Kanungo Barada Mohanty

List of Publications by Year
in descending order

84 papers	1,028 citations	686830 13 h-index
84 all docs	84 docs citations	84 times ranked

476904 29 g-index
939 citing authors

#	Article	IF	Citations
1	A review on MPPT techniques of PV system under partial shading condition. Renewable and Sustainable Energy Reviews, 2017, 80, 854-867.	8.2	315
2	Parameter estimation of single diode PV module based on GWO algorithm. Renewable Energy Focus, 2019, 30, 1-12.	2.2	76
3	Improvement of Power Quality Using a Robust Hybrid Series Active Power Filter. IEEE Transactions on Power Electronics, 2017, 32, 3490-3498.	5.4	69
4	Current control strategies for single phase grid integrated inverters for photovoltaic applications-a review. Renewable and Sustainable Energy Reviews, 2018, 92, 554-569.	8.2	62
5	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.	3.3	31
6	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.	1.1	26
7	Real time implementation of an ANFIS-based induction motor drive via feedback linearization for performance enhancement. Engineering Science and Technology, an International Journal, 2016, 19, 1714-1730.	2.0	25
8	Development and implementation of induction motor drive using sliding-mode based simplified neuro-fuzzy control. Engineering Applications of Artificial Intelligence, 2020, 91, 103593.	4.3	25
9	Design and experimental investigation of digital model predictive current controller for single phase grid integrated photovoltaic systems. Renewable Energy, 2017, 108, 438-448.	4.3	23
10	A modified circuit for symmetric and asymmetric multilevel inverter with reduced components count. International Transactions on Electrical Energy Systems, 2019, 29, e12011.	1.2	22
11	Comparative analysis of THD for symmetrical and asymmetrical 17 level cascaded H-bridge inverter using carrier based PWM techniques. , 2015, , .		20
12	Voltage and frequency stabilization of a micro hydro-PV based hybrid micro grid using STATCOM equipped with Battery Energy Storage System. , 2016, , .		18
13	Sensorless sliding mode control of induction motor drives. , 2008, , .		16
14	New Topology for Asymmetrical Multilevel Inverter: An Effort to Reduced Device Count. Journal of Circuits, Systems and Computers, 2018, 27, 1850055.	1.0	15
15	Modified cascaded multilevel inverter for renewable energy systems with less number of unidirectional switches. Energy Reports, 2022, 8, 5296-5304.	2.5	15
16	Optimal configuration for cascaded voltage source multilevel inverter based on series connection sub-multilevel inverter. Cogent Engineering, 2016, 3, 1261470.	1.1	13
17	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.	3.4	13
18	A Direct Torque Controlled Induction Motor with Variable Hysteresis Band. , 2009, , .		12

#	Article	IF	Citations
19	Experimental validation of a modular multilevel inverter with less number of switches. , 2016, , .		12
20	Design and Implementation of a Feedback Linearization Controlled IM Drive via Simplified Neuro-Fuzzy Approach. IETE Journal of Research, 2018, 64, 209-230.	1.8	12
21	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, 0, , 1-22.	1.2	12
22	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.	4.1	11
23	Fuzzy adaptive selfish herd optimization based optimal sliding mode controller for frequency stability enhancement of a microgrid. Engineering Science and Technology, an International Journal, 2022, 33, 101071.	2.0	11
24	Performance improvement of multilevel inverter through trapezoidal triangular carrier based PWM. , 2015, , .		10
25	Performance enhancement of a linearized induction motor drive using ANFIS based torque controller. , 2015, , .		9
26	Parameter estimation of single diode PV module based on Nelder-Mead optimization algorithm. World Journal of Engineering, 2018, 15, 70-81.	1.0	9
27	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.	0.6	8
28	Adequacy assessment of wind energy conversion system through simulating wind speed using weibull distribution. , 2017, , .		7
29	Modified Cascaded Multilevel Inverter with Reduced Component Count. , 2017, , .		7
30	A sliding mode controller-based STATCOM for voltage profile improvement of micro-grids. World Journal of Engineering, 2018, 15, 283-291.	1.0	7
31	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.	1.1	7
32	Adaptive Fuzzy Sliding Mode based Torque and Speed Compensator for DTC IM Drive. , 2020, , .		7
33	Sliding mode control of a feedback linearized induction motor using TS fuzzy based adaptive Iterative Learning Controller. , 2011, , .		6
34	A novel method to determine minimum capacitance of the self-excited induction generator. , 2014, , .		6
35	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.	0.8	6
36	Investigation on performance of Doubly-fed induction generator driven by wind turbine under grid voltage fluctuation. , 2011, , .		5

