

Debashisha Jena

List of Publications by Year in descending order

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85
papers

1,440
citations

361045

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all docs

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docs citations

85
times ranked

1207
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comparative Study of Different Capacitor Voltage Control Design Strategies for Z-Source Inverter. IETE Journal of Research, 2022, 68, 1443-1453.	1.8	6
2	A Correlative Investigation of Impedance Source Networks: A Comprehensive Review. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2022, 39, 506-539.	2.1	9
3	Uncertainty handling techniques in power systems: A critical review. Electric Power Systems Research, 2022, 203, 107633.	2.1	36
4	New Performance Evaluation Metrics for Outlier Detection and Correction. Advances in Sustainability Science and Technology, 2022, , 837-845.	0.4	0
5	Improved Gamma type Y-source inverter for rooftop PV based V-G applications. International Journal of Electrical Power and Energy Systems, 2022, 142, 108261.	3.3	3
6	Probabilistic Load Flow Considering Load and Wind Power Uncertainties using Modified Point Estimation Method. , 2022, , .		0
7	Review of preprocessing methods for univariate volatile time-series in power system applications. Electric Power Systems Research, 2021, 191, 106885.	2.1	28
8	A cost-effective single-phase semi flipped gamma type magnetically coupled impedance source inverters. International Journal of Circuit Theory and Applications, 2021, 49, 1078-1102.	1.3	3
9	An improved sliding window prediction-based outlier detection and correction for volatile time-series. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34, .	1.2	29
10	Comparative Evaluation of Basic Probabilistic Load Flow Methods with Wind Power Integration. , 2021, , .		2
11	A low voltage harvesting in photovoltaic generation systems using negative embedded Z-source inverter. International Transactions on Electrical Energy Systems, 2021, 31, e13018.	1.2	0
12	High efficiency two-phase switched-capacitor converter with seven distinct negative voltage ratios for power saving applications. International Journal of Electronics Letters, 2020, 8, 298-303.	0.7	0
13	A Negative Embedded Differential Mode \hat{r}^c -Source Inverter With Reduced Switching Spikes. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2009-2013.	2.2	10
14	Analysis of RCD snubber based non-ideal Z-source inverter using average modelling approaches. International Journal of Electronics, 2020, 107, 755-777.	0.9	3
15	Analysis, Design, and Performance Evaluation of Differential-Mode Y-Source Converters for Voltage Spikes Mitigation. IEEE Transactions on Industry Applications, 2020, 56, 6701-6710.	3.3	10
16	Short-Term PV Generation Forecasting Using Quantile Regression Averaging. , 2020, , .		8
17	Component Level Reliability Evaluation of Boost Converter, Z-Source, and Improved Gamma Type YSource Inverters. , 2020, , .		1
18	Multi-Time Instant Probabilistic PV Generation Forecasting Using Quantile Regression Forests. , 2020, , .		9

