# Om Prakash Mahela

List of Publications by Year
in descending order

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|---|---|---|---|
| 162 papers | 3,008 citations | 201385 27 h-index | 197535 49 g-index |
| 173 all docs | 173 docs citations | 173 times ranked | 1597 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 1 | A critical review of detection and classification of power quality events. Renewable and Sustainable Energy Reviews, 2015, 41, 495-505. | 8.2 | 316 |
| 2 | Comprehensive Overview of Low Voltage Ride Through Methods of Grid Integrated Wind Generator. IEEE Access, 2019, 7, 99299-99326. | 2.6 | 142 |
| 3 | Comprehensive overview of grid interfaced wind energy generation systems. Renewable and Sustainable Energy Reviews, 2016, 57, 260-281. | 8.2 | 127 |
| 4 | Comprehensive overview of grid interfaced solar photovoltaic systems. Renewable and Sustainable Energy Reviews, 2017, 68, 316-332. | 8.2 | 121 |
| 5 | Topological aspects of power quality improvement techniques: A comprehensive overview. Renewable and Sustainable Energy Reviews, 2016, 58, 1129-1142. | 8.2 | 115 |
| 6 | Comprehensive Review on Detection and Classification of Power Quality Disturbances in Utility Grid With Renewable Energy Penetration. IEEE Access, 2020, 8, 146807-146830. | 2.6 | 112 |
| 7 | Power Quality Assessment and Event Detection in Distribution Network With Wind Energy Penetration Using Stockwell Transform and Fuzzy Clustering. IEEE Transactions on Industrial Informatics, 2020, 16, 6922-6932. | 7.2 | 107 |
| 8 | Power quality improvement in distribution network using DSTATCOM with battery energy storage system. International Journal of Electrical Power and Energy Systems, 2016, 83, 229-240. | 3.3 | 100 |
| 9 | Recognition of power quality disturbances using S-transform based ruled decision tree and fuzzy C-means clustering classifiers. Applied Soft Computing Journal, 2017, 59, 243-257. | 4.1 | 95 |
| 10 | Comprehensive Review of Distributed FACTS Control Algorithms for Power Quality Enhancement in Utility Grid With Renewable Energy Penetration. IEEE Access, 2020, 8, 107614-107634. | 2.6 | 93 |
| 11 | Power quality assessment and event detection in hybrid power system. Electric Power Systems Research, 2018, 161, 26-44. | 2.1 | 86 |
| 12 | Power quality recognition in distribution system with solar energy penetration using S -transform and Fuzzy C-means clustering. Renewable Energy, 2017, 106, 37-51. | 4.3 | 82 |
| 13 | Impact of Partial Shading on Various PV Array Configurations and Different Modeling Approaches: A Comprehensive Review. IEEE Access, 2020, 8, 181375-181403. | 2.6 | 67 |
| 14 | A review of distribution static compensator. Renewable and Sustainable Energy Reviews, 2015, 50, 531-546. | 8.2 | 64 |
| 15 | Wigner distribution function and alienation coefficientâ€based transmission line protection scheme. IET Generation, Transmission and Distribution, 2020, 14, 1842-1853. | 1.4 | 56 |
| 16 | Assessment of power quality in the utility grid integrated with wind energy generation. IET Power Electronics, 2020, 13, 2917-2925. | 1.5 | 49 |
| 17 | Power Quality Detection in Distribution System with Wind Energy Penetration Using Discrete Wavelet Transform. , 2015, , . |  | 45 |
| 18 | Effect of Various Incremental Conductance MPPT Methods on the Charging of Battery Load Feed by Solar Panel. IEEE Access, 2021, 9, 90977-90988. | 2.6 | 44 |