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37	Hybrid topology for multilevel inverter with reduced circuit switches using carrier based PWM scheme. , 2016, , .		5
38	Performance improvement of a STATCOM using fuzzy controller for isolated generator. World Journal of Engineering, 2018, 15, 273-282.	1.0	5
39	Grid Voltage Sensorless Control of Single Phase Grid Tied Inverter for Renewable Energy Systems Applications. Electric Power Components and Systems, 2018, 46, 1795-1807.	1.0	5
40	Frequency stability analysis with fuzzy adaptive selfish herd optimization based optimal sliding mode controller for microgrids. International Journal of Emerging Electric Power Systems, 2021, 22, 547-568.	0.6	5
41	Fuzzy logic controller based STATCOM for voltage profile improvement in a micro-grid. , 2016, , .		4
42	Adequacy assessment of a 2 area system with renewable integration. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2237.	1.2	4
43	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.	1.0	4
44	Improved Sector-Based DTC-SVM for Induction Motor Drive Using Hybrid Fuzzy-PI Controller. Lecture Notes in Electrical Engineering, 2020, , 415-428.	0.3	4
45	Performance improvement of indirect vector controlled induction generator system with sliding mode controller. , 2012, , .		3
46	Space vector modulated Hybrid Series Active Filter for harmonic compensation. , 2015, , .		3
47	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.	1.1	3
48	Symmetrical and asymmetrical multilevel inverter using less number of switches. , 2017, , .		3
49	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.	0.7	3
50	Analysis of Wind Characteristics using ARMA & Weibull Distribution. , 2018, , .		3
51	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.	0.7	3
52	Performance improvement of wind turbine driven induction generator system. , 2008, , .		2
53	Fuzzy PI controller for improved voltage regulation in STATCOM based SEIG. , 2015, , .		2
54	A reduced MF-based self-tuned robust neuro-fuzzy control of a decoupling linearized IM drive. , 2016, , .		2

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55	Capacity value estimation of wind power incorporating hourly wind speed. World Journal of Engineering, 2017, 14, 497-502.	1.0	2
56	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.	0.8	2
57	Design and implementation of symmetric and asymmetric structure for multilevel inverter. , 2017, , .		2
58	Reduction in components using modified topology for asymmetrical multilevel inverter. World Journal of Engineering, 2019, 16, 71-77.	1.0	2
59	Signal Processing Application in Fault Diagnosis of Three Phase Transformers. , 2009, , .		1
60	A hybrid self tuned fuzzy controller for indirect vector controlled induction generator. , 2012, , .		1
61	Voltage profile improvement of a micro grid system using a DFIG based wind energy conversion system. , 2014, , .		1
62	Application of Second Generation Wavelet Transform for SEIG load transient detection. , 2014, , .		1
63	Voltage profile improvement of micro-grids using SMC based STATCOM. , 2016, , .		1
64	A real time study of hybrid series active power filter for power quality improvement. , 2016, , .		1
65	Comparative reliability study of existing & proposed configurations of a PV plant. , 2016, , .		1
66	Probabilistic estimation of capacity value of photovoltaic system. , 2017, , .		1
67	A Fast Edge Detection Algorithm for Road Boundary Extraction under Non-uniform Light Condition. , 2007, , .		1
68	Frequency Domain Modeling for Classification of Signals. , 2009, , .		0
69	Robust sensorless field oriented control of induction motor using sliding mode. , 2011, , .		0
70	Input power conditioning of a linearized induction motor drive using three level front-end converter and passive filter. , 2011, , .		0
71	Fault detection of self excited induction generator. , 2015, , .		0
72	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.	1.0	0

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73	Modelling and design of a modified neuro-fuzzy control-based IM drive via feedback linearization. , 2016, , .		0
74	Design of a Simplified Neuro-Fuzzy-GA-based IM Drive Deploying Linearization Approach. , 2017, , .		0
75	Robust modified structured NFC integrating with GA for linearized induction motor drive. , 2018, , .		0
76	Capacity value estimation of random solar power through associative searching in a k−d tree. International Transactions on Electrical Energy Systems, 2019, 29, e12037.	1.2	0
77	Trapezoidal Triangular Carrier-Based PWM Scheme for Performance Enhanced in Multilevel Inverter. Lecture Notes in Electrical Engineering, 2021, , 133-145.	0.3	0
78	Analysis, voltage control and experiments on a self excited induction generator. Renewable Energy and Power Quality Journal, 0, , 220-225.	0.2	0
79	RTDS Implementation and Induction Motor Drive Performance Comparison with P-I, Sliding Mode and Iterative Learning Controller. International Review of Electrical Engineering, 2013, 8, 144.	0.1	0
80	Vector Control Realization of DFIG Under Grid Abnormalities using Real Time Digital Simulator. International Journal of Power Electronics and Drive Systems, 2016, 7, 1337.	0.5	0
81	Fuzzy Control of Wind Cage Induction Generator System. International Journal on Energy Conversion, 2017, 5, 122.	0.5	0
82	Hybrid Sliding Mode Based Simplified NFC for Fuel Cell-Powered Linearized IM Drive. Lecture Notes in Electrical Engineering, 2020, , 373-386.	0.3	0
83	Neural Network Model-based Direct Torque and Flux Predictor for Induction Motor Drive. , 2021, , .		0
84	TLO-based Neural Discrete Predictive Approach for DTFC Induction Motor Drive. , 2021, , .		0