

Masood Parvania

List of Publications by Year in descending order

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117
papers

3,159
citations

201385

27
h-index

182168

51
g-index

117
all docs

117
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2497
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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Demand Response Scheduling by Stochastic SCUC. IEEE Transactions on Smart Grid, 2010, 1, 89-98. | 6.2 | 373 |
| 2 | Optimal Demand Response Aggregation in Wholesale Electricity Markets. IEEE Transactions on Smart Grid, 2013, 4, 1957-1965. | 6.2 | 330 |
| 3 | Optimized Sectionalizing Switch Placement Strategy in Distribution Systems. IEEE Transactions on Power Delivery, 2012, 27, 362-370. | 2.9 | 164 |
| 4 | A Systematic Review of Quantitative Resilience Measures for Water Infrastructure Systems. Water (Switzerland), 2018, 10, 164. | 1.2 | 126 |
| 5 | Optimal Coordination of Water Distribution Energy Flexibility With Power Systems Operation. IEEE Transactions on Smart Grid, 2019, 10, 1101-1110. | 6.2 | 104 |
| 6 | Integrating Load Reduction Into Wholesale Energy Market With Application to Wind Power Integration. IEEE Systems Journal, 2012, 6, 35-45. | 2.9 | 99 |
| 7 | ISO's Optimal Strategies for Scheduling the Hourly Demand Response in Day-Ahead Markets. IEEE Transactions on Power Systems, 2014, 29, 2636-2645. | 4.6 | 98 |
| 8 | Comparative Hourly Scheduling of Centralized and Distributed Storage in Day-Ahead Markets. IEEE Transactions on Sustainable Energy, 2014, 5, 729-737. | 5.9 | 82 |
| 9 | Optimal Demand Response Scheduling for Water Distribution Systems. IEEE Transactions on Industrial Informatics, 2018, 14, 5112-5122. | 7.2 | 67 |
| 10 | Deliverable Energy Flexibility Scheduling for Active Distribution Networks. IEEE Transactions on Smart Grid, 2020, 11, 655-664. | 6.2 | 65 |
| 11 | Unit Commitment With Continuous-Time Generation and Ramping Trajectory Models. IEEE Transactions on Power Systems, 2016, 31, 3169-3178. | 4.6 | 57 |
| 12 | Intelligent Damage Classification and Estimation in Power Distribution Poles Using Unmanned Aerial Vehicles and Convolutional Neural Networks. IEEE Transactions on Smart Grid, 2020, 11, 3325-3333. | 6.2 | 53 |
| 13 | A Two-Stage Framework for Power Transformer Asset Maintenance Management—Part I: Models and Formulations. IEEE Transactions on Power Systems, 2013, 28, 1395-1403. | 4.6 | 51 |
| 14 | The plug-in electric vehicles for power system applications: The vehicle to grid (V2G) concept. , 2012, , . | | 47 |
| 15 | Adversarial Semi-Supervised Learning for Diagnosing Faults and Attacks in Power Grids. IEEE Transactions on Smart Grid, 2021, 12, 3468-3478. | 6.2 | 47 |
| 16 | Optimized Midterm Preventive Maintenance Outage Scheduling of Thermal Generating Units. IEEE Transactions on Power Systems, 2012, 27, 1354-1365. | 4.6 | 41 |
| 17 | A survey on mobile energy storage systems (MESS): Applications, challenges and solutions. Renewable and Sustainable Energy Reviews, 2014, 40, 161-170. | 8.2 | 40 |
| 18 | Stochastic flexible transmission operation for coordinated integration of plug-in electric vehicles and renewable energy sources. Applied Energy, 2019, 238, 225-238. | 5.1 | 40 |

