

Kanungo Barada Mohanty

List of Publications by Year in Descending Order

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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.

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	Modified cascaded multilevel inverter for renewable energy systems with less number of unidirectional switches. <i>Energy Reports</i> , 2022 , 8, 5296-5304	4.6	1
62	Fuzzy adaptive selfish herd optimization based optimal sliding mode controller for frequency stability enhancement of a microgrid 2021 , 33, 101071-101071		3
61	Frequency stability analysis with fuzzy adaptive selfish herd optimization based optimal sliding mode controller for microgrids. <i>International Journal of Emerging Electric Power Systems</i> , 2021 ,	1.4	1
60	Trapezoidal Triangular Carrier-Based PWM Scheme for Performance Enhanced in Multilevel Inverter. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 133-145	0.2	
59	Development and experimental realization of an adaptive neural-based discrete model predictive direct torque and flux controller for induction motor drive. <i>Applied Soft Computing Journal</i> , 2021 , 108, 107418	7.5	4
58	Modelling and Simulation of an Asymmetrical Modular Multilevel Inverter with Less Number of Components. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2020 , 30, 69-79	0.4	1
57	Development and implementation of induction motor drive using sliding-mode based simplified neuro-fuzzy control. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 91, 103593	7.2	11
56	Improved Sector-Based DTC-SVM for Induction Motor Drive Using Hybrid Fuzzy-PI Controller. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 415-428	0.2	1
55	Hybrid Sliding Mode Based Simplified NFC for Fuel Cell-Powered Linearized IM Drive. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 373-386	0.2	
54	Capacity value estimation of random solar power through associative searching in a k-d tree. <i>International Transactions on Electrical Energy Systems</i> , 2019 , 29, e12037	2.2	
53	Parameter estimation of single diode PV module based on GWO algorithm. <i>Renewable Energy Focus</i> , 2019 , 30, 1-12	5.4	44
52	A modified circuit for symmetric and asymmetric multilevel inverter with reduced components count. <i>International Transactions on Electrical Energy Systems</i> , 2019 , 29, e12011	2.2	14
51	Reduction in components using modified topology for asymmetrical multilevel inverter. <i>World Journal of Engineering</i> , 2019 , 16, 71-77	1.8	1
50	Design and realization of an auto-tuned modified neuro-fuzzy sliding-mode-based IM drive deploying feedback linearization. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2018 , 28, 28-42	0.4	2
49	Performance improvement of a STATCOM using fuzzy controller for isolated generator. <i>World Journal of Engineering</i> , 2018 , 15, 273-282	1.8	3
48	Parameter estimation of single diode PV module based on Nelder-Mead optimization algorithm. <i>World Journal of Engineering</i> , 2018 , 15, 70-81	1.8	6
47	A sliding mode controller-based STATCOM for voltage profile improvement of micro-grids. <i>World Journal of Engineering</i> , 2018 , 15, 283-291	1.8	4

46	Model predictive current controller for performance enhancement of grid-integrated single-phase photovoltaic distributed generation plants. <i>Transactions of the Institute of Measurement and Control</i> , 2018 , 40, 762-775	1.8	5
45	Current control strategies for single phase grid integrated inverters for photovoltaic applications-a review. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 92, 554-569	16.2	26
44	Modified Bridgeless SEPIC Rectifier for Power Factor Correction with Reduced Switch Stress Operating in Continuous Conduction Mode. <i>Journal of Circuits, Systems and Computers</i> , 2018 , 27, 1850127-9	0.9	4
43	New Topology for Asymmetrical Multilevel Inverter: An Effort to Reduced Device Count. <i>Journal of Circuits, Systems and Computers</i> , 2018 , 27, 1850055	0.9	12
42	Design and Implementation of a Feedback Linearization Controlled IM Drive via Simplified Neuro-Fuzzy Approach. <i>IETE Journal of Research</i> , 2018 , 64, 209-230	0.9	9
41	Reduction of circuit devices in symmetrical voltage source multilevel inverter based on series connection of basic unit cells. <i>AEJ - Alexandria Engineering Journal</i> , 2018 , 57, 2703-2712	6.1	9
40	Grid Voltage Sensorless Control of Single Phase Grid Tied Inverter for Renewable Energy Systems Applications. <i>Electric Power Components and Systems</i> , 2018 , 46, 1795-1807	1	3
39	Analysis of Wind Characteristics using ARMA & Weibull Distribution 2018 ,		1
38	An approach to estimate and control SEIG voltage and frequency using CORDIC algorithm. <i>Transactions of the Institute of Measurement and Control</i> , 2017 , 39, 861-871	1.8	2
37	Improvement of Power Quality Using a Robust Hybrid Series Active Power Filter. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 3490-3498	7.2	54
36	Design and experimental investigation of digital model predictive current controller for single phase grid integrated photovoltaic systems. <i>Renewable Energy</i> , 2017 , 108, 438-448	8.1	16
35	Adequacy assessment of a 2 area system with renewable integration. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2017 , 30, e2237	1	4
34	A review on MPPT techniques of PV system under partial shading condition. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 80, 854-867	16.2	193
33	Selection criteria of dc-dc converter and control variable for MPPT of PV system utilized in heating and cooking applications. <i>Cogent Engineering</i> , 2017 , 4, 1363357	1.5	15
32	Probabilistic estimation of capacity value of photovoltaic system 2017 ,		1
31	Modified Cascaded Multilevel Inverter with Reduced Component Count 2017 ,		3
30	Capacity value estimation of wind power incorporating hourly wind speed. <i>World Journal of Engineering</i> , 2017 , 14, 497-502	1.8	1
29	Implementation of feedback-linearization-modelled induction motor drive through an adaptive simplified neuro-fuzzy approach. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2017 , 42, 2113-2135	1	5

