

Om Prakash Mahela

List of Publications by Citations

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133
papers

1,623
citations

21
h-index

37
g-index

173
ext. papers

2,379
ext. citations

4.2
avg, IF

5.89
L-index

#	Paper	IF	Citations
133	A critical review of detection and classification of power quality events. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 41, 495-505	16.2	211
132	Comprehensive overview of grid interfaced wind energy generation systems. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 57, 260-281	16.2	86
131	Comprehensive overview of grid interfaced solar photovoltaic systems. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 68, 316-332	16.2	84
130	Topological aspects of power quality improvement techniques: A comprehensive overview. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 58, 1129-1142	16.2	78
129	Power quality improvement in distribution network using DSTATCOM with battery energy storage system. <i>International Journal of Electrical Power and Energy Systems</i> , 2016 , 83, 229-240	5.1	72
128	Recognition of power quality disturbances using S-transform based ruled decision tree and fuzzy C-means clustering classifiers. <i>Applied Soft Computing Journal</i> , 2017 , 59, 243-257	7.5	68
127	Comprehensive Overview of Low Voltage Ride Through Methods of Grid Integrated Wind Generator. <i>IEEE Access</i> , 2019 , 7, 99299-99326	3.5	64
126	Power Quality Assessment and Event Detection in Distribution Network With Wind Energy Penetration Using Stockwell Transform and Fuzzy Clustering. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 6922-6932	11.9	60
125	Power quality assessment and event detection in hybrid power system. <i>Electric Power Systems Research</i> , 2018 , 161, 26-44	3.5	59
124	Power quality recognition in distribution system with solar energy penetration using S-transform and Fuzzy C-means clustering. <i>Renewable Energy</i> , 2017 , 106, 37-51	8.1	56
123	Comprehensive Review on Detection and Classification of Power Quality Disturbances in Utility Grid With Renewable Energy Penetration. <i>IEEE Access</i> , 2020 , 8, 146807-146830	3.5	49
122	A review of distribution static compensator. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 50, 531-546	16.2	45
121	Comprehensive Review of Distributed FACTS Control Algorithms for Power Quality Enhancement in Utility Grid With Renewable Energy Penetration. <i>IEEE Access</i> , 2020 , 8, 107614-107634	3.5	44
120	Assessment of power quality in the utility grid integrated with wind energy generation. <i>IET Power Electronics</i> , 2020 , 13, 2917-2925	2.2	38
119	Wigner distribution function and alienation coefficient-based transmission line protection scheme. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 1842-1853	2.5	29
118	An Algorithm for Recognition of Fault Conditions in the Utility Grid with Renewable Energy Penetration. <i>Energies</i> , 2020 , 13, 2383	3.1	25
117	Power Quality Detection in Distribution System with Wind Energy Penetration Using Discrete Wavelet Transform 2015 ,		25

