

Muhammad Khalid

List of Publications by Citations

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115
papers

1,730
citations

23
h-index

38
g-index

157
ext. papers

2,506
ext. citations

4.6
avg, IF

6.04
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 115 | Optimal sizing of a wind/solar/battery hybrid grid-connected microgrid system. <i>IET Renewable Power Generation</i> , 2018 , 12, 72-80 | 2.9 | 147 |
| 114 | A model predictive control approach to the problem of wind power smoothing with controlled battery storage. <i>Renewable Energy</i> , 2010 , 35, 1520-1526 | 8.1 | 124 |
| 113 | . <i>IEEE Transactions on Power Systems</i> , 2012 , 27, 579-586 | 7 | 100 |
| 112 | A review on the selected applications of forecasting models in renewable power systems. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 100, 9-21 | 16.2 | 86 |
| 111 | . <i>IEEE Access</i> , 2017 , 5, 25897-25912 | 3.5 | 76 |
| 110 | Improving Wind Farm Dispatch in the Australian Electricity Market With Battery Energy Storage Using Model Predictive Control. <i>IEEE Transactions on Sustainable Energy</i> , 2013 , 4, 745-755 | 8.2 | 75 |
| 109 | Minimization and control of battery energy storage for wind power smoothing: Aggregated, distributed and semi-distributed storage. <i>Renewable Energy</i> , 2014 , 64, 105-112 | 8.1 | 58 |
| 108 | On maximizing profit of wind-battery supported power station based on wind power and energy price forecasting. <i>Applied Energy</i> , 2018 , 211, 764-773 | 10.7 | 49 |
| 107 | A Coordinated Frequency Regulation Framework Based on Hybrid Battery-Ultracapacitor Energy Storage Technologies. <i>IEEE Access</i> , 2018 , 6, 7310-7320 | 3.5 | 45 |
| 106 | Minimizing the energy cost for microgrids integrated with renewable energy resources and conventional generation using controlled battery energy storage. <i>Renewable Energy</i> , 2016 , 97, 646-655 | 8.1 | 45 |
| 105 | An optimal operation of wind energy storage system for frequency control based on model predictive control. <i>Renewable Energy</i> , 2012 , 48, 127-132 | 8.1 | 45 |
| 104 | An intelligent framework for short-term multi-step wind speed forecasting based on Functional Networks. <i>Applied Energy</i> , 2018 , 225, 902-911 | 10.7 | 45 |
| 103 | . <i>IEEE Access</i> , 2018 , 6, 5986-6000 | 3.5 | 43 |
| 102 | A Constrained Monotonic Charging/Discharging Strategy for Optimal Capacity of Battery Energy Storage Supporting Wind Farms. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1224-1231 | 8.2 | 39 |
| 101 | A Comprehensive Review of Recent Advances in Smart Grids: A Sustainable Future with Renewable Energy Resources. <i>Energies</i> , 2020 , 13, 6269 | 3.1 | 36 |
| 100 | Multi-step Ahead Wind Forecasting Using Nonlinear Autoregressive Neural Networks. <i>Energy Procedia</i> , 2017 , 134, 192-204 | 2.3 | 34 |
| 99 | A Review on the Selected Applications of Battery-Supercapacitor Hybrid Energy Storage Systems for Microgrids. <i>Energies</i> , 2019 , 12, 4559 | 3.1 | 33 |

