

# Chandan Chakraborty

## List of Publications by Citations

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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.

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	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> , <b>2008</b> , 55, 594-601	8.9	198
90	A Shunt Active Power Filter With Enhanced Performance Using ANN-Based Predictive and Adaptive Controllers. <i>IEEE Transactions on Industrial Electronics</i> , <b>2011</b> , 58, 421-428	8.9	189
89	A New Multilevel Inverter Topology With Self-Balancing Level Doubling Network. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 4622-4631	8.9	102
88	A New Formulation of Reactive-Power-Based Model Reference Adaptive System for Sensorless Induction Motor Drive. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 6797-6808	8.9	72
87	Dual Stator Winding Induction Machine: Problems, Progress, and Future Scope. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 4641-4652	8.9	71
86	ZVS/CS High Voltage Gain Integrated Boost Converter for DC Microgrid. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 6898-6908	8.9	62
85	New Voltage Control Strategies for VSC-Based DG Units in an Unbalanced Microgrid. <i>IEEE Transactions on Sustainable Energy</i> , <b>2017</b> , 8, 1127-1139	8.2	52
84	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> , <b>2017</b> , 64, 1873-1883	8.9	51
83	A New Asymmetric Multilevel Inverter Topology Suitable for Solar PV Applications With Varying Irradiance. <i>IEEE Transactions on Sustainable Energy</i> , <b>2017</b> , 8, 1496-1506	8.2	43
82	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> , <b>2019</b> , 34, 10746-10758	7.2	31
81	Performance of Three-Phase Asymmetric Cascaded Bridge (16 : 4 : 1) Multilevel Inverter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 5983-5992	8.9	28
80	A Novel Method of Frequency Regulation in Microgrid. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 111-121	4.3	27
79	Active Power Flow Control Between DC Microgrids. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 5712-5723	10.7	24
78	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> , <b>2018</b> , 33, 1453-1462	5.4	21
77	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> , <b>2018</b> , 6, 2302-2314	5.6	20
76	A New Algorithm for Small-Signal Analysis of DC/DC Converters. <i>IEEE Transactions on Industrial Informatics</i> , <b>2014</b> , 10, 628-636	11.9	20
75	New series of MRAS for speed estimation of vector controlled induction motor drive <b>2014</b> ,		20

74	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> , <b>2018</b> , 6, 1527-1539	5.6	19
73	Symmetry-Breaking Bifurcation in Series-Parallel Load Resonant DC-DC Converters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2013</b> , 60, 778-787	3.9	19
72	A New Optimal Current Control Technique for Dual Stator Winding Induction Generator. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2017</b> , 5, 820-832	5.6	18
71	Synchronous Generator With Embedded Brushless Synchronous Exciter. <i>IEEE Transactions on Energy Conversion</i> , <b>2019</b> , 34, 1242-1254	5.4	17
70	An Improved Modulation Strategy for Fast Capacitor Voltage Balancing of Three-Level NPC Inverters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 7498-7509	8.9	16
69	Asymmetric Cascaded H-Bridge Multilevel Inverter With Single DC Source per Phase. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 5398-5409	8.9	16
68	A Direct PWM Technique for a Single-Phase Full-Bridge Inverter Through Controlled Capacitor Charging. <i>IEEE Transactions on Industrial Electronics</i> , <b>2008</b> , 55, 2912-2922	8.9	14
67	A New Configuration of Dual Stator Induction Generator Employing Series and Shunt Capacitors. <i>IEEE Transactions on Energy Conversion</i> , <b>2018</b> , 33, 762-772	5.4	13
66	A Series Voltage Regulator for the Radial DC Microgrid. <i>IEEE Transactions on Sustainable Energy</i> , <b>2019</b> , 10, 127-136	8.2	13
65	Cascaded H-Bridge & neutral point clamped hybrid asymmetric multilevel inverter topology for grid interactive transformerless photovoltaic power plant <b>2012</b> ,		13
64	Performance of Brushless Induction Excited Synchronous Generator. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2019</b> , 7, 2571-2582	5.6	12
63	A new model reference adaptive formulation to estimate stator resistance in field oriented induction motor drive <b>2013</b> ,		10
62	A hybrid multilevel inverter topology with third harmonic injection for grid connected photovoltaic central inverters <b>2012</b> ,		9
61	Adaptive Estimation of Speed and Rotor Time Constant for the Vector Controlled Induction Motor Drive Using Reactive Power <b>2007</b> ,		8
60	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> , <b>2020</b> , 35, 1758-1768	4.3	8
59	Brushless Induction Excited Synchronous Generator With Induction Machine Operating in Plugging Mode. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 5748-5759	4.3	8
58	Seven-Level Packed U-Cell (PUC) Converter With Natural Balancing of Capacitor Voltages. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 56, 5234-5244	4.3	7
57	An Alternative Adaptation Mechanism for Model Reference Adaptive System Based Sensorless Induction Motor Drive. <i>Electric Power Components and Systems</i> , <b>2010</b> , 38, 710-736	1	7

