Kanungo Barada Mohanty

List of Publications by Citations

63 papers	**600** citations
11 h-index	**22** g-index
84 ext. papers	**864** ext. citations
2.9 avg, IF	**4.69** L-index

#	Paper	IF	Citations
63	A review on MPPT techniques of PV system under partial shading condition. *Renewable and Sustainable Energy Reviews*, **2017**, 80, 854-867	16.2	193
62	Improvement of Power Quality Using a Robust Hybrid Series Active Power Filter. *IEEE Transactions on Power Electronics*, **2017**, 32, 3490-3498	7.2	54
61	Parameter estimation of single diode PV module based on GWO algorithm. *Renewable Energy Focus*, **2019**, 30, 1-12	5.4	44
60	Current control strategies for single phase grid integrated inverters for photovoltaic applications-a review. *Renewable and Sustainable Energy Reviews*, **2018**, 92, 554-569	16.2	26
59	Fault classification in SEIG system using Hilbert-Huang transform and least square support vector machine. *International Journal of Electrical Power and Energy Systems*, **2016**, 76, 11-22	5.1	22
58	Design and experimental investigation of digital model predictive current controller for single phase grid integrated photovoltaic systems. *Renewable Energy*, **2017**, 108, 438-448	8.1	16
57	Real time implementation of an ANFIS-based induction motor drive via feedback linearization for performance enhancement **2016**, 19, 1714-1730		16
56	Selection criteria of dc-dc converter and control variable for MPPT of PV system utilized in heating and cooking applications. *Cogent Engineering*, **2017**, 4, 1363357	1.5	15
55	A modified circuit for symmetric and asymmetric multilevel inverter with reduced components count. *International Transactions on Electrical Energy Systems*, **2019**, 29, e12011	2.2	14
54	Comparative analysis of THD for symmetrical and asymmetrical 17 level cascaded H-bridge inverter using carrier based PWM techniques **2015**,		12
53	New Topology for Asymmetrical Multilevel Inverter: An Effort to Reduced Device Count. *Journal of Circuits, Systems and Computers*, **2018**, 27, 1850055	0.9	12
52	Development and implementation of induction motor drive using sliding-mode based simplified neuro-fuzzy control. *Engineering Applications of Artificial Intelligence*, **2020**, 91, 103593	7.2	11
51	Optimal configuration for cascaded voltage source multilevel inverter based on series connection sub-multilevel inverter. *Cogent Engineering*, **2016**, 3, 1261470	1.5	11
50	Experimental validation of a modular multilevel inverter with less number of switches **2016**,		9
49	Design and Implementation of a Feedback Linearization Controlled IM Drive via Simplified Neuro-Fuzzy Approach. *IETE Journal of Research*, **2018**, 64, 209-230	0.9	9
48	Reduction of circuit devices in symmetrical voltage source multilevel inverter based on series connection of basic unit cells. *AEJ - Alexandria Engineering Journal*, **2018**, 57, 2703-2712	6.1	9
47	A Direct Torque Controlled Induction Motor with Variable Hysteresis Band **2009**,		7

No.	Title	IF	Cites
46	Parameter estimation of single diode PV module based on Nelder-Mead optimization algorithm. *World Journal of Engineering*, **2018**, 15, 70-81	1.8	6
45	Performance enhancement of a linearized induction motor drive using ANFIS based torque controller **2015**,		6
44	Model predictive current controller for performance enhancement of grid-integrated single-phase photovoltaic distributed generation plants. *Transactions of the Institute of Measurement and Control*, **2018**, 40, 762-775	1.8	5
43	Design of Passive Power Filter for Hybrid Series Active Power Filter using Estimation, Detection and Classification Method. *International Journal of Emerging Electric Power Systems*, **2016**, 17, 363-375	1.4	5
42	Implementation of feedback-linearization-modelled induction motor drive through an adaptive simplified neuro-fuzzy approach. *Sadhana - Academy Proceedings in Engineering Sciences*, **2017**, 42, 2113-2135	1	5
41	**2008**,		5
40	Voltage and frequency stabilization of a micro hydro-PV based hybrid micro grid using STATCOM equipped with Battery Energy Storage System **2016**,		5
39	Adequacy assessment of a 2 area system with renewable integration. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2017**, 30, e2237	1	4
38	A sliding mode controller-based STATCOM for voltage profile improvement of micro-grids. *World Journal of Engineering*, **2018**, 15, 283-291	1.8	4
37	Adequacy assessment of wind energy conversion system through simulating wind speed using weibull distribution **2017**,		4
36	Modified Bridgeless SEPIC Rectifier for Power Factor Correction with Reduced Switch Stress Operating in Continuous Conduction Mode. *Journal of Circuits, Systems and Computers*, **2018**, 27, 1850127	0.9	4
35	Development and experimental realization of an adaptive neural-based discrete model predictive direct torque and flux controller for induction motor drive. *Applied Soft Computing Journal*, **2021**, 108, 107418	7.5	4
34	Modified Cascaded Multilevel Inverter with Reduced Component Count **2017**,		3
33	Performance improvement of a STATCOM using fuzzy controller for isolated generator. *World Journal of Engineering*, **2018**, 15, 273-282	1.8	3
32	A novel method to determine minimum capacitance of the self-excited induction generator **2014**,		3
31	Investigation on performance of Doubly-fed induction generator driven by wind turbine under grid voltage fluctuation **2011**,		3
30	Fuzzy adaptive selfish herd optimization based optimal sliding mode controller for frequency stability enhancement of a microgrid **2021**, 33, 101071-101071		3
29	Analytical approach to locate multiple power peaks of photovoltaic array under partial shading condition and hybrid array configuration schemes to reduce mismatch losses. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*,1-22	1.6	3