116	. <i>IEEE Access</i> , 2020 , 8, 181375-181403	3.5	24
115	Alienation Coefficient and Wigner Distribution Function Based Protection Scheme for Hybrid Power System Network with Renewable Energy Penetration. <i>Energies</i> , 2020 , 13, 1120	3.1	23
114	Plant Biology-Inspired Genetic Algorithm: Superior Efficiency to Firefly Optimizer. <i>Springer Tracts in Nature-inspired Computing</i> , 2020 , 193-219	1.8	22
113	Detection of power quality events associated with grid integration of 100kW solar PV plant 2015 ,		21
112	A Protection Scheme for a Power System with Solar Energy Penetration. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1516	2.6	21
111	Optimal expansion planning of distribution system using grid-based multi-objective harmony search algorithm. <i>Computers and Electrical Engineering</i> , 2020 , 87, 106823	4.3	20
110	A Hybrid Fault Recognition Algorithm Using Stockwell Transform and Wigner Distribution Function for Power System Network with Solar Energy Penetration. <i>Energies</i> , 2020 , 13, 3519	3.1	18
109	Wavelet-Alienation-Neural-Based Protection Scheme for STATCOM Compensated Transmission Line. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 2557-2565	11.9	16
108	Recognition of Complex Power Quality Disturbances Using S-Transform Based Ruled Decision Tree. <i>IEEE Access</i> , 2020 , 8, 173530-173547	3.5	15
107	Incremental Conductance Based Particle Swarm Optimization Algorithm for Global Maximum Power Tracking of Solar-PV under Nonuniform Operating Conditions. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4575	2.6	15
106	Detection of transmission line faults using discrete wavelet transform 2016 ,		14
105	Recognition of Power Quality Issues Associated With Grid Integrated Solar Photovoltaic Plant in Experimental Framework. <i>IEEE Systems Journal</i> , 2021 , 15, 3740-3748	4.3	14
104	Mendelian evolutionary theory optimization algorithm. <i>Soft Computing</i> , 2020 , 24, 14345-14390	3.5	13
103	Recognition of Islanding and Operational Events in Power System With Renewable Energy Penetration Using a Stockwell Transform-Based Method. <i>IEEE Systems Journal</i> , 2020 , 1-10	4.3	11
102	Recognition of power quality disturbances using S-transform and Fuzzy C-means clustering 2016 ,		10
101	Detection and Classification of Complex Power Quality Disturbances Using Stockwell Transform and Rule Based Decision Tree 2018 ,		10
100	. <i>IEEE Access</i> , 2020 , 8, 229184-229200	3.5	9
99	Effect of Various Incremental Conductance MPPT Methods on the Charging of Battery Load Feed by Solar Panel. <i>IEEE Access</i> , 2021 , 1-1	3.5	9

98	Reactive power flow control using Static VAR Compensator to improve voltage stability in transmission system 2016 ,		8
97	Convolutional Neural Networks with Transfer Learning for Recognition of COVID-19: A Comparative Study of Different Approaches. <i>AI</i> , 2020 , 1, 586-606	3.6	8
96	Recognition of power quality disturbances using S-transform and rule-based decision tree 2016 ,		8
95	Comprehensive Overview of Power System Flexibility during the Scenario of High Penetration of Renewable Energy in Utility Grid. <i>Energies</i> , 2022 , 15, 516	3.1	7
94	Reliability enhancement and voltage profile improvement of distribution network using optimal capacity allocation and placement of distributed energy resources. <i>Computers and Electrical Engineering</i> , 2021 , 93, 107295	4.3	7
93	Development of Stand-Alone Green Hybrid System for Rural Areas. <i>Sustainability</i> , 2020 , 12, 3808	3.6	6
92	Development of arduino assisted data acquisition system for solar photovoltaic array characterization under partial shading conditions. <i>Computers and Electrical Engineering</i> , 2021 , 92, 107175	4.3	6
91	Impact of grid disturbances on the output of grid connected solar photovoltaic system 2016 ,		5
90	Optimal capacitor placement in distribution system using genetic algorithm 2016 ,		5
89	Implementation of Thyristor controlled series capacitor in transmission system to improve the performance of power system network 2017 ,		5
88	Optimal Capacitor Placement Techniques in Transmission and Distribution Networks to Reduce Line Losses and Voltage Stability Enhancement: A Review. <i>IOSR Journal of Electrical and Electronics Engineering</i> , 2012 , 3, 01-08		5
87	Distribution network reliability enhancement and power loss reduction by optimal network reconfiguration. <i>Computers and Electrical Engineering</i> , 2021 , 96, 107518	4.3	5
86	Tracing the Points in Search Space in Plant Biology Genetics Algorithm Optimization. <i>Springer Tracts in Nature-inspired Computing</i> , 2020 , 180-195	1.8	5
85	Shade dispersion methodologies for performance improvement of classical total cross-tied photovoltaic array configuration under partial shading conditions. <i>IET Renewable Power Generation</i> , 2021 , 15, 1796-1811	2.9	5
84	Protection Scheme using Wavelet-Alienation-Neural Technique for UPFC Compensated Transmission Line. <i>IEEE Access</i> , 2021 , 9, 13737-13753	3.5	5
83	Detection of Power System Faults in Distribution System Using Stockwell Transform 2018 ,		5
82	A Stockwell Transform Based Approach for Detection of Transmission Line Faults in the Presence of Thyristor Controlled Reactor 2018 ,		5
81	Detection of transmission line faults in the presence of solar PV generation using discrete wavelet 2016 ,		4

