

Sandeep Anand

List of Publications by Year in descending order

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75
papers

2,343
citations

430874

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docs citations

75
times ranked

2046
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed Control to Ensure Proportional Load Sharing and Improve Voltage Regulation in Low-Voltage DC Microgrids. IEEE Transactions on Power Electronics, 2013, 28, 1900-1913.	7.9	748
2	Reduced-Order Model and Stability Analysis of Low-Voltage DC Microgrid. IEEE Transactions on Industrial Electronics, 2013, 60, 5040-5049.	7.9	252
3	Optimal voltage level for DC microgrids. , 2010, , .		166
4	Transformer-Less Grid Feeding Current Source Inverter for Solar Photovoltaic System. IEEE Transactions on Industrial Electronics, 2014, 61, 5334-5344.	7.9	112
5	Modified droop controller for paralleling of dc-dc converters in standalone dc system. IET Power Electronics, 2012, 5, 782-789.	2.1	95
6	Evaluation of Vce at Inflection Point for Monitoring Bond Wire Degradation in Discrete Packaged IGBTs. IEEE Transactions on Power Electronics, 2017, 32, 2481-2484.	7.9	95
7	Quasi-Online Technique for Health Monitoring of Capacitor in Single-Phase Solar Inverter. IEEE Transactions on Power Electronics, 2018, 33, 5283-5291.	7.9	65
8	Online Monitoring Technique for Aluminum Electrolytic Capacitor in Solar PV-Based DC System. IEEE Transactions on Industrial Electronics, 2016, 63, 7059-7066.	7.9	58
9	Low-Frequency Impedance Monitoring and Corresponding Failure Criteria for Aluminum Electrolytic Capacitors. IEEE Transactions on Industrial Electronics, 2017, 64, 5657-5666.	7.9	52
10	Coordinated Control of OLTC and Energy Storage for Voltage Regulation in Distribution Network With High PV Penetration. IEEE Transactions on Sustainable Energy, 2021, 12, 262-272.	8.8	52
11	Integrated DC-DC Converter Based Grid-Connected Transformerless Photovoltaic Inverter With Extended Input Voltage Range. IEEE Transactions on Power Electronics, 2018, 33, 8322-8330.	7.9	48
12	Noninvasive Technique for DC-Link Capacitance Estimation in Single-Phase Inverters. IEEE Transactions on Power Electronics, 2018, 33, 3693-3696.	7.9	42
13	Lifetime Monitoring of Electrolytic Capacitor to Maximize Earnings From Grid-Feeding PV System. IEEE Transactions on Industrial Electronics, 2016, 63, 7049-7058.	7.9	37
14	Adaptive shunt filtering control of UPQC for increased nonlinear loads. IET Power Electronics, 2019, 12, 330-336.	2.1	31
15	Health Estimation of Individual Capacitors in a Bank With Reduced Sensor Requirements. IEEE Transactions on Industrial Electronics, 2019, 66, 7250-7259.	7.9	31
16	Quality-Index Based Distributed Secondary Controller for a Low-Voltage DC Microgrid. IEEE Transactions on Industrial Electronics, 2018, 65, 7004-7014.	7.9	29
17	Effect of Communication Delay on Consensus-Based Secondary Controllers in DC Microgrid. IEEE Transactions on Industrial Electronics, 2021, 68, 3202-3212.	7.9	25
18	Ideal current-based distributed control to compensate line impedance in DC microgrid. IET Power Electronics, 2018, 11, 1178-1186.	2.1	24

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19	Steady state performance analysis for load sharing in DC distributed generation system. , 2011, , .		23
20	Unique Power Electronics and Drives Experimental Bench (PEDEB) to Facilitate Learning and Research. IEEE Transactions on Education, 2012, 55, 573-579.	2.4	22
21	Distributed secondary control with reduced communication in low-voltage DC microgrid. , 2016, , .		20
22	DC Voltage Controller for Asymmetric-Twin-Converter-Topology-Based High-Power STATCOM. IEEE Transactions on Industrial Electronics, 2013, 60, 11-19.	7.9	18
23	A Distributed-Controlled Harmonic Virtual Impedance Loop for AC Microgrids. IEEE Transactions on Industrial Electronics, 2021, 68, 3949-3961.	7.9	18
24	Power Loss Reduction in Buck Converter Based Active Power Decoupling Circuit. IEEE Transactions on Power Electronics, 2021, 36, 4316-4325.	7.9	18
25	Accurate Online Junction Temperature Estimation of IGBT Using Inflection Point Based Updated V Characteristics. IEEE Transactions on Power Electronics, 2021, 36, 9826-9836.	7.9	17
26	Capacitor impedance estimation utilizing dc-link voltage oscillations in single phase inverter. IET Power Electronics, 2017, 10, 1046-1053.	2.1	17
27	Frequency response improvement in microgrid using optimized VSG control. , 2016, , .		15
28	Design and control of single-phase dynamic voltage restorer. Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 1363-1375.	1.3	12
29	Methodology of an Accurate Static V Characterization of Power Semiconductor Devices. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7703-7715.	4.7	11
30	Unveiling the Role of Graphene Oxide as an Interface Interlocking Ingredient in Polyvinylidene Fluoride-Based Multilayered Thin Film Capacitors for High Energy Density and Ultrafast Discharge Applications. Energy Technology, 2021, 9, 2000905.	3.8	11
31	Simulation of low voltage ride through scheme for inverters connected to distribution system with high R/X ratio. , 2016, , .		10
32	An online technique for condition monitoring of capacitor in PV system. , 2015, , .		9
33	Online algorithms for storage utilization under real-time pricing in smart grid. International Journal of Electrical Power and Energy Systems, 2018, 101, 50-59.	5.5	9
34	GaN-Based Multiple Output Flyback Converter With Independently Controlled Outputs. IEEE Transactions on Industrial Electronics, 2022, 69, 2565-2576.	7.9	9
35	Flux Error Function Based Controlled Switching Method for Minimizing Inrush Current in 3-Phase Transformer. IEEE Transactions on Power Delivery, 2021, 36, 870-879.	4.3	9
36	Modified PWM Scheme to Reduce Reverse Conduction Loss in GaN-Based Independently Controlled Multiple Output Flyback Converter. IEEE Transactions on Power Electronics, 2022, 37, 12968-12972.	7.9	9

