of a Novel High Voltage Gain, High-Efficiency Bidirectional DCDC Converter for Storage Interface. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 4490-4501	8.9	32
98	Novel Control Scheme for an Interleaved Flyback Converter Based Solar PV Microinverter to Achieve High Efficiency. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 3473-3482	4.3	31
97	Fuzzy Logic Control of the Ultracapacitor Interface for Enhanced Transient Response and Voltage Stability of a DC Microgrid. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 712-720	4.3	31
96	A Novel Communication-Based Average Voltage Regulation Scheme for a Droop Controlled DC Microgrid. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 1250-1258	10.7	31
95	An Improved Three-Phase Five-Level Inverter Topology With Reduced Number of Switching Power Devices. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 3296-3305	8.9	31
94	A Novel Three-Phase Transformerless H-8 Topology With Reduced Leakage Current for Grid-Tied Solar PV Applications. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 1765-1774	4.3	28
93	Single Phase Current Source Inverter With Multiloop Control for Transformerless GridPV Interface. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 2416-2424	4.3	23
92	A Novel Approach for Maximum Power Tracking From Curved Thin-Film Solar Photovoltaic Arrays Under Changing Environmental Conditions. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 4142-4151	4.3	23
91	A DSP-Based Control Algorithm for Series Active Filter for Optimized Compensation Under Nonsinusoidal and Unbalanced Voltage Conditions. <i>IEEE Transactions on Power Delivery</i> , 2007 , 22, 302-310	4.3	23
90	Analysis and Control of a Novel Transformer-Less Microinverter for PV-Grid Interface. <i>IEEE Journal of Photovoltaics</i> , 2018 , 8, 1110-1118	3.7	21
89	Simplified Implementation Scheme for Space Vector Pulse Width Modulation of n-Level Inverter With Online Computation of Optimal Switching Pulse Durations. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6695-6704	8.9	19
88	A novel single stage zero leakage current transformer-less inverter for grid connected PV systems 2015 ,		19
87	A new energy optimal control scheme for a separately excited DC motor based incremental motion drive. <i>International Journal of Automation and Computing</i> , 2009 , 6, 267-276	3.5	19

86	Optimum Control of Selective and Total Harmonic Distortion in Current and Voltage Under Nonsinusoidal Conditions. <i>IEEE Transactions on Power Delivery</i> , 2008 , 23, 937-944	4.3	16
85	A Hybrid Nine-Level, 1-Grid Connected Multilevel Inverter With Low Switch Count and Innovative Voltage Regulation Techniques Across Auxiliary Capacitor. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 2159-2170	7.2	14
84	Model Predictive Control for Flexible Reduction of Active Power Oscillation in Grid-Tied Multilevel Inverters Under Unbalanced and Distorted Microgrid Conditions. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 1107-1115	4.3	14
83	. <i>IEEE Journal of Photovoltaics</i> , 2019 , 9, 528-537	3.7	14
82	Reconfigurable hierarchical control of a microgrid developed with PV, wind, micro-hydro, fuel cell and ultra-capacitor 2013 ,		13
81	Mitigation of voltage unbalance in a low voltage bipolar DC microgrid using a boost-SEPIC type interleaved dc-dc compensator 2016 ,		12
80	A New Family of 1-Five-Level Transformerless Inverters for Solar PV Applications. <i>IEEE Transactions on Industry Applications</i> , 2019 , 1-1	4.3	11
79	Recursive Estimation-Based Maximum Power Extraction Technique for a Fuel Cell Power Source Used in Vehicular Applications. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 4636-4643	7.2	11
78	Analysis and design of a ground isolated switched capacitor DC-DC converter 2010 ,		11
77	Hybrid control of a boost converter operating in discontinuous current mode		11
76	Novel transformer-less inverter topology for single-phase grid connected photovoltaic system 2015 ,		10
75	Comprehensive power management scheme for the intelligent operation of photovoltaic-battery based hybrid microgrid system. <i>IET Renewable Power Generation</i> , 2020 , 14, 1688-1698	2.9	10
74	Single stage multi-port Flyback type solar PV module integrated micro-inverter with battery backup 2016 ,		10
73	Trajectory Optimization for Loss Minimization in Induction Motor Fed Elevator Systems. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 5160-5170	7.2	10
72	Maximum Power Extraction From Series-Connected Fuel Cell Stacks by the Current Compensation Technique. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 582-589	7.2	9
71	An Improved Reduced Complexity Model Predictive Current Controller for Grid-Connected Four-Leg Multilevel Inverter. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 498-506	4.3	9
70	Hybrid Energy Storage System Based on a Novel Reduced Rating Multi-Input Converter. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 12133-12142	7.2	8
69	Hybrid Phase Locked Loop for Controlling Master-Slave Configured Centralized Inverters in Large Solar Photovoltaic Power Plants. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 3566-3574	4.3	8

