

Chandan Chakraborty

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1557590/chandan-chakraborty-publications-by-year.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

91
papers

1,387
citations

19
h-index

35
g-index

115
ext. papers

1,872
ext. citations

5.9
avg, IF

5.37
L-index

#	Paper	IF	Citations
91	Performance of Reduced DC Source Based Three-Phase High Resolution Multilevel Inverter with Optimal Asymmetry. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	0
90	Three-level Vienna Rectifier with a Brushless and Permanent Magnetless Generator for Wind Energy Conversion Systems. <i>Power Electronics and Drives</i> , 2022 , 7, 84-102	0.5	
89	Brushless Synchronous Generator-Unidirectional Rectifier for Offshore Wind Energy Conversion System. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	1
88	Mathematical Modelling of a System for Solar PV Efficiency Improvement Using Compressed Air for Panel Cleaning and Cooling. <i>Energies</i> , 2021 , 14, 4072	3.1	1
87	Performance and Stability of Brushless Induction Excited Synchronous Generator Operating in Self-Excited Mode for Wind Energy Conversion System. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 919-929	5.4	3
86	An E-STATCOM based solution for smoothing Photovoltaic and Wind Power fluctuations in a Microgrid under unbalanced conditions. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	1
85	Universal Active Power Control Converter for DC-Microgrids With Common Energy Storage. <i>IEEE Open Journal of Industry Applications</i> , 2021 , 2, 21-35	4.7	3
84	A New Model for Estimation of Energy Extraction from Bifacial Photovoltaic Modules. <i>Energies</i> , 2021 , 14, 5089	3.1	0
83	Performance Improvement of PV-Fed Hybrid Modular Multilevel Converter Under Partial Shading Condition. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 9652-9664	8.9	2
82	Three-Phase Tertiary Asymmetric Multilevel Inverter With Single DC Source and Open-Loop Control. <i>IEEE Open Journal of Industry Applications</i> , 2021 , 2, 259-277	4.7	0
81	PV-Supercapacitor Cascaded Topology for Primary Frequency Responses and Dynamic Inertia Emulation. <i>Energies</i> , 2021 , 14, 8347	3.1	0
80	Seven-Level Packed U-Cell (PUC) Converter With Natural Balancing of Capacitor Voltages. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 5234-5244	4.3	7
79	Performance and Analysis of a New Brushless Synchronous Generator for DC Microgrid Application. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 3137-3148	4.3	5
78	A Unified Control Structure for Grid Connected and Islanded Mode of Operation of Voltage Source Converter Based Distributed Generation Units Under Unbalanced and Non-Linear Conditions. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 1758-1768	4.3	8
77	Brushless and Magnetless Synchronous Generator for Standalone DC load with Vienna Rectifier 2020 ,		1
76	Full-Bridge Converter With Naturally Balanced Modular Cascaded H-Bridge Waveshapers for Offshore HVDC Transmission. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 271-281	8.2	3
75	Asymmetric Cascaded H-Bridge Multilevel Inverter With Single DC Source per Phase. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 5398-5409	8.9	16