28	Grid Voltage Sensorless Control of Single Phase Grid Tied Inverter for Renewable Energy Systems Applications. *Electric Power Components and Systems*, **2018**, 46, 1795-1807	1	3
27	An approach to estimate and control SEIG voltage and frequency using CORDIC algorithm. *Transactions of the Institute of Measurement and Control*, **2017**, 39, 861-871	1.8	2
26	Design and realization of an auto-tuned modified neuro-fuzzy sliding-mode-based IM drive deploying feedback linearization. *EPE Journal (European Power Electronics and Drives Journal)*, **2018**, 28, 28-42	0.4	2
25	Fuzzy PI controller for improved voltage regulation in STATCOM based SEIG **2015**,		2
24	Symmetrical and asymmetrical multilevel inverter using less number of switches **2017**,		2
23	Design and implementation of symmetric and asymmetric structure for multilevel inverter **2017**,		2
22	Performance improvement of multilevel inverter through trapezoidal triangular carrier based PWM **2015**,		2
21	Performance improvement of indirect vector controlled induction generator system with sliding mode controller **2012**,		2
20	Sliding mode control of a feedback linearized induction motor using TS fuzzy based adaptive Iterative Learning Controller **2011**,		2
19	Performance improvement of wind turbine driven induction generator system **2008**,		2
18	A reduced MF-based self-tuned robust neuro-fuzzy control of a decoupling linearized IM drive **2016**,		2
17	Reduction in components using modified topology for asymmetrical multilevel inverter. *World Journal of Engineering*, **2019**, 16, 71-77	1.8	1
16	Modelling and Simulation of an Asymmetrical Modular Multilevel Inverter with Less Number of Components. *EPE Journal (European Power Electronics and Drives Journal)*, **2020**, 30, 69-79	0.4	1
15	Probabilistic estimation of capacity value of photovoltaic system **2017**,		1
14	Fuzzy logic controller based STATCOM for voltage profile improvement in a micro-grid **2016**,		1
13	Capacity value estimation of wind power incorporating hourly wind speed. *World Journal of Engineering*, **2017**, 14, 497-502	1.8	1
12	Development of a hybrid fuel cell system operated simplified neuro-fuzzy sliding-mode control based IM drive deploying linearization approach: An effort to enhance the performance. *Journal of Renewable and Sustainable Energy*, **2017**, 9, 064701	2.5	1
11	Voltage profile improvement of a micro grid system using a DFIG based wind energy conversion system **2014**,		1

LIST OF PUBLICATIONS

10	A Fast Edge Detection Algorithm for Road Boundary Extraction under Non-uniform Light Condition		1
9	Improved Sector-Based DTC-SVM for Induction Motor Drive Using Hybrid Fuzzy-PI Controller. *Lecture Notes in Electrical Engineering*, **2020**, 415-428	0.2	1
8	Frequency stability analysis with fuzzy adaptive selfish herd optimization based optimal sliding mode controller for microgrids. *International Journal of Emerging Electric Power Systems*, **2021**,	1.4	1
7	Voltage profile improvement of micro-grids using SMC based STATCOM **2016**,		1
6	Analysis of Wind Characteristics using ARMA & Weibull Distribution **2018**,		1
5	Modified cascaded multilevel inverter for renewable energy systems with less number of unidirectional switches. *Energy Reports*, **2022**, 8, 5296-5304	4.6	1
4	Capacity value estimation of random solar power through associative searching in a k-d tree. *International Transactions on Electrical Energy Systems*, **2019**, 29, e12037	2.2	
3	An Approach to Improve the Performance of Three-phase Self-excited Induction Generator Feeding an Induction Motor Load using Hilbert Transform and Coordinate Rotation Digital Computer. *Electric Power Components and Systems*, **2016**, 44, 1551-1563	1	
2	Hybrid Sliding Mode Based Simplified NFC for Fuel Cell-Powered Linearized IM Drive. *Lecture Notes in Electrical Engineering*, **2020**, 373-386	0.2	
1	Trapezoidal Triangular Carrier-Based PWM Scheme for Performance Enhanced in Multilevel Inverter. *Lecture Notes in Electrical Engineering*, **2021**, 133-145	0.2	