80	A double input SMV controlled DC/DC buck-boost converter for solar PV/wind energy sources 2014		4
79	Design and Performance Analysis of Hybrid Battery and Ultracapacitor Energy Storage System for Electrical Vehicle Active Power Management. <i>Sustainability</i> , 2022 , 14, 776	3.6	4
78	Mendelian Evolutionary Theory Optimization Algorithm		4
77	Voltage-Based Hybrid Algorithm Using Parameter Variations and Stockwell Transform for Islanding Detection in Utility Grids. <i>Informatics</i> , 2021 , 8, 21	2.2	4
76	A Novel k -Means Clustering and Weighted k -NN-Regression-Based Fast Transmission Line Protection. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 6034-6043	11.9	4
75	Detection of transmission line faults in the presence of solar PV system using stockwell's transform 2016 ,		3
74	Plant Genetics-Inspired Evolutionary Optimization: A Descriptive Tutorial. <i>Springer Tracts in Nature-inspired Computing</i> , 2020 , 53-77	1.8	3
73	Hybridization of the Stockwell Transform and Wigner Distribution Function to Design a Transmission Line Protection Scheme. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7985	2.6	3
72	Harmonics Mitigation in Industrial Sector by using Space Vector PWM and Shunt Active Power Filter 2020 ,		3
71	Combined Stockwell and Hilbert Transforms Based Technique for the Detection of Islanding Events in Hybrid Power System 2020 ,		3
70	Detection of Power quality disturbances using discrete wavelet transform 2016 ,		3
69	Analysing integration issues of the microgrid system with utility grid network. <i>International Journal of Emerging Electric Power Systems</i> , 2021 , 22, 113-127	1.4	3
68	Recognition of Power Quality Disturbances Using Discrete Wavelet Transform and Fuzzy C-means Clustering 2018 ,		3
67	Detection and Classification of Complex Power Quality Disturbances Using Hilbert Transform and Rule Based Decision Tree 2018 ,		3
66	An Algorithm Based on Hilbert Transform and Rule Based Decision Tree Classification of Power Quality Disturbances 2018 ,		3
65	Detection and Classification of Transmission Line Faults Using Empirical Mode Decomposition and Rule Based Decision Tree Based Algorithm 2018 ,		3
64	Detection of Power Quality Disturbances in Utility Grid with Solar Photovoltaic Energy Penetration 2018 ,		3
63	Harmonic mitigation and power quality improvement in utility grid with solar energy penetration using distribution static compensator. <i>IET Power Electronics</i> , 2021 , 14, 912-922	2.2	3