74	Synchronous Generator With Embedded Brushless Synchronous Exciter. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 1242-1254	5.4	17
73	Integration of Solar PV With Low-Voltage Weak Grid System: Using Normalized Laplacian Kernel Adaptive Kalman Filter and Learning Based InC Algorithm. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 10746-10758	7.2	31
72	A Series Voltage Regulator for the Radial DC Microgrid. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 127-136	8.2	13
71	A Novel Method of Frequency Regulation in Microgrid. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 111-121	4.3	27
70	A Switched Capacitor Series Voltage Controller with Fault Current Limiting Capability for DC Microgrid Application 2019 ,		2
69	Design of a 4/6-pole Synchronous Machine with Embedded Brushless Synchronous Exciter (SEBSE) 2019 ,		2
68	A Brushless Synchronous Generator for Standalone DC Applications 2019 ,		1
67	Voltage Fault Ride-Through Operation of Solar PV Units: A Review and Way Forward 2019 ,		2
66	Capacitor Size Reduction of Multilevel Inverters by Utilizing Neutral Shifting. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 2243-2254	5.6	5
65	Performance of Brushless Induction Excited Synchronous Generator. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 2571-2582	5.6	12
64	An Improved Modulation Strategy for Fast Capacitor Voltage Balancing of Three-Level NPC Inverters. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 7498-7509	8.9	16
63	Active Power Flow Control Between DC Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 5712-5723	10.7	24
62	A New Configuration of Dual Stator Induction Generator Employing Series and Shunt Capacitors. <i>IEEE Transactions on Energy Conversion</i> , 2018 , 33, 762-772	5.4	13
61	Disturbance Rejection Analysis and FPGA-Based Implementation of a Second-Order Sliding Mode Controller Fed Induction Motor Drive. <i>IEEE Transactions on Energy Conversion</i> , 2018 , 33, 1453-1462	5.4	21
60	An Improved PWM Scheme for Three-Level Inverter Extending Operation Into Overmodulation Region With Neutral-Point Voltage Balancing for Full Power-Factor Range. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 1527-1539	5.6	19
59	Three-Phase Hybrid Cascaded Multilevel Inverter Using Topological Modules With 1:7 Ratio of Asymmetry. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 2302-2314	5.6	20
58	Seven-Level Packed U-Cell (PUC) Converter with Natural Balancing of Capacitor Voltages 2018 ,		1
57	Modular Multilevel Converter for Multifunctional Battery Management System of Electric Vehicle 2018 ,		3

56	Buck-Boost Buck CCM-DCM Converter for PV Based DC Standalone System 2018 ,		2
55	A New Brushless Synchronous Generator for DC Micro-grid Application 2018 ,		1
54	Brushless Induction Excited Synchronous Generator With Induction Machine Operating in Plugging Mode. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 5748-5759	4.3	8
53	New Voltage Control Strategies for VSC-Based DG Units in an Unbalanced Microgrid. <i>IEEE Transactions on Sustainable Energy</i> , 2017 , 8, 1127-1139	8.2	52
52	A New Asymmetric Multilevel Inverter Topology Suitable for Solar PV Applications With Varying Irradiance. <i>IEEE Transactions on Sustainable Energy</i> , 2017 , 8, 1496-1506	8.2	43
51	A New Optimal Current Control Technique for Dual Stator Winding Induction Generator. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017 , 5, 820-832	5.6	18
50	A new series of brushless and permanent magnetless synchronous machines 2017 ,		3
49	A Carrier-Based PWM Scheme for Neutral Point Voltage Balancing in Three-Level Inverter Extending to Full Power Factor Range. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 1873-1883	8.9	51
48	A new technique for capacitor balancing of three-level flying-capacitor multilevel inverter 2017 ,		1
47	Photovoltaic central inverters: Performance evaluation and comparative assessment 2017 ,		1
46	Brushless induction excited synchronous generator with induction machine operating in plugging mode 2016 ,		2
45	Electro-thermal modeling of Lithium-ion cell for higher discharge rate applications 2016 ,		2
44	A novel method of frequency regulation in microgrid 2016 ,		3
43	A hybrid modular multilevel converter for solar power integration 2016 ,		3
42	ZVS Σ CS High Voltage Gain Integrated Boost Converter for DC Microgrid. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6898-6908	8.9	62
41	Full bridge level doubling network assisted multilevel DC link inverter 2016 ,		2
40	Dynamic voltage compensation using Series Voltage Regulator for DC-microgrid 2016 ,		2
39	Hybrid modulation technique for binary asymmetrical cascaded multilevel inverter for PV application 2016 ,		3