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|----|---|------|----|
| 98 | An Energy Management System for Residential Autonomous DC Microgrid Using Optimized Fuzzy Logic Controller Considering Economic Dispatch. <i>Energies</i> , 2019 , 12, 1457 | 3.1 | 31 |
| 97 | Co-optimized trading of wind-thermal-pumped storage system in energy and regulation markets. <i>Energy</i> , 2017 , 138, 991-1005 | 7.9 | 31 |
| 96 | Optimal Planning of Multiple Distributed Generating Units and Storage in Active Distribution Networks. <i>IEEE Access</i> , 2018 , 6, 55234-55244 | 3.5 | 29 |
| 95 | Method for planning a windSolarBattery hybrid power plant with optimal generation-demand matching. <i>IET Renewable Power Generation</i> , 2018 , 12, 1800-1806 | 2.9 | 29 |
| 94 | Electric Vehicles Beyond Energy Storage and Modern Power Networks: Challenges and Applications. <i>IEEE Access</i> , 2019 , 7, 99031-99064 | 3.5 | 28 |
| 93 | An Efficient ANFIS-Based PI Controller for Maximum Power Point Tracking of PV Systems. <i>Arabian Journal for Science and Engineering</i> , 2015 , 40, 2641-2651 | | 26 |
| 92 | SavitzkyGolay Filtering for Solar Power Smoothing and Ramp Rate Reduction Based on Controlled Battery Energy Storage. <i>IEEE Access</i> , 2020 , 8, 33806-33817 | 3.5 | 21 |
| 91 | Seven-parameter PV model estimation using Differential Evolution. <i>Electrical Engineering</i> , 2018 , 100, 971-981 | 1.5 | 21 |
| 90 | Optimal Sizing of Battery Energy Storage for Grid-Connected and Isolated Wind-Penetrated Microgrid. <i>IEEE Access</i> , 2020 , 8, 91129-91138 | 3.5 | 19 |
| 89 | Investigation into effects of non-uniform irradiance and photovoltaic temperature on performances of photovoltaic/thermal systems coupled with truncated compound parabolic concentrators. <i>Applied Energy</i> , 2019 , 250, 245-256 | 10.7 | 18 |
| 88 | Minimization of Power Losses through Optimal Battery Placement in a Distributed Network with High Penetration of Photovoltaics. <i>Energies</i> , 2020 , 13, 140 | 3.1 | 18 |
| 87 | Performance investigation on a novel spectral splitting concentrating photovoltaic/thermal system based on direct absorption collection. <i>Solar Energy</i> , 2018 , 163, 552-563 | 6.8 | 18 |
| 86 | Power Quality Improvement in Microgrids Under Critical Disturbances Using an Intelligent Decoupled Control Strategy Based on Battery Energy Storage System. <i>IEEE Access</i> , 2019 , 7, 147314-147326 | 3.5 | 17 |
| 85 | Improving the Transient Response of Hybrid Energy Storage System for Voltage Stability in DC Microgrids Using an Autonomous Control Strategy. <i>IEEE Access</i> , 2021 , 9, 10460-10472 | 3.5 | 16 |
| 84 | Heat losses and thermal stresses of an external cylindrical water/steam solar tower receiver. <i>Applied Thermal Engineering</i> , 2019 , 163, 114241 | 5.8 | 15 |
| 83 | Optimal Sizing of Battery Energy Storage for a Grid-Connected Microgrid Subjected to Wind Uncertainties. <i>Energies</i> , 2019 , 12, 2412 | 3.1 | 15 |
| 82 | Enhancing the reliability of a microgrid through optimal size of battery ESS. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 1499-1508 | 2.5 | 15 |
| 81 | Model predictive control for wind power generation smoothing with controlled battery storage 2009 , | | 15 |