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19	Probabilistic Forecasting of Daily PV Generation Using Quantile Regression Method. , 2020, , .		2
20	Novel active clamped Yâ€source network for improved voltage boosting. IET Power Electronics, 2019, 12, 2005-2014.	1.5	13
21	Design Implementation of High Boost Embedded Semi Quasi-ZSI for Photovoltaic System Applications. , 2019, , .		0
22	Investigation of a family of dualâ€output coupled/decoupled switched capacitor converter for lowâ€power applications. IET Circuits, Devices and Systems, 2019, 13, 352-360.	0.9	1
23	Two Phase (Reconfigurable) Inverting Switched Capacitor Converter for Micro Power Applications and its Accurate Equivalent Resistance Calculation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1446-1450.	2.2	3
24	A spatiotemporal probabilistic modelâ€based temperatureâ€augmented probabilistic load flow considering PV generations. International Transactions on Electrical Energy Systems, 2019, 29, e2819.	1.2	27
25	Uncertainty Modeling Steps for Probabilistic Steady-State Analysis. Lecture Notes in Electrical Engineering, 2019, , 1169-1177.	0.3	6
26	Probabilistic Load Flow in a Transmission System Integrated with Photovoltaic Generations. Lecture Notes in Electrical Engineering, 2019, , 1159-1168.	0.3	0
27	Preprocessing of Multi-Time Instant PV Generation Data. IEEE Transactions on Power Systems, 2018, 33, 3189-3191.	4.6	29
28	An over-limit risk assessment of PV integrated power system using probabilistic load flow based on multi-time instant uncertainty modeling. Renewable Energy, 2018, 116, 367-383.	4.3	36
29	Backstepping terminal sliding mode control of robot manipulator using radial basis functional neural networks. Computers and Electrical Engineering, 2018, 67, 690-707.	3.0	34
30	Differential Mode Y-Source DC-DC Converter for Better Performance with Loosely Coupled Inductors. , 2018, , .		2
31	An Algorithm Steps to Solve Coupled Case for Dual Input Dual Output SCC. , 2018, , .		1
32	Gradient descent in sample-based single-query path planning algorithm. , 2018, , .		1
33	PSO based backstepping sliding mode controller and observer for robot manipulators. , 2018, , .		0
34	A critical analysis of Z-source converters considering the effects of internal resistances. International Journal of Electronics, 2018, 105, 1785-1803.	0.9	4
35	A detailed model of Z-source converter considering parasitic parameters. , 2018, , .		0
36	Sampling based motion planning of Ackermann steering system using transformation. , 2018, , .		1

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37	Practical limitations of embedded Z-source DC-DC converters in PV applications. , 2018, , .		3
38	A Sensitivity Matrix-Based Temperature-Augmented Probabilistic Load Flow Study. IEEE Transactions on Industry Applications, 2017, 53, 2506-2516.	3.3	37
39	Cumulant-based correlated probabilistic load flow considering photovoltaic generation and electric vehicle charging demand. Frontiers in Energy, 2017, 11, 184-196.	1.2	15
40	A critical review on probabilistic load flow studies in uncertainty constrained power systems with photovoltaic generation and a new approach. Renewable and Sustainable Energy Reviews, 2017, 69, 1286-1302.	8.2	147
41	PSO based neuro fuzzy sliding mode control for a robot manipulator. Journal of Electrical Systems and Information Technology, 2017, 4, 243-256.	1.2	31
42	Design, modeling and analysis of a new dual input-output switched capacitor converter. , 2017, , .		9
43	Differential mode gamma source inverter with reduced switching stresses. , 2017, , .		3
44	Combined cumulant and Gaussian mixture approximation for correlated probabilistic load flow studies: a new approach. CSEE Journal of Power and Energy Systems, 2016, 2, 71-78.	1.7	46
45	Estimation of optimal number of components in Gaussian mixture model-based probabilistic load flow study. , 2016, , .		3
46	Sub-period interleaved Fibonacci switched capacitor converter. , 2016, , .		2
47	An efficient hybrid technique for correlated probabilistic load flow study with photovoltaic generations. , 2016, , .		1
48	Mesh analysis by direct matrix manipulation a different approach. , 2016, , .		0
49	Control Strategy to Maximize Power Extraction in Wind Turbine. Distributed Generation and Alternative Energy Journal, 2016, 31, 27-49.	1.1	1
50	Design and implementation of sliding mode voltage controller for DC to DC buck converter by using hysteresis modulation and pulse width modulation. , 2016, , .		5
51	Intelligent adaptive observer-based optimal control of overhead transmission line de-icing robot manipulator. Advanced Robotics, 2016, 30, 1215-1227.	1.1	12
52	Design of series, $F(s) = F_1(s) + F_2(s)$ for the denominators (1, 2, 6) of switched capacitor converter. , 2016, , .		3
53	Nonlinear control of wind turbine with optimal power capture and load mitigation. Energy Systems, 2016, 7, 429-448.	1.8	9
54	Nonlinear control of a wind turbine based on nonlinear estimation techniques for maximum power extraction. International Journal of Green Energy, 2016, 13, 309-319.	2.1	9