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| 19 | Detection of power quality events associated with grid integration of 100kW solar PV plant. , 2015, , . | | 41 |
| 20 | Recognition of Complex Power Quality Disturbances Using S-Transform Based Ruled Decision Tree. IEEE Access, 2020, 8, 173530-173547. | 2.6 | 40 |
| 21 | Alienation Coefficient and Wigner Distribution Function Based Protection Scheme for Hybrid Power System Network with Renewable Energy Penetration. Energies, 2020, 13, 1120. | 1.6 | 37 |
| 22 | An Algorithm for Recognition of Fault Conditions in the Utility Grid with Renewable Energy Penetration. Energies, 2020, 13, 2383. | 1.6 | 36 |
| 23 | A Protection Scheme for a Power System with Solar Energy Penetration. Applied Sciences (Switzerland), 2020, 10, 1516. | 1.3 | 33 |
| 24 | Incremental Conductance Based Particle Swarm Optimization Algorithm for Global Maximum Power Tracking of Solar-PV under Nonuniform Operating Conditions. Applied Sciences (Switzerland), 2020, 10, 4575. | 1.3 | 31 |
| 25 | Wavelet-Alienation-Neural-Based Protection Scheme for STATCOM Compensated Transmission Line. IEEE Transactions on Industrial Informatics, 2021, 17, 2557-2565. | 7.2 | 31 |
| 26 | Recognition of Power Quality Issues Associated With Grid Integrated Solar Photovoltaic Plant in Experimental Framework. IEEE Systems Journal, 2021, 15, 3740-3748. | 2.9 | 29 |
| 27 | Comprehensive Overview of Power System Flexibility during the Scenario of High Penetration of Renewable Energy in Utility Grid. Energies, 2022, 15, 516. | 1.6 | 29 |
| 28 | A Hybrid Fault Recognition Algorithm Using Stockwell Transform and Wigner Distribution Function for Power System Network with Solar Energy Penetration. Energies, 2020, 13, 3519. | 1.6 | 28 |
| 29 | Optimal expansion planning of distribution system using grid-based multi-objective harmony search algorithm. Computers and Electrical Engineering, 2020, 87, 106823. | 3.0 | 28 |
| 30 | Detection of transmission line faults using discrete wavelet transform. , 2016, , . | | 27 |
| 31 | Mendelian evolutionary theory optimization algorithm. Soft Computing, 2020, 24, 14345-14390. | 2.1 | 27 |
| 32 | Protection Scheme using Wavelet-Alienation-Neural Technique for UPFC Compensated Transmission Line. IEEE Access, 2021, 9, 13737-13753. | 2.6 | 27 |
| 33 | Recognition of Islanding and Operational Events in Power System With Renewable Energy Penetration Using a Stockwell Transform-Based Method. IEEE Systems Journal, 2022, 16, 166-175. | 2.9 | 24 |
| 34 | A Hybrid Algorithm for Recognition of Power Quality Disturbances. IEEE Access, 2020, 8, 229184-229200. | 2.6 | 24 |
| 35 | Design and Performance Analysis of Hybrid Battery and Ultracapacitor Energy Storage System for Electrical Vehicle Active Power Management. Sustainability, 2022, 14, 776. | 1.6 | 24 |
| 36 | Reliability enhancement and voltage profile improvement of distribution network using optimal capacity allocation and placement of distributed energy resources. Computers and Electrical Engineering, 2021, 93, 107295. | 3.0 | 20 |