| | | | |
|----|---|-----|----|
| 80 | Model predictive control based efficient operation of battery energy storage system for primary frequency control 2010 , | | 13 |
| 79 | Wind Power Economic Dispatch Impact of Radial Basis Functional Networks and Battery Energy Storage. <i>IEEE Access</i> , 2019 , 7, 36819-36832 | 3.5 | 12 |
| 78 | Design and performance study on a large-scale hybrid CPV/T system based on unsteady-state thermal model. <i>Solar Energy</i> , 2019 , 177, 427-439 | 6.8 | 12 |
| 77 | An Intelligent Battery Energy Storage-Based Controller for Power Quality Improvement in Microgrids. <i>Energies</i> , 2019 , 12, 2112 | 3.1 | 11 |
| 76 | . <i>IEEE Access</i> , 2019 , 7, 77951-77963 | 3.5 | 10 |
| 75 | A market-oriented wind power dispatch strategy using adaptive price thresholds and battery energy storage. <i>Wind Energy</i> , 2018 , 21, 242-254 | 3.4 | 10 |
| 74 | Closure to discussion on "A method for short-term wind power prediction with multiple observation points". <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 1898-1899 | 7 | 10 |
| 73 | Thermal losses evaluation of an external rectangular receiver in a windy environment. <i>Solar Energy</i> , 2019 , 184, 281-291 | 6.8 | 9 |
| 72 | Optimization and control of a distributed Battery Energy Storage System for wind power smoothing 2011 , | | 9 |
| 71 | Wind power dispatch control with battery energy storage using model predictive control 2012 , | | 8 |
| 70 | Multi-Input Nonlinear Programming Based Deterministic Optimization Framework for Evaluating Microgrids with Optimal Renewable-Storage Energy Mix. <i>Sustainability</i> , 2021 , 13, 5878 | 3.6 | 8 |
| 69 | Impact of wind speed modelling on the predictive reliability assessment of wind-based microgrids. <i>IET Renewable Power Generation</i> , 2019 , 13, 2947-2956 | 2.9 | 7 |
| 68 | A MILP-Based Restoration Technique for Multi-Microgrid Distribution Systems. <i>IEEE Access</i> , 2019 , 7, 136801-136811 | 3.5 | 7 |
| 67 | Diet of the Worm Lizard, <i>Diplometopon zarudnyi</i> (Nikolsky, 1907), in Riyadh province, Saudi Arabia (Reptilia: Trogonophidae). <i>Zoology in the Middle East</i> , 2016 , 62, 227-230 | 0.7 | 6 |
| 66 | Optimal size of battery energy storage and monotonic charging/discharging strategies for wind farms 2014 , | | 6 |
| 65 | Techno-Economic Assessment and Operational Planning of Wind-Battery Distributed Renewable Generation System. <i>Sustainability</i> , 2021 , 13, 6776 | 3.6 | 6 |
| 64 | Stochastic-programming-based bidding strategy for V2G services 2013 , | | 5 |
| 63 | Moving Regression Filtering With Battery State of Charge Feedback Control for Solar PV Firming and Ramp Rate Curtailment. <i>IEEE Access</i> , 2021 , 9, 13198-13211 | 3.5 | 5 |

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|----|---|------|---|
| 62 | Optimal Sizing, Allocation, Dispatch and Power Flow of Energy Storage Systems Integrated with Distributed Generation Units and a Wind Farm 2018 , | | 5 |
| 61 | Optimal Sizing and Cost Minimization of Solar Photovoltaic Power System Considering Economical Perspectives and Net Metering Schemes. <i>Electronics (Switzerland)</i> , 2021 , 10, 2713 | 2.6 | 4 |
| 60 | Machine learning in state of health and remaining useful life estimation: Theoretical and technological development in battery degradation modelling. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 156, 111903 | 16.2 | 4 |
| 59 | Model Predictive Control Approach for Optimal Power Dispatch and Duck Curve Handling Under High Photovoltaic Power Penetration. <i>IEEE Access</i> , 2020 , 8, 186840-186850 | 3.5 | 4 |
| 58 | Energy Management Strategy Considering Battery Efficiency for Grid-Tied Microgrids During Summer in the Kingdom of Saudi Arabia 2019 , | | 4 |
| 57 | Sizing and Allocation for Solar Energy Storage System Considering the Cost Optimization 2019 , | | 4 |
| 56 | Wind Energy Conversion Systems and Artificial Neural Networks: Role and Applications 2019 , | | 4 |
| 55 | Hybrid Energy Storage System for Voltage Stability in a DC Microgrid Using a Modified Control Strategy 2019 , | | 4 |
| 54 | Microgrid Reliability Evaluation Using Distributed Energy Storage Systems 2019 , | | 4 |
| 53 | A comprehensive study on the effects of truncation positions of the compound parabolic concentrator eliminating multiple reflections on the performances of concentrating photovoltaic and thermal system. <i>Applied Thermal Engineering</i> , 2021 , 183, 116162 | 5.8 | 4 |
| 52 | A method for short-term wind speed time series forecasting using Support Vector Machine Regression Model 2017 , | | 3 |
| 51 | Coordinating emission-aware energy trading with V2G services 2013 , | | 3 |
| 50 | Two-Stage Stochastic Optimization of Sodium-Sulfur Energy Storage Technology in Hybrid Renewable Power Systems. <i>IEEE Access</i> , 2021 , 9, 162962-162972 | 3.5 | 3 |
| 49 | A Reactive Power Compensation Strategy in Radial Distribution Network with High PV Penetration 2019 , | | 3 |
| 48 | Optimal Coordinated Planning of Energy Storage and Tie-Lines to Boost Flexibility with High Wind Power Integration. <i>Sustainability</i> , 2021 , 13, 2526 | 3.6 | 3 |
| 47 | Sizing of energy storage systems to enhance microgrid reliability 2018 , | | 3 |
| 46 | A Novel Design of Static Electrostatic Generator for High Voltage Low Power Applications Based on Electric Field Manipulation by Area Geometric Difference. <i>Energies</i> , 2019 , 12, 802 | 3.1 | 2 |
| 45 | Optimization of a power system consisting of wind and solar power plants and battery energy storage for optimal matching of supply and demand 2015 , | | 2 |