38	Dual Stator Winding Induction Machine: Problems, Progress, and Future Scope. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 4641-4652	8.9	71
37	Performance of Three-Phase Asymmetric Cascaded Bridge (16 : 4 : 1) Multilevel Inverter. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 5983-5992	8.9	28
36	A New Formulation of Reactive-Power-Based Model Reference Adaptive System for Sensorless Induction Motor Drive. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 6797-6808	8.9	72
35	A new control technique for dual stator induction generator used in standalone applications 2015 ,		2
34	A New Multilevel Inverter Topology With Self-Balancing Level Doubling Network. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 4622-4631	8.9	102
33	A New Algorithm for Small-Signal Analysis of DCDC Converters. <i>IEEE Transactions on Industrial Informatics</i> , 2014 , 10, 628-636	11.9	20
32	Improving the performance of speed sensorless induction motor drive with rotor broken bar failure by stator current signature analysis 2014 ,		2
31	A brushless generation system for microgrid operation utilizing dual stator induction generator 2014 ,		1
30	ANN based sensorless vector controlled induction motor drive suitable for four quadrant operation 2014 ,		3
29	Dual stator induction generator with controllable reactive power capability 2014 ,		4
28	New series of MRAS for speed estimation of vector controlled induction motor drive 2014 ,		20
27	Non-isolated high-frequency-link to feed auxiliary bridges of asymmetrical cascaded multilevel inverter 2014 ,		1
26	Asymmetric multilevel inverter with quasi-linear power distribution ratio for grid connected photovoltaic converters 2013 ,		4
25	Symmetry-Breaking Bifurcation in Series-Parallel Load Resonant DC-DC Converters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013 , 60, 778-787	3.9	19
24	A new model reference adaptive formulation to estimate stator resistance in field oriented induction motor drive 2013 ,		10
23	Multilevel inverters with level doubling network: A new topological variation 2013 ,		3
22	A novel control principle for a high frequency transformer based multiport converter for integration of renewable energy sources 2013 ,		4
21	A hybrid multilevel inverter topology with third harmonic injection for grid connected photovoltaic central inverters 2012 ,		9

20	Cascaded H-Bridge & neutral point clamped hybrid asymmetric multilevel inverter topology for grid interactive transformerless photovoltaic power plant 2012 ,		13
19	A Shunt Active Power Filter With Enhanced Performance Using ANN-Based Predictive and Adaptive Controllers. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 421-428	8.9	189
18	Third harmonic injected binary hybrid multilevel inverter for grid connected photovoltaic system 2011 ,		3
17	A static synchronous compensator (STATCOM) using parallel inverters operating at different switching frequencies 2011 ,		1
16	An Alternative Adaptation Mechanism for Model Reference Adaptive System Based Sensorless Induction Motor Drive. <i>Electric Power Components and Systems</i> , 2010 , 38, 710-736	1	7
15	A novel model reference adaptive controller for estimation of speed and stator resistance for vector controlled induction motor drives 2010 ,		3
14	A New V _q based adaptive speed sensorless four quadrant vector controlled induction motor drive 2010 ,		3
13	Shunt active power filter/STATCOM topology for medium/high power applications: Parallel inverters operating at different switching frequencies 2010 ,		1
12	Sensorless control of grid-connected doubly-fed slip-ring induction motor drive 2009 ,		2
11	Harmonic elimination and reactive power compensation through a shunt active power filter by twin neural networks with predictive and adaptive properties 2009 ,		2
10	Experimental validation of very-low and zero speed operation of a flux-eliminated adaptive estimator for vector controlled IM drive 2009 ,		3
9	A reduced switch transformer-less dual hybrid active power filter 2009 ,		1
8	ANN (Adaline) Based Harmonic Compensation for Shunt Active Power Filter with Capacitor Voltage Based Predictive Technique 2008 ,		2
7	Model Reference Adaptive Controller-Based Rotor Resistance and Speed Estimation Techniques for Vector Controlled Induction Motor Drive Utilizing Reactive Power. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 594-601	8.9	198
6	Predictive and Adaptive ANN (Adaline) Based Harmonic Compensation for Shunt Active Power Filter 2008 ,		3
5	MRAS-based speed estimation techniques for vector controlled double inverter-fed slipping induction motor drive 2008 ,		3
4	A Direct PWM Technique for a Single-Phase Full-Bridge Inverter Through Controlled Capacitor Charging. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 2912-2922	8.9	14
3	Adaptive Estimation of Speed and Rotor Time Constant for the Vector Controlled Induction Motor Drive Using Reactive Power 2007 ,		8

- | | | |
|---|---|---|
| 2 | Reactive Power Based Speed Sensorless Controller for Permanent Magnet Synchronous Motor Drive 2006 , | 2 |
| 1 | Single Phase, Full Bridge, Controlled Capacitor Charging (CCC) Type Inverter 2006 , | 2 |