56	Performance and Analysis of a New Brushless Synchronous Generator for DC Microgrid Application. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 56, 3137-3148	4.3	5
55	Capacitor Size Reduction of Multilevel Inverters by Utilizing Neutral Shifting. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2019</b> , 7, 2243-2254	5.6	5
54	Asymmetric multilevel inverter with quasi-linear power distribution ratio for grid connected photovoltaic converters <b>2013</b> ,		4
53	Dual stator induction generator with controllable reactive power capability <b>2014</b> ,		4
52	A novel control principle for a high frequency transformer based multiport converter for integration of renewable energy sources <b>2013</b> ,		4
51	A novel method of frequency regulation in microgrid <b>2016</b> ,		3
50	A hybrid modular multilevel converter for solar power integration <b>2016</b> ,		3
49	ANN based sensorless vector controlled induction motor drive suitable for four quadrant operation <b>2014</b> ,		3
48	A new series of brushless and permanent magnetless synchronous machines <b>2017</b> ,		3
47	Multilevel inverters with level doubling network: A new topological variation <b>2013</b> ,		3
46	A novel model reference adaptive controller for estimation of speed and stator resistance for vector controlled induction motor drives <b>2010</b> ,		3
45	A New V <sub>q</sub> based adaptive speed sensorless four quadrant vector controlled induction motor drive <b>2010</b> ,		3
44	Third harmonic injected binary hybrid multilevel inverter for grid connected photovoltaic system <b>2011</b> ,		3
43	Experimental validation of very-low and zero speed operation of a flux-eliminated adaptive estimator for vector controlled IM drive <b>2009</b> ,		3
42	Predictive and Adaptive ANN (Adaline) Based Harmonic Compensation for Shunt Active Power Filter <b>2008</b> ,		3
41	MRAS-based speed estimation techniques for vector controlled double inverter-fed slipping induction motor drive <b>2008</b> ,		3
40	Hybrid modulation technique for binary asymmetrical cascaded multilevel inverter for PV application <b>2016</b> ,		3
39	Full-Bridge Converter With Naturally Balanced Modular Cascaded H-Bridge Waveshapers for Offshore HVDC Transmission. <i>IEEE Transactions on Sustainable Energy</i> , <b>2020</b> , 11, 271-281	8.2	3