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|----|---|-----|---|
| 44 | Model Predictive Control of Wind Energy Storage System for Frequency Regulation. <i>Smart Innovation, Systems and Technologies</i> , 2011 , 101-110 | 0.5 | 2 |
| 43 | Nonlinear Power System Stabilizer Design for Small Signal Stability Enhancement. <i>Arabian Journal for Science and Engineering</i> ,1 | 2.5 | 2 |
| 42 | Discussion on Novel Supervisory Control Method for Islanded Droop-Based AC/DC Microgrids <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 4138-4138 | 7 | 2 |
| 41 | Development of Short-Term Prediction System for Wind Power Generation Based on Multiple Observation Points 2009 , 89-98 | | 2 |
| 40 | Fuzzy logic controller for solar power smoothing based on controlled battery energy storage and varying low pass filter. <i>IET Renewable Power Generation</i> , 2020 , 14, 3824-3833 | 2.9 | 2 |
| 39 | Impact of Smart Restoration and Energy Storage Systems on the Reliability of Electric Microgrid. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 1911-1925 | 2.5 | 2 |
| 38 | Integrated Power Management and Nonlinear-Control for Hybrid Renewable Microgrid 2021 , | | 2 |
| 37 | Voltage and Frequency Control of Microgrids With Distributed Generations and Battery Energy Storage 2019 , | | 2 |
| 36 | 2019 , | | 2 |
| 35 | Multi-Objective Optimal DG Sizing and Placement in Distribution Systems Using Particle Swarm Optimization 2019 , | | 2 |
| 34 | Residential Demand Side Management in Smart Grid Paradigm 2018 , | | 2 |
| 33 | . <i>IEEE Access</i> , 2021 , 9, 42771-42785 | 3.5 | 2 |
| 32 | Global Sliding-Mode Control with Fractional-Order Terms for the Robust Optimal Operation of a Hybrid Renewable Microgrid with Battery Energy Storage. <i>Electronics (Switzerland)</i> , 2022 , 11, 88 | 2.6 | 2 |
| 31 | A Flexible Operation and Sizing of Battery Energy Storage System Based on Butterfly Optimization Algorithm. <i>Electronics (Switzerland)</i> , 2022 , 11, 109 | 2.6 | 2 |
| 30 | Energy Management for Standalone DC Microgrid Using Artificial Bee Colony 2019 , | | 1 |
| 29 | Minimizing Active Power Losses in Electricity Networks Based on Optimal Location of Battery Energy Storage System 2019 , | | 1 |
| 28 | A Nonlinear Autoregressive Neural Network Model for Short-Term Wind Forecasting 2017 , | | 1 |
| 27 | 2017 , | | 1 |