68	Design and Development of a Low-Cost Digital Magnetic Field Meter With Wide Dynamic Range for EMC Precompliance Measurements and Other Applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2009 , 58, 2837-2846	5.2	8
67	Closed loop control of novel transformer-less inverter topology for single phase grid connected photovoltaic system 2016 ,		8
66	An Advanced Voltage Support Scheme Considering the Impact of Zero-Sequence Voltage Under Microgrid Faults Using Model Predictive Control. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 8957-8968	8.9	7
65	Three-level NPC inverter with novel voltage equalization for PV grid interface suitable for partially shaded conditions 2013 ,		6
64	Induction Machines: A Novel, Model based Non-invasive Fault Detection and Diagnosis Technique 2008 ,		6
63	PV Based Distributed Generation with Compensation Feature Under Unbalanced and Non-linear Load Conditions for a 3-?, 4 Wire System 2006 ,		6
62	Novel Switched Capacitor Boost Inverter Configuration for Three-Phase Induction Motor Driven Home Appliances. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 1450-1458	4.3	6
61	An Active Damping Technique for PI and Predictive Controllers of an Interlinking Converter in an Islanded Hybrid Microgrid. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 5521-5529	7.2	6
60	A Novel Single-Phase T-Type PV Inverter with Improved DC Utilization 2018 ,		6
59	A Low Computational Cost Model Predictive Controller for Grid Connected Three Phase Four Wire Multilevel Inverter 2018 ,		5
58	A novel switched-capacitor based single-phase five-level transformerless inverter 2018 ,		5
57	Speech recognition based computer keyboard replacement for the Quadriplegics, Paraplegics, paralytics and amputees 2009 ,		5
56	A novel technique for optimising harmonics and reactive power with load balancing under nonsinusoidal supply and unbalanced load conditions		5
55	A Transformerless 1- \square 5-Level Half-Bridge PV Inverter Configuration Based on Switched-Capacitor Technique. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 1619-1628	4.3	5
54	A Multi Input Converter for Interfacing Battery and Supercapacitor to the Load 2018 ,		5
53	A new control technique to enhance the stability of a DC microgrid and to reduce battery current ripple during the charging of plug-in electric vehicles 2015 ,		4
52	A novel control strategy for stand-alone solar PV systems with enhanced battery life 2014 ,		4
51	Single phase 9 level grid connected inverter for photovoltaic applications 2013 ,		4

50	Hardware in the loop simulation of direct synthesis based two degree of freedom PID control of DC-DC boost converter using Real Time Digital Simulation in FPGA 2014 ,		4
49	A novel and universal model for accurate prediction of PV module characteristics for power optimization under various design layouts and dynamic environmental conditions 2012 ,		4
48	An optimized dual inverter configuration for open end winding induction motor drive with Common Mode Voltage elimination 2016 ,		4
47	Novel Three-Phase H10 Inverter Topology with Zero Common Mode Voltage for Three-Phase Induction Motor Drive Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	4
46	RES and battery fed energy efficient single-phase induction motor drive system with retrofit solution. <i>IET Electric Power Applications</i> , 2019 , 13, 332-339	1.8	3
45	Novel soft switched interleaved DC-DC converters for integration of renewable sources and storage into low voltage DC micro grid 2015 ,		3
44	A Novel 1- ϕ , 5-level transformerless inverter with voltage boosting capability 2017 ,		3
43	Optimization of Operational Energy Cost in a Hybrid Distributed Generation System 2008 ,		3
42	Implementation of an internal model controller with anti-reset windup compensation for output voltage tracking of a non-minimum phase dc-dc boost converter using FPGA 2016 ,		3
41	Terminal voltage analysis for the transformerless PV inverter topologies in a single-phase system. <i>IET Renewable Power Generation</i> , 2019 , 13, 2723-2739	2.9	3
40	A Novel Three-Phase Induction Motor Drive for Domestic Fan Application with Improved Reliability 2018 ,		3
39	High Efficiency Three Phase Interleaved Buck Converter for Fast Charging of EV 2021 ,		3
38	Optimal Placement of Distributed Energy Resources in a DC Microgrid with Constant Power Loads to Minimize Bus Voltage Deviations and Line Losses 2019 ,		2
37	Jerk and loss minimization in electric elevator systems 2014 ,		2
36	Multi-input DC-AC converter for renewable energy applications 2013 ,		2
35	Novel multi-input solar PV topologies for 1- ϕ and 3- ϕ stand alone applications to mitigate the effects of partial shading 2013 ,		2
34	Ion mobility sensor based on photo-ionization light source for trace gas sensing 2010 ,		2
33	Taguchi Based Performance and Reliability Improvement of an Ion Chamber Amplifier for Enhanced Nuclear Reactor Safety. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 2303-2314	1.7	2