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| 37 | Convolutional Neural Networks with Transfer Learning for Recognition of COVID-19: A Comparative Study of Different Approaches. AI, 2020, 1, 586-606. | 2.1 | 20 |
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| 41 | Reactive power flow control using Static VAR Compensator to improve voltage stability in transmission system. , 2016, , . | | 15 |
| 42 | Detection and Classification of Complex Power Quality Disturbances Using Stockwell Transform and Rule Based Decision Tree. , 2018, , . | | 15 |
| 43 | Development of arduino assisted data acquisition system for solar photovoltaic array characterization under partial shading conditions. Computers and Electrical Engineering, 2021, 92, 107175. | 3.0 | 15 |
| 44 | Integration of Renewable Based Distributed Generation for Distribution Network Expansion Planning. Energies, 2022, 15, 1378. | 1.6 | 15 |
| 45 | Detection and Classification of Power System Faults using Discrete Wavelet Transform and Rule Based Decision Tree. , 2018, , . | | 14 |
| 46 | A Novel $k$-Means Clustering and Weighted $k$-NN-Regression-Based Fast Transmission Line Protection. IEEE Transactions on Industrial Informatics, 2021, 17, 6034-6043. | 7.2 | 14 |
| 47 | Experimental Investigations on Particle Swarm Optimization Based Control Algorithm for Shunt Active Power Filter to Enhance Electric Power Quality. IEEE Access, 2022, 10, 54878-54890. | 2.6 | 13 |
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| 51 | A double input SMV controlled DC/DC buck-boost converter for solar PV/wind energy sources. , 2014, , . | | 10 |
| 52 | Recognition of power quality disturbances using S-transform and Fuzzy C-means clustering. , 2016, , . | | 10 |
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| 54 | Detection and Classification of Transmission Line Faults Using Stockwell Transform and Rule Based Decision Tree. , 2018, , . | | 10 |

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| 55 | A multivariable transmission line protection scheme using signal processing techniques. IET Generation, Transmission and Distribution, 2021, 15, 3115-3137. | 1.4 | 10 |
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| 57 | Recognition of power quality disturbances using S-transform and rule-based decision tree. , 2016, , . | | 9 |
| 58 | Impact of grid disturbances on the output of grid connected solar photovoltaic system. , 2016, , . | | 9 |
| 59 | Detection of transmission line faults in the presence of solar PV generation using discrete wavelet. , 2016, , . | | 9 |
| 60 | A Stockwell Transform Based Approach for Detection of Transmission Line Faults in the Presence of Thyristor Controlled Reactor. , 2018, , . | | 9 |
| 61 | Hybridization of the Stockwell Transform and Wigner Distribution Function to Design a Transmission Line Protection Scheme. Applied Sciences (Switzerland), 2020, 10, 7985. | 1.3 | 9 |
| 62 | Development of Stand-Alone Green Hybrid System for Rural Areas. Sustainability, 2020, 12, 3808. | 1.6 | 9 |
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| 70 | Detection of transmission line faults in the presence of solar PV system using stockwell's transform. , 2016, , . | | 7 |
| 71 | Implementation of Thyristor controlled series capacitor in transmission system to improve the performance of power system network. , 2017, , . | | 7 |
| 72 | Detection of Power System Faults in Distribution System Using Stockwell Transform. , 2018, , . | | 7 |