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| 19 | Look-Ahead Optimal Participation of Compressed Air Energy Storage in Day-Ahead and Real-Time Markets. IEEE Transactions on Sustainable Energy, 2020, 11, 682-692. | 5.9 | 37 |
| 20 | Continuous-Time Marginal Pricing of Electricity. IEEE Transactions on Power Systems, 2017, 32, 1960-1969. | 4.6 | 35 |
| 21 | Optimal Coordinated Operation of Interdependent Power and Water Distribution Systems. IEEE Transactions on Smart Grid, 2020, 11, 4784-4794. | 6.2 | 35 |
| 22 | Stochastic Transmission Impedance Control for Enhanced Wind Energy Integration. IEEE Transactions on Sustainable Energy, 2018, 9, 1108-1117. | 5.9 | 34 |
| 23 | Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets. IEEE Systems Journal, 2020, 14, 3729-3739. | 2.9 | 34 |
| 24 | Spatio-Temporal Electric Bus Charging Optimization With Transit Network Constraints. IEEE Transactions on Industry Applications, 2020, 56, 5741-5749. | 3.3 | 34 |
| 25 | Hybrid Control Network Intrusion Detection Systems for Automated Power Distribution Systems. , 2014, , . | | 33 |
| 26 | Flexibility Scheduling for Large Customers. IEEE Transactions on Smart Grid, 2019, 10, 371-379. | 6.2 | 31 |
| 27 | Advanced charging infrastructure for enabling electrified transportation. Electricity Journal, 2019, 32, 21-26. | 1.3 | 29 |
| 28 | Flexibility Reserve in Power Systems: Definition and Stochastic Multi-Fidelity Optimization. IEEE Transactions on Smart Grid, 2020, 11, 644-654. | 6.2 | 29 |
| 29 | Wildfire Risk Mitigation: A Paradigm Shift in Power Systems Planning and Operation. IEEE Open Access Journal of Power and Energy, 2020, 7, 366-375. | 2.5 | 29 |
| 30 | Stochastic Charging Optimization of V2G-Capable PEVs: A Comprehensive Model for Battery Aging and Customer Service Quality. IEEE Transactions on Transportation Electrification, 2020, 6, 1026-1034. | 5.3 | 29 |
| 31 | Scheduling and Pricing of Load Flexibility in Power Systems. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 645-656. | 7.3 | 28 |
| 32 | Quantifying impacts of automation on resilience of distribution systems. IET Smart Grid, 2020, 3, 144-152. | 1.5 | 27 |
| 33 | Scheduling and Pricing of Energy Generation and Storage in Power Systems. IEEE Transactions on Power Systems, 2018, 33, 4308-4322. | 4.6 | 26 |
| 34 | Assessing impacts of energy storage on resilience of distribution systems against hurricanes. Journal of Modern Power Systems and Clean Energy, 2019, 7, 731-740. | 3.3 | 26 |
| 35 | Probabilistic Optimal Dynamic Planning of Onsite Solar Generation for Residential Energy Hubs. IEEE Systems Journal, 2020, 14, 832-841. | 2.9 | 26 |
| 36 | Resilient Operation of Distribution Grids Using Deep Reinforcement Learning. IEEE Transactions on Industrial Informatics, 2022, 18, 2100-2109. | 7.2 | 26 |

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| 37 | Integrated Cyber and Physical Anomaly Location and Classification in Power Distribution Systems. IEEE Transactions on Industrial Informatics, 2021, 17, 7040-7049. | 7.2 | 26 |
| 38 | Continuous-time Model Predictive Control for Real-time Flexibility Scheduling of Plugin Electric Vehicles. IFAC-PapersOnLine, 2018, 51, 498-503. | 0.5 | 25 |
| 39 | Preparatory Operation of Automated Distribution Systems for Resilience Enhancement of Critical Loads. IEEE Transactions on Power Delivery, 2021, 36, 2354-2362. | 2.9 | 25 |
| 40 | Data-Driven Risk Analysis of Joint Electric Vehicle and Solar Operation in Distribution Networks. IEEE Open Access Journal of Power and Energy, 2020, 7, 141-150. | 2.5 | 24 |
| 41 | Artificial intelligence for resilience enhancement of power distribution systems. Electricity Journal, 2021, 34, 106880. | 1.3 | 24 |
| 42 | A hybrid network IDS for protective digital relays in the power transmission grid. , 2014, , . | | 22 |
| 43 | Generation Ramping Valuation in Day-Ahead Electricity Markets. , 2016, , . | | 22 |
| 44 | Integrating water distribution energy flexibility in power systems operation. , 2017, , . | | 22 |
| 45 | Contribution of FACTS devices in power systems security using MILP-based OPF. IET Generation, Transmission and Distribution, 2018, 12, 3744-3755. | 1.4 | 22 |
| 46 | A Two-Stage Framework for Power Transformer Asset Maintenance Management—Part II: Validation Results. IEEE Transactions on Power Systems, 2013, 28, 1404-1414. | 4.6 | 21 |
| 47 | Stochastic risk-based flexibility scheduling for large customers with onsite solar generation. IET Renewable Power Generation, 2019, 13, 2705-2714. | 1.7 | 19 |
| 48 | Comprehensive control framework for ensuring loading margin of power systems considering demand-side participation. IET Generation, Transmission and Distribution, 2012, 6, 1189-1201. | 1.4 | 18 |
| 49 | Demand response participation in wholesale energy markets. , 2012, , . | | 18 |
| 50 | Stochastic Spatio-Temporal Hurricane Impact Analysis for Power Grid Resilience Studies. , 2019, , . | | 18 |
| 51 | Coordinated deliverable energy flexibility and regulation capacity of distribution networks. International Journal of Electrical Power and Energy Systems, 2020, 123, 106219. | 3.3 | 18 |
| 52 | The Cyberphysical Power System Resilience Testbed: Architecture and Applications. Computer, 2020, 53, 44-54. | 1.2 | 17 |
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| 54 | Assessing impact of demand response in emission-constrained environments. , 2011, , . | | 16 |