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37	Optimal charging of battery using solar PV in standalone DC system. , 2012, , .		8
38	Online monitoring of power extraction efficiency for minimizing payback period of solar PV system. , 2015, , .		8
39	Power decoupling in solar PV system using partial power processing converter. , 2016, , .		8
40	Comparative analysis of power density in Si MOSFET and GaN HEMT based flyback converters. , 2016, , .		8
41	Condition monitoring of dc-link capacitor utilizing zero state of solar PV H5 inverter. , 2016, , .		7
42	Comparisons on Different Innovative Cascode GaN HEMT E-Mode Power Modules and Their Efficiencies on the Flyback Converter. Energies, 2021, 14, 5966.	3.1	7
43	Eigenvalue sensitivity analysis of microgrid with constant power loads. , 2014, , .		6
44	Correlation of accelerated lifetime in punctured capacitor with normal operating lifetime. , 2016, , .		6
45	Error Analysis of An Accurate Bipolar Voltage Measurement Circuit for Online Health Monitoring of IGBTs. , 2019, , .		6
46	Dynamic droop gain adjustment for proportional power sharing in low voltage DC microgrid. , 2016, , .		5
47	Multilevel open-ended transformer based grid feeding inverter for solar photovoltaic application. , 2012, , .		4
48	Power management control for solar photovoltaic based DC system. , 2014, , .		4
49	CLPSO based droop optimization technique for DC Microgrid. , 2018, , .		4
50	Method to Reduce Harmonic Voltage Distortion and Improve Harmonic Current Sharing in an islanded AC Microgrid. , 2019, , .		4
51	A new 4-level open-ended transformer based STATCOM for high power applications. , 2010, , .		3
52	Comparison of Si and GaN Power Devices Based SMPS for Satellite Application. , 2018, , .		3
53	Structure and Degradation of Aluminum Electrolytic Capacitors. , 2019, , .		3
54	Temperature Droop-Based Dynamic Reactive Power Sharing Technique to Improve the Lifetime of Power Electronic Converter. IEEE Transactions on Power Electronics, 2022, 37, 5245-5255.	7.9	3

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55	Active Thermal Control for Buck Converter-Based Active Power Decoupling Circuit. IEEE Transactions on Power Electronics, 2022, 37, 14955-14965.	7.9	3
56	Adaptive reactive power injection by solar PV inverter to minimize tap changes and line losses. , 2016, , .		2
57	Mission profile based evaluation of capacitor reliability in two stage grid feeding photovoltaic inverter. , 2017, , .		2
58	Reduced communication based local averaging method for low voltage DC microgrid. , 2017, , .		2
59	Coordinated Voltage Control in LV Distribution Systems using OLTC and BESS. , 2018, , .		2
60	Partial Unfolding Scheme for Grid Feeding Transformerless PV Inverter. , 2018, , .		2
61	Performance Analysis of Reduced Communication Network in DC Microgrid. , 2018, , .		2
62	Communication Topology Selection for Secondary Controllers in DC Microgrid. , 2019, , .		2
63	Selection of capacitance for stable operation of low power DC system with constant power loads. IET Generation, Transmission and Distribution, 2021, 15, 809-826.	2.5	2
64	Dual Active Half Bridge Converter with Integrated Active Power Decoupling for On-Board EV Charger. , 2022, , .		2
65	Estimation and utilization of aggregate harmonic load model. , 2017, , .		1
66	Reliability Comparison of DC Link Capacitor Bank for Different Configurations. , 2019, , .		1
67	Stability of DC Microgrid for Different Reduced Communication Topologies. , 2019, , .		1
68	Consensus based Ideal Current Sharing Controller for DC Microgrid. , 2020, , .		1
69	Accelerated Aging Method and Lifetime Evaluation of Aluminum Electrolytic Capacitors for Power Electronic Application. , 2020, , .		1
70	Low Side Switch Based Regenerative Snubber Circuit for Flyback Converter. , 2020, , .		1
71	Optimal utilization of storage systems under real-time pricing. , 2017, , .		0
72	Dynamic Overcurrent Saturation of Distributed Sources in a DC Microgrid System. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
73	An Improved Droop Control Method to Enhance Dynamic Performance of AC Microgrid. , 2018, , .		0
74	A Cascaded Interleaved Bootstrapped Gate Driver Power Supply for Multilevel Photovoltaic Inverters. , 2020, , .		0
75	Availability Based Load Harmonic Compensation Using PV Inverter. , 2020, , .		0