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| 74 | Analysis of high voltage shunt capacitor bank on reduced capacity: The case of RRVPNL power grid. , 2013, , . | | 6 |
| 75 | Recognition of Power Quality Disturbances Using Discrete Wavelet Transform and Fuzzy C-means Clustering. , 2018, , . | | 6 |
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| 78 | An Algorithm Based on Hilbert Transform and Rule Based Decision Tree Classification of Power Quality Disturbances. , 2018, , . | | 6 |
| 79 | Analysing integration issues of the microgrid system with utility grid network. International Journal of Emerging Electric Power Systems, 2021, 22, 113-127. | 0.6 | 6 |
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| 87 | Detection and Classification of Complex Power Quality Disturbances Using Hybrid Algorithm Based on Combined Features of Stockwell Transform and Hilbert Transform. , 2020, , . | | 5 |
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| 93 | Harmonics Mitigation in Industrial Sector by using Space Vector PWM and Shunt Active Power Filter. , 2020, , . | | 4 |
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| 96 | Hybrid Algorithm for Detection of Events and Power Quality Disturbances Associated with Distribution Network in the Presence of Wind Energy. , 2021, , . | | 4 |
| 97 | Plant Genetics-Inspired Evolutionary Optimization: A Descriptive Tutorial. Springer Tracts in Nature-inspired Computing, 2020, , 53-77. | 1.2 | 4 |
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| 99 | Design and Implementation of Hybrid Transmission Line Protection Scheme Using Signal Processing Techniques. International Transactions on Electrical Energy Systems, 2022, 2022, 1-20. | 1.2 | 4 |
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| 101 | Detection of Power Quality Disturbances in Utility Grid with Wind Energy Penetration. , 2018, , . | | 3 |
| 102 | Investigation of Power Quality Events in Distribution Network with Wind Energy Penetration. , 2018, , . | | 3 |
| 103 | Detection of Transmission Line Faults in the Presence of Wind Energy Power Generation Source Using Stockwellâ€™s Transform. , 2019, , . | | 3 |
| 104 | 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, , . | | 3 |
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| 107 | A Discrete Wavelet Transform and Rule Based Decision Tree Based Technique for Identification of Fault in Utility Grid Network with Wind Energy. , 2021, , . | | 3 |
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| 112 | Detection of transmission line faults in the presence of thyristor controlled reactor using discrete wavelet transform. , 2016, , . | | 2 |
| 113 | Analysis of faults on series compensated EHV transmission line in the presence of wind generation. , 2016, , . | | 2 |
| 114 | Detection of power quality disturbances in the utility grid using stockwell transform. , 2016, , . | | 2 |
| 115 | Detection of Saturation of Core of Current Transformer Using Combined Feature of Hilbert Transform and Stockwell Transform. , 2018, , . | | 2 |
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| 118 | Detection of Transmission Line Faults in the Presence of Thyristor Switched Capacitor Using Stockwell Transform. , 2018, , . | | 2 |
| 119 | A Current Based Algorithm Using Harmonic Wavelet Transform and Rule Based Decision Tree for Transmission Line Protection. , 2019, , . | | 2 |
| 120 | A Voltage Based Technique Using Combined Features of Stockwell Transform and Hilbert Transform for Detection of Islanding Events. , 2020, , . | | 2 |
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| 127 | Detection of transmission line faults in the presence of dynamic load using stockwell's transform. , 2016, , . | | 1 |
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| 130 | Transmission Line Protection Scheme Based on Combined Features of Stockwell Transform and Hilbert Transform. , 2020, , . | | 1 |
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| 134 | Capacityâ€based optimization using whale optimization technique of a power distribution network. Engineering Reports, 0, , e12455. | 0.9 | 1 |
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| 137 | Human resource training to implement transmission schemes for renewable power evacuation in India. Utilities Policy, 2022, 76, 101376. | 2.1 | 1 |
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| 142 | Hybrid signal processing technique to design smart meter for detection of voltage amplitude disturbances. , 2022, , 361-377. | | 1 |
| 143 | Detection of transmission line faults in the presence of thyristor switched capacitor using discrete wavelet transform. , 2016, , . | | 0 |
| 144 | Detection of power quality disturbances in the utility grid with wind energy penetration using stockwell's transform. , 2016, , . | | 0 |

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| 146 | Power System Oscillations Damping During Faulty Events in the Presence of Linear Load. , 2018, , . | | 0 |
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| 148 | Transient Performance of a Series Compensated 765 kV Transmission Line During Faulty Conditions. , 2018, , . | | 0 |
| 149 | Recognition of Faults in Grid Connected Solar Photovoltaic Farm Using Current Features Evaluated Using Stockwell Transform Based Algorithm. , 2020, , . | | 0 |
| 150 | Estimation of Faults in Grid Connected Solar Photovoltaic Farm Using Voltage Based Median and Summing Values Features of Stockwell Transform Based Algorithm. , 2020, , . | | 0 |
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| 152 | Current Based Transmission Line Protection Algorithm Using Signal Processing Techniques. , 2020, , . | | 0 |
| 153 | Optimal Generation Mix Based Design of Grid Integrated Hybrid Renewable Energy Farm with Common DC bus and Performance Evaluation. , 2020, , . | | 0 |
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