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| 26 | A method for minimizing energy cost in a microgrid with hybrid renewable power generation using controlled battery energy storage 2016, | | 1 |
| 25 | Reliability Assessment of Microgrids with Multiple Distributed Generations and Hybrid Energy Storage 2018, | | 1 |
| 24 | An adaptive control algorithm for wind power dispatch using a battery energy storage system 2015 , | | 1 |
| 23 | Transmission lines induced currents in human bodies using charge simulation method 2012, | | 1 |
| 22 | Model predictive control of distributed and aggregated Battery Energy Storage System for capacity optimization 2011, | | 1 |
| 21 | 2009, | | 1 |
| 20 | Stochastic Approach for Optimal Sizing and Allocation of Energy Storage Systems 2021, | | 1 |
| 19 | A Strategy for Utilization of Reactive Power Capability of PV Inverters 2019, | | 1 |
| 18 | 2019, | | 1 |
| 17 | Primary Frequency Regulation by Demand Side Response. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 9627-9637 | 2.5 | 1 |
| 16 | An Efficient Scenario Generation Technique for Short-Term Wind Power Production 2018, | | 1 |
| 15 | Optimal Dispatch of Distributed Generation Units, Wind Farms and Energy Storage Systems 2018, | | 1 |
| 14 | A strategy for residential demand response management in modern electricity markets 2018, | | 1 |
| 13 | Robust Control for Optimized Islanded and Grid-Connected Operation of Solar/Wind/Battery Hybrid Energy. <i>Sustainability</i> , 2022 , 14, 5673 | 3.6 | 1 |
| 12 | Double Moving Average Methodology for Smoothing of Solar Power Fluctuations with Battery Energy Storage | | 0 |
| 11 | Discussion on Decentralized Optimal Frequency Control in Autonomous Microgrids <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 4972-4972 | 7 | 0 |
| 10 | Neural network predictive control for smoothing of solar power fluctuations with battery energy storage. <i>Journal of Energy Storage</i> , 2021 , 42, 103014 | 7.8 | 0 |
| 9 | A Review of Improvements in Power System Flexibility: Implementation, Operation and Economics. <i>Electronics (Switzerland)</i> , 2022 , 11, 581 | 2.6 | 0 |

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| 8 | AC/DC fault handling and expanded DC power flow expression in hybrid multi-converter DC grids. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 141, 107989 | 5.1 | o |
| 7 | Enhancing Transient Response and Voltage Stability of Renewable Integrated Microgrids. <i>Sustainability</i> , 2022 , 14, 3710 | 3.6 | o |
| 6 | Discussion on Short-Term Reactive Power Planning to Minimize Cost of Energy Losses Considering PV Systems <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 1812-1812 | 10.7 | |
| 5 | Metabolism of the spade-headed Amphisbaenian worm lizard, (Nikolsky, 1907), in Saudi Arabia (Reptilia: Trogonophidae). <i>Saudi Journal of Biological Sciences</i> , 2018 , 25, 178-181 | 4 | |
| 4 | Direction Dependent Power Curves for Wind Power Prediction: A Case Study. <i>Smart Innovation, Systems and Technologies</i> , 2011 , 121-127 | 0.5 | |
| 3 | Soft Load Shedding Based Demand Control of Residential Consumers. <i>Electronics (Switzerland)</i> , 2022 , 11, 615 | 2.6 | |
| 2 | Experiment and Numerical Analysis of Thermal Performance of a Billboard External Receiver. <i>Energies</i> , 2022 , 15, 2188 | 3.1 | |
| 1 | Discussion on Mitigation of Fault Induced Delayed Voltage Recovery (FIDVR) by PV-STATCOM <i>IEEE Transactions on Power Systems</i> , 2022 , 37, 1665-1665 | 7 | |