38	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> , <b>2021</b> , 36, 919-929	5-4	3
37	Universal Active Power Control Converter for DC-Microgrids With Common Energy Storage. <i>IEEE Open Journal of Industry Applications</i> , <b>2021</b> , 2, 21-35	4-7	3
36	Modular Multilevel Converter for Multifunctional Battery Management System of Electric Vehicle <b>2018</b> ,		3
35	Brushless induction excited synchronous generator with induction machine operating in plugging mode <b>2016</b> ,		2
34	Electro-thermal modeling of Lithium-ion cell for higher discharge rate applications <b>2016</b> ,		2
33	A Switched Capacitor Series Voltage Controller with Fault Current Limiting Capability for DC Microgrid Application <b>2019</b> ,		2
32	Design of a 4/6-pole Synchronous Machine with Embedded Brushless Synchronous Exciter (SEBSE) <b>2019</b> ,		2
31	Improving the performance of speed sensorless induction motor drive with rotor broken bar failure by stator current signature analysis <b>2014</b> ,		2
30	A new control technique for dual stator induction generator used in standalone applications <b>2015</b> ,		2
29	Sensorless control of grid-connected doubly-fed slip-ring induction motor drive <b>2009</b> ,		2
28	Harmonic elimination and reactive power compensation through a shunt active power filter by twin neural networks with predictive and adaptive properties <b>2009</b> ,		2
27	ANN (Adaline) Based Harmonic Compensation for Shunt Active Power Filter with Capacitor Voltage Based Predictive Technique <b>2008</b> ,		2
26	Reactive Power Based Speed Sensorless Controller for Permanent Magnet Synchronous Motor Drive <b>2006</b> ,		2
25	Single Phase, Full Bridge, Controlled Capacitor Charging (CCC) Type Inverter <b>2006</b> ,		2
24	Full bridge level doubling network assisted multilevel DC link inverter <b>2016</b> ,		2
23	Dynamic voltage compensation using Series Voltage Regulator for DC-microgrid <b>2016</b> ,		2
22	Voltage Fault Ride-Through Operation of Solar PV Units: A Review and Way Forward <b>2019</b> ,		2
21	Buck-Boost Buck CCM-DCM Converter for PV Based DC Standalone System <b>2018</b> ,		2

20	Performance Improvement of PV-Fed Hybrid Modular Multilevel Converter Under Partial Shading Condition. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 9652-9664	8.9	2
19	A brushless generation system for microgrid operation utilizing dual stator induction generator <b>2014</b> ,		1
18	A new technique for capacitor balancing of three-level flying-capacitor multilevel inverter <b>2017</b> ,		1
17	Photovoltaic central inverters: Performance evaluation and comparative assessment <b>2017</b> ,		1
16	Non-isolated high-frequency-link to feed auxiliary bridges of asymmetrical cascaded multilevel inverter <b>2014</b> ,		1
15	Shunt active power filter/STATCOM topology for medium/high power applications: Parallel inverters operating at different switching frequencies <b>2010</b> ,		1
14	A static synchronous compensator (STATCOM) using parallel inverters operating at different switching frequencies <b>2011</b> ,		1
13	A reduced switch transformer-less dual hybrid active power filter <b>2009</b> ,		1
12	Brushless Synchronous Generator-Unidirectional Rectifier for Offshore Wind Energy Conversion System. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 1-1	5.4	1
11	Brushless and Magnetless Synchronous Generator for Standalone DC load with Vienna Rectifier <b>2020</b> ,		1
10	Mathematical Modelling of a System for Solar PV Efficiency Improvement Using Compressed Air for Panel Cleaning and Cooling. <i>Energies</i> , <b>2021</b> , 14, 4072	3.1	1
9	A Brushless Synchronous Generator for Standalone DC Applications <b>2019</b> ,		1
8	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> , <b>2021</b> , 1-1	7	1
7	Seven-Level Packed U-Cell (PUC) Converter with Natural Balancing of Capacitor Voltages <b>2018</b> ,		1
6	A New Brushless Synchronous Generator for DC Micro-grid Application <b>2018</b> ,		1
5	A New Model for Estimation of Energy Extraction from Bifacial Photovoltaic Modules. <i>Energies</i> , <b>2021</b> , 14, 5089	3.1	0
4	Three-Phase Tertiary Asymmetric Multilevel Inverter With Single DC Source and Open-Loop Control. <i>IEEE Open Journal of Industry Applications</i> , <b>2021</b> , 2, 259-277	4.7	0
3	PV-Supercapacitor Cascaded Topology for Primary Frequency Responses and Dynamic Inertia Emulation. <i>Energies</i> , <b>2021</b> , 14, 8347	3.1	0

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|---|--|-----|---|
| 2 | Performance of Reduced DC Source Based Three-Phase High Resolution Multilevel Inverter with Optimal Asymmetry. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 1-1   | 7.2 | 0 |
| 1 | Three-level Vienna Rectifier with a Brushless and Permanent Magnetless Generator for Wind Energy Conversion Systems. <i>Power Electronics and Drives</i> , <b>2022</b> , 7, 84-102 | 0.5 |   |