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55	Evolutionary Computing Approaches to System Identification. Advances in Bioinformatics and Biomedical Engineering Book Series, 2016, , 329-368.	0.2	1
56	Modeling of correlated photovoltaic generations and load demands in probabilistic load flow. , 2015, , .		8
57	Load Mitigation and Optimal Power Capture for Variable Speed Wind Turbine in Region 2. Journal of Renewable Energy, 2015, 2015, 1-10.	2.1	1
58	Validation of an integral sliding mode control for optimal control of a three blade variable speed variable pitch wind turbine. International Journal of Electrical Power and Energy Systems, 2015, 69, 421-429.	3.3	125
59	Adaptive nonsingular terminal sliding mode control for variable speed wind turbine. , 2015, , .		2
60	Optimal backstepping sliding mode control for robot manipulator. , 2015, , .		1
61	Backstepping sliding mode control of a variable speed wind turbine for power optimization. Journal of Modern Power Systems and Clean Energy, 2015, 3, 402-410.	3.3	27
62	Maximum power point tracking of PV array under non-uniform irradiance using artificial neural network. , 2015, , .		9
63	Modeling, simulation & optimal control of non-linear PEM fuel cell with disturbance input. , 2015, , .		4
64	PID control design for the pressure regulation of PEM fuel cell. , 2015, , .		12
65	Modeling of photovoltaic system for uniform and non-uniform irradiance: A critical review. Renewable and Sustainable Energy Reviews, 2015, 52, 400-417.	8.2	92
66	A review of estimation of effective wind speed based control of wind turbines. Renewable and Sustainable Energy Reviews, 2015, 43, 1046-1062.	8.2	110
67	Control of Variable Speed Variable Pitch Wind Turbine at Above and Below Rated Wind Speed. Journal of Wind Energy, 2014, 2014, 1-14.	1.0	28
68	Backstepping Sliding Mode Control for variable speed wind turbine. , 2014, , .		6
69	Optimal GA based SMC with adaptive PID sliding surface for robot manipulator. , 2014, , .		3
70	ISMC based variable speed wind turbine for maximum power capture. , 2014, , .		0
71	Variable speed wind turbine for maximum power capture using adaptive fuzzy integral sliding mode control. Journal of Modern Power Systems and Clean Energy, 2014, 2, 114-125.	3.3	23
72	GA Based Adaptive Controller for 2DOF Robot Manipulator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 670-675.	0.4	3

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73	Simple and accurate method of modeling Photovoltaic module: A different approach. , 2013, , .		5
74	Nonlinear estimation and control of wind turbine. , 2013, , .		4
75	Second order ISMC for variable speed wind turbine. , 2013, , .		0
76	A continuous-discrete mode of optimal control of AGC for multi area hydrothermal system using genetic algorithm. , 2012, , .		6
77	Nonlinear system identification using memetic differential evolution trained neural networks. Neurocomputing, 2011, 74, 1696-1709.	3.5	47
78	A differential evolution based neural network approach to nonlinear system identification. Applied Soft Computing Journal, 2011, 11, 861-871.	4.1	148
79	Design of an error-based robust adaptive controller. , 2009, , .		5
80	An improved differential evolution trained neural network scheme for nonlinear system identification. International Journal of Automation and Computing, 2009, 6, 137-144.	4.5	20
81	Nonlinear system identification of a twin rotor MIMO system. , 2009, , .		14
82	Design of a robust neuro-controller for complex dynamic systems. , 2009, , .		3
83	Differential Evolution and Levenberg Marquardt Trained Neural Network Scheme for Nonlinear System Identification. Neural Processing Letters, 2008, 27, 285-296.	2.0	67
84	Memetic Differential Evolution Trained Neural Networks For Nonlinear System Identification. , 2008, , .		10
85	A combined differential evolution and neural network approach to nonlinear system identification. , 2008, , .		3