62	Optimal Placement of Renewable Energy Generators Using Grid-Oriented Genetic Algorithm for Loss Reduction and Flexibility Improvement. <i>Energies</i> , 2022 , 15, 1863	3.1	3
61	Recognition of Power Quality Disturbances Using Hybrid Algorithm Based on Combined Features of Stockwell Transform and Hilbert Transform 2020 ,		2
60	Detection of transmission line faults in the presence of thyristor controlled reactor using discrete wavelet transform 2016 ,		2
59	Detection of transmission line faults in the presence of wind power generation using discrete wavelet transform 2016 ,		2
58	Power Quality Improvement in Renewable Energy Sources Based Power System Using DSTATCOM Supported by Battery Energy Storage System 2019 ,		2
57	Experimental investigation of power quality disturbances associated with grid integrated wind energy system 2017 ,		2
56	Feasibility Analysis and Development of Stand-Alone Hybrid Power Generation System for Remote Areas: A Case Study of Ethiopian Rural Area. <i>Wind</i> , 2022 , 2, 68-86		2
55	Optimal integration of DSTATCOM using improved bacterial search algorithm for distribution network optimization. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 61, 5539-5539	6.1	2
54	Mendelian Evolutionary Theory Optimization Algorithm		2
53	Detection and Analysis of Power System Faults in the Presence of Wind Power Generation Using Stockwell Transform Based Median. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 319-329	0.2	2
52	Detection and Classification of Complex Power Quality Disturbances Using Hybrid Algorithm Based on Combined Features of Stockwell Transform and Hilbert Transform 2020 ,		2
51	A multivariable transmission line protection scheme using signal processing techniques. <i>IET Generation, Transmission and Distribution</i> , 2021 , 15, 3115	2.5	2
50	. <i>IEEE Access</i> , 2021 , 9, 93781-93794	3.5	2
49	Detection and Classification of Power System Faults using Discrete Wavelet Transform and Rule Based Decision Tree 2018 ,		2
48	Detection and Classification of Transmission Line Faults Using Stockwell Transform and Rule Based Decision Tree 2018 ,		2
47	A protection scheme for distribution utility grid with wind energy penetration. <i>Computers and Electrical Engineering</i> , 2021 , 94, 107324	4.3	2
46	Integration of Renewable Based Distributed Generation for Distribution Network Expansion Planning. <i>Energies</i> , 2022 , 15, 1378	3.1	2
45	Experimental Investigations on Particle Swarm Optimization Based Control Algorithm for Shunt Active Power Filter to Enhance Electric Power Quality. <i>IEEE Access</i> , 2022 , 10, 54878-54890	3.5	2

44	Mitigation of Low-Frequency Oscillation in Power Systems through Optimal Design of Power System Stabilizer Employing ALO. <i>Energies</i> , 2022 , 15, 3809	3.1	2
43	A Current Based Algorithm Using Harmonic Wavelet Transform and Rule Based Decision Tree for Transmission Line Protection 2019 ,		1
42	Transmission Line Protection Scheme Based on Combined Features of Stockwell Transform and Hilbert Transform 2020 ,		1
41	Algorithm Based on Combined Features of Stockwell Transform and Hilbert Transform for Detection of Transmission Line Faults with Dynamic Load 2020 ,		1
40	Voltage Based Transmission Line Protection Algorithm Using Signal Processing Techniques 2020 ,		1
39	Protection of Distribution Feeder Using Stockwell Transform Supported Voltage Features 2020 ,		1
38	K-means Clustering and Linear Regression Based Protection Scheme for Transmission Line 2020 ,		1
37	Managing Energy Plus Performance in Data Centers and Battery-Based Devices Using an Online Non-Clairvoyant Speed-Bounded Multiprocessor Scheduling. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2459	2.6	1
36	Analysis of capacitor cells failure due to circuit breaker pole discrepancy in RRVPNL power grid 2014 ,		1
35	Analysis of high voltage shunt capacitor bank on reduced capacity: The case of RRVPNL power grid 2013 ,		1
34	Identification and Classification of Faults in Utility Grid with Solar Energy Using Discrete Wavelet Transform and Decision Rules 2020 ,		1
33	Recognition and Mitigation of Power Quality Disturbances in Renewable Energy Interfaced Hybrid Power Grid 2020 ,		1
32	Mitigation of power evacuation constraints associated with transmission system of Kawai-Kalisindh-Chhabra thermal power complex in Rajasthan, India. <i>AIMS Energy</i> , 2020 , 8, 394-420	1.8	1
31	Transmission Line Protection Schemes Based on Wigner Distribution Function and Discrete Wavelet Transform 2020 ,		1
30	A Current Based Hybrid Algorithm using Discrete Wavelet Transform and Hilbert Transform for Detection and Classification of Power System Faults in the Presence of Solar Energy 2020 ,		1
29	A Voltage Based Technique Using Combined Features of Stockwell Transform and Hilbert Transform for Detection of Islanding Events 2020 ,		1
28	Hybrid Algorithm for Detection of Events and Power Quality Disturbances Associated with Distribution Network in the Presence of Wind Energy 2021 ,		1
27	Events Recognition and Power Quality Estimation in Distribution Network in the Presence of Solar PV Generation 2021 ,		1

