Zhigang Li

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Combined Heat and Power Dispatch Considering Pipeline Energy Storage of District Heating Network. IEEE Transactions on Sustainable Energy, 2016, 7, 12-22. | 8.8 | 534 |
| 2 | Transmission-Constrained Unit Commitment Considering Combined Electricity and District Heating Networks. IEEE Transactions on Sustainable Energy, 2016, 7, 480-492. | 8.8 | 319 |
| 3 | Dynamic Price Vector Formation Model-Based Automatic Demand Response Strategy for PV-Assisted EV Charging Stations. IEEE Transactions on Smart Grid, 2017, 8, 2903-2915. | 9.0 | 208 |
| 4 | Adjustable Robust Real-Time Power Dispatch With Large-Scale Wind Power Integration. IEEE Transactions on Sustainable Energy, 2015, 6, 357-368. | 8.8 | 179 |
| 5 | Decentralized Multiarea Robust Generation Unit and Tie-Line Scheduling Under Wind Power Uncertainty. IEEE Transactions on Sustainable Energy, 2015, 6, 1377-1388. | 8.8 | 123 |
| 6 | Pattern Classification and PSO Optimal Weights Based Sky Images Cloud Motion Speed Calculation Method for Solar PV Power Forecasting. IEEE Transactions on Industry Applications, 2019, 55, 3331-3342. | 4.9 | 107 |
| 7 | Decentralized Multi-Area Dynamic Economic Dispatch Using Modified Generalized Benders Decomposition. IEEE Transactions on Power Systems, 2016, 31, 526-538. | 6.5 | 105 |
| 8 | Decentralized Reactive Power Optimization Method for Transmission and Distribution Networks Accommodating Large-Scale DG Integration. IEEE Transactions on Sustainable Energy, 2017, 8, 363-373. | 8.8 | 103 |
| 9 | Reducing Generation Uncertainty by Integrating CSP With Wind Power: An Adaptive Robust Optimization-Based Analysis. IEEE Transactions on Sustainable Energy, 2015, 6, 583-594. | 8.8 | 92 |
| 10 | Dynamic Economic Dispatch Using Lagrangian Relaxation With Multiplier Updates Based on a Quasi-Newton Method. IEEE Transactions on Power Systems, 2013, 28, 4516-4527. | 6.5 | 86 |
| 11 | Fully distributed multiâ€area economic dispatch method for active distribution networks. IET Generation, Transmission and Distribution, 2015, 9, 1341-1351. | 2.5 | 81 |
| 12 | Approximate Linear Power Flow Using Logarithmic Transform of Voltage Magnitudes With Reactive Power and Transmission Loss Consideration. IEEE Transactions on Power Systems, 2018, 33, 4593-4603. | 6.5 | 81 |
| 13 | Adaptive Robust Tie-Line Scheduling Considering Wind Power Uncertainty for Interconnected Power Systems. IEEE Transactions on Power Systems, 2016, 31, 2701-2713. | 6.5 | 80 |
| 14 | Coordinated dispatch of electric power and district heating networks: A decentralized solution using optimality condition decomposition. Applied Energy, 2017, 206, 1508-1522. | 10.1 | 78 |
| 15 | Robust Scheduling of Integrated Electricity and Heating System Hedging Heating Network Uncertainties. IEEE Transactions on Smart Grid, 2020, 11, 1543-1555. | 9.0 | 54 |
| 16 | Decentralized Contingency-Constrained Tie-Line Scheduling for Multi-Area Power Grids. IEEE Transactions on Power Systems, 2017, 32, 354-367. | 6.5 | 47 |
| 17 | A Dynamic Equivalent Model for District Heating Networks: Formulation, Existence and Application in Distributed Electricity-Heat Operation. IEEE Transactions on Smart Grid, 2021, 12, 2685-2695. | 9.0 | 46 |
| 18 | Decentralized state estimation of combined heat and power systems using the asynchronous alternating direction method of multipliers. Applied Energy, 2019, 248, 600-613. | 10.1 | 45 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Robust Look-Ahead Power Dispatch With Adjustable Conservativeness Accommodating Significant Wind Power Integration. IEEE Transactions on Sustainable Energy, 2015, 6, 781-790. | 8.8 | 32 |
| 20 | Data-driven real-time power dispatch for maximizing variable renewable generation. Applied Energy, 2016, 170, 304-313. | 10.1 | 30 |
| 21 | Multi-stage contingency-constrained co-planning for electricity-gas systems interconnected with gas-fired units and power-to-gas plants using iterative Benders decomposition. Energy, 2019, 180, 689-701. | 8.8 | 30 |
| 22 | Many-objective optimization for coordinated operation of integrated electricity and gas network. Journal of Modern Power Systems and Clean Energy, 2017, 5, 350-363. | 5.4 | 28 |
| 23 | Equivalent modeling of active distribution network considering the spatial uncertainty of renewable energy resources. International Journal of Electrical Power and Energy Systems, 2019, 112, 83-91. | 5.5 | 21 |
| 24 | A Non-Iterative Decoupled Solution for Robust Integrated Electricity-Heat Scheduling Based on Network Reduction. IEEE Transactions on Sustainable Energy, 2021, 12, 1473-1488. | 8.8 | 18 |
| 25 | Relaxed Alternating Direction Method of Multipliers for Hedging Communication Packet Loss in Integrated Electrical and Heating System. Journal of Modern Power Systems and Clean Energy, 2020, 8, 874-883. | 5.4 | 16 |
| 26 | Dynamic energy flow analysis of integrated gas and electricity systems using the holomorphic embedding method. Applied Energy, 2022, 309, 118345. | 10.1 | 14 |
| 27 | Decentralized State Estimation of Combined Heat and Power System Considering Communication Packet Loss. Journal of Modern Power Systems and Clean Energy, 2020, 8, 646-656. | 5.4 | 11 |
| 28 | Online Area Load Modeling in Power Systems Using Enhanced Reinforcement Learning. Energies, 2017, 10, 1852. | 3.1 | 10 |
| 29 | Fully decentralized multiarea reactive power optimization considering practical regulation constraints of devices. International Journal of Electrical Power and Energy Systems, 2019, 105, 351-364. | 5.5 | 10 |
| 30 | Multi-attribute decision analysis for optimal design of park-