32	A Circuit Theoretical Approach to Hybrid Mode Switching Control of a Pseudo CCM Boost Converter 2006,		2
31	Dual Active Bridge based Reduced Stage Multi-Port DC/AC Converter for PV-Battery Systems. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	2
30	A self-switched virtual impedance based stabilization method for a droop controlled DC microgrid with Constant Power Loads and input load filters 2016,		2
29	Hybrid Phase Locked Loop for controlling Centralized inverters in large solar Photovoltaic power plants 2016,		2
28	A novel 3-phase, transformerless H-8 topology with low variation in CMV to reduce leakage current 2016,		2
27	A Novel Per Unit (P.U.) Integer Format Applied to the Control of a Grid-Tied Solar PV Inverter. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	2
26	A Simple Adaptive Fractional Order Model of Supercapacitor for Pulse Power Applications 2018,		2
25	An Advanced Model Predictive Controller for Grid-Tied Four-Leg Multilevel Inverters 2018,		2
24	State of Charge Estimation of Supercapacitors with Fractional Order Modelling 2018,		2
23	A Novel Control Strategy to Achieve SOC Balancing for Batteries in a DC Microgrid Without Droop Control. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 4196-4206	4.3	2
22	New self-balancing 7-level inverter with coupled inductors for 1-grid-connected renewable energy systems with voltage boosting capability. <i>IET Power Electronics</i> , 2020 , 13, 899-908	2.2	1
21	Current source inverter with reduced leakage current for transformer-less Grid -PV interface 2016,		1
20	Novel self balancing single phase asymmetric 9 level grid connected inverter for photovoltaic applications 2013,		1
19	Control of single-stage grid-connected three-phase solar photovoltaic system using sliding mode control 2015,		1
18	High-gain boost converter with coupled inductor and switched capacitor for low voltage renewable energy sources 2014,		1
17	CAN based control of DC-DC converters in distributed generation units operating in master slave configuration 2012,		1
16	Dynamic power control and performance analysis of Phosphoric Acid Fuel Cell - Battery hybrid system 2012,		1
15	An ultracapacitor driven short-distance electric vehicle 2012,		1

14	Comparison of Mode Switched Controllers for a Pseudo Continuous Current Mode Boost Converter 2006,		1
13	A Sliding Mode Control based stabilization solution for multiple Constant Power Loads with identical input filters interfaced with the DC bus of a More Electric Aircraft 2016,		1
12	A hybrid 9-level inverter with minimum number of switches for single phase grid connected solar PV system 2016,		1
11	Advanced maximum power point tracking scheme for centralized inverters for large solar photovoltaic power plants 2016,		1
10	A Low Cost Electrolytic Capacitor-less Induction Motor Drive Based on a Novel Open Loop Model Predictive Control Strategy 2019,		1
9	SoC based droop control for a DC microgrid with improved voltage regulation using Low Bandwidth Communication 2019,		1
8	Improved Set-Point Tracking and Disturbance Rejection of DCDC Converters Using Voltage-Mode Digital Control. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 3276-3286	5.6	1
7	A Novel Single-Phase Switched-Capacitor Based 5-level Inverter Topology Featuring Voltage Boosting Capability and Common Mode Voltage Reduction 2021,		1
6	A Modified 2-level Three-Phase Inverter Topology with Common Mode Voltage Performance of a 3-level Inverter 2021,		1
5	A Novel Voltage-Zone based power management scheme for PV- Battery based Standalone System 2018,		1
4	A New Three-Phase Inverter Topology for Reducing the dv/dt and peak-to-peak Value of Common Mode Voltage. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	0
3	Novel Multicarrier PWM Scheme for a Reconfigurable Single-Phase Inverter to Achieve Manifold Higher Effective Switching Frequency. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 2340-2349	5.6	0
2	A comparative study of gamma radiation effects on a logarithmic amplifier based multiplier circuit using common and Precision Devices. <i>Australian Journal of Electrical and Electronics Engineering</i> , 2006 , 3, 7-15	0.6	
1	A Multicarrier-PWM Scheme Along With a Reconfigurable Buck Converter Imitating Multiple Times Higher Switching Frequency. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 3638-3642	8.9	