28	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. <i>Journal of Renewable and Sustainable Energy</i> , 2017 , 9, 064701	2.5	1
27	Symmetrical and asymmetrical multilevel inverter using less number of switches 2017 ,		2
26	Design and implementation of symmetric and asymmetric structure for multilevel inverter 2017 ,		2
25	Adequacy assessment of wind energy conversion system through simulating wind speed using weibull distribution 2017 ,		4
24	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. <i>Electric Power Components and Systems</i> , 2016 , 44, 1551-1563	1	
23	Optimal configuration for cascaded voltage source multilevel inverter based on series connection sub-multilevel inverter. <i>Cogent Engineering</i> , 2016 , 3, 1261470	1.5	11
22	Design of Passive Power Filter for Hybrid Series Active Power Filter using Estimation, Detection and Classification Method. <i>International Journal of Emerging Electric Power Systems</i> , 2016 , 17, 363-375	1.4	5
21	Fuzzy logic controller based STATCOM for voltage profile improvement in a micro-grid 2016 ,		1
20	Fault classification in SEIG system using Hilbert-Huang transform and least square support vector machine. <i>International Journal of Electrical Power and Energy Systems</i> , 2016 , 76, 11-22	5.1	22
19	Voltage profile improvement of micro-grids using SMC based STATCOM 2016 ,		1
18	Voltage and frequency stabilization of a micro hydro-PV based hybrid micro grid using STATCOM equipped with Battery Energy Storage System 2016 ,		5
17	A reduced MF-based self-tuned robust neuro-fuzzy control of a decoupling linearized IM drive 2016 ,		2
16	Experimental validation of a modular multilevel inverter with less number of switches 2016 ,		9
15	Real time implementation of an ANFIS-based induction motor drive via feedback linearization for performance enhancement 2016 , 19, 1714-1730		16
14	Performance enhancement of a linearized induction motor drive using ANFIS based torque controller 2015 ,		6
13	Fuzzy PI controller for improved voltage regulation in STATCOM based SEIG 2015 ,		2
12	Performance improvement of multilevel inverter through trapezoidal triangular carrier based PWM 2015 ,		2
11	Comparative analysis of THD for symmetrical and asymmetrical 17 level cascaded H-bridge inverter using carrier based PWM techniques 2015 ,		12

10	A novel method to determine minimum capacitance of the self-excited induction generator 2014,	3
9	Voltage profile improvement of a micro grid system using a DFIG based wind energy conversion system 2014,	1
8	Performance improvement of indirect vector controlled induction generator system with sliding mode controller 2012,	2
7	Sliding mode control of a feedback linearized induction motor using TS fuzzy based adaptive Iterative Learning Controller 2011,	2
6	Investigation on performance of Doubly-fed induction generator driven by wind turbine under grid voltage fluctuation 2011,	3
5	A Direct Torque Controlled Induction Motor with Variable Hysteresis Band 2009,	7
4	2008,	5
3	Performance improvement of wind turbine driven induction generator system 2008,	2
2	A Fast Edge Detection Algorithm for Road Boundary Extraction under Non-uniform Light Condition	1
1	Analytical approach to locate multiple power peaks of photovoltaic array under partial shading condition and hybrid array configuration schemes to reduce mismatch losses. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> ,1-22	1.6 3