26	2019,			1
25	. <i>IEEE Access</i> , 2021 , 9, 69798-69813		3.5	1
24	A Technique Using Stockwell Transform Based Median for Detection of Power System Faults 2018 ,			1
23	Detection of Saturation of Core of Current Transformer Using Combined Feature of Hilbert Transform and Stockwell Transform 2018 ,			1
22	A Fusion-Based Hybrid-Feature Approach for Recognition of Unconstrained Offline Handwritten Hindi Characters. <i>Future Internet</i> , 2021 , 13, 239		3.3	1
21	Islanding detection in utility grid with renewable energy using rate of change of frequency and signal processing technique. <i>AIMS Electronics and Electrical Engineering</i> , 2022 , 6, 144-160		1	1
20	Mitigating Generation Schedule Deviation of Wind Farm Using Battery Energy Storage System. <i>Energies</i> , 2022 , 15, 1768		3.1	1
19	Design and Implementation of Hybrid Transmission Line Protection Scheme Using Signal Processing Techniques. <i>International Transactions on Electrical Energy Systems</i> , 2022 , 2022, 1-20		2.2	1
18	Performance Evaluation of a MW-Size Grid-Connected Solar Photovoltaic Plant Considering the Impact of Tilt Angle. <i>Sustainability</i> , 2022 , 14, 1444		3.6	0
17	Impressions of remote area electrification on social and economic indicators. <i>AIMS Energy</i> , 2020 , 8, 1045-1068		1.68	0
16	Recognition of complex and multiple power quality disturbances using wavelet packet-based fast kurtogram and ruled decision tree algorithm. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2021 , 12, 2150032		0.8	0
15	A Hybrid Signal Processing Technique for Recognition of Complex Power Quality Disturbances. <i>Electric Power Systems Research</i> , 2022 , 207, 107865		3.5	0
14	Human resource training to implement transmission schemes for renewable power evacuation in India. <i>Utilities Policy</i> , 2022 , 76, 101376		3.3	0
13	Restructuring of Transmission Network to Cater Load Demand in Northern Parts of Rajasthan Using Renewable Energy. <i>Algorithms for Intelligent Systems</i> , 2022 , 193-212		0.5	0
12	Hybrid signal processing technique to design smart meter for detection of voltage amplitude disturbances 2022 , 361-377			0
11	Analyzing the Association between Pattern and Returns Using Goodman-Kruskal Prediction Error Reduction Index (GKPRE) <i>Complexity</i> , 2022 , 2022, 1-8		1.6	
10	Identification and classification of faults using Stockwell transform and decision rule 2022 , 439-455			
9	Reactive power compensation for voltage variation mitigation in grid with renewable energy 2022 , 415-426			

- 8 DC smart micro grid protection system **2022**, 427-437
- 7 Capacity-based optimization using whale optimization technique of a power distribution network. *Engineering Reports*, e12455 1.2
- 6 Internet of Things and Machine Learning for Improving Solar-PV Plant Efficiency **2021**, 279-296
- 5 Higher Levels of Wind Energy Penetration into the Remote Grid **2021**, 261-277
- 4 A Sustainable Building Lightning Solution for Energy Conservation in Different Geographical Conditions **2021**, 539-571
- 3 Power Quality Mitigation in a Distribution Network Using a Battery Energy Storage System **2021**, 51-68
- 2 Multivariable passive method for detection of islanding events in renewable energy based power grids. *IET Renewable Power Generation*, **2022**, 16, 497-516 2.9
- 1 Automatic analysis of the heart sound signal to build smart healthcare system **2022**, 151-188