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| 55 | Reliability Modeling Considerations for Emerging Cyber-Physical Power Systems. , 2018, , . | | 14 |
| 56 | Stochastic Multi-Fidelity Scheduling of Flexibility Reserve for Energy Storage. IEEE Transactions on Sustainable Energy, 2020, 11, 1438-1450. | 5.9 | 14 |
| 57 | Clustered multi-node learning of electric vehicle charging flexibility. Applied Energy, 2021, 282, 116125. | 5.1 | 14 |
| 58 | Stochastic Scheduling of Onsite Solar Power Generation for Large Customers. , 2018, , . | | 13 |
| 59 | Continuous-time optimal charging control of plug-in Electric Vehicles. , 2018, , . | | 13 |
| 60 | Continuous-time look-ahead flexible ramp scheduling in real-time operation. International Journal of Electrical Power and Energy Systems, 2020, 119, 105895. | 3.3 | 13 |
| 61 | Optimal production scheduling for smart manufacturers with application to food production planning. Computers and Electrical Engineering, 2020, 84, 106609. | 3.0 | 13 |
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| 71 | Supercapacitor for High-Dynamic Load Management in MVDC Shipboard Power Systems. , 2019, , . | | 9 |
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| 74 | Characterizing Probability of Wildfire Ignition Caused by Power Distribution Lines. IEEE Transactions on Power Delivery, 2021, 36, 3681-3688. | 2.9 | 9 |
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| 93 | ISO's optimal strategies for scheduling the hourly demand response in day-ahead markets. , 2015, , . | | 3 |
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| 96 | Multi-Task Gaussian Process Learning for Energy Forecasting in IoT-Enabled Electric Vehicle Charging Infrastructure. , 2020, , . | | 3 |
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| 102 | Incorporating Two-Part Real-Time Pricing Scheme into Distribution System Operation. , 2014, , . | | 1 |
| 103 | Incorporating time-varying electricity rates into day-ahead distribution system operation. , 2014, , . | | 1 |
| 104 | Unit commitment with continuous-time generation and ramping trajectory models. , 2016, , . | | 1 |
| 105 | Optimal Coordination of Energy Storage and Generation Flexibility in Transmission Networks. , 2019, , . | | 1 |
| 106 | Worst-Case Probabilistic Network Outage Identification Under Physical Disturbances. , 2020, 4, 115-120. | | 1 |
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| 110 | Continuous-time marginal pricing of electricity. , 2017, , . | | 0 |
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| 112 | Toward a 21st Century Power Education: A Bright Future Awaits Students in Utah. IEEE Power and Energy Magazine, 2018, 16, 87-95. | 1.6 | 0 |
| 113 | Guest Editorial: Demand Side Management and Market Design for Renewable Energy Support and Integration. IET Renewable Power Generation, 2019, 13, 801-801. | 1.7 | 0 |
| 114 | Scheduling and Pricing of Energy Generation and Storage in Power Systems. , 2019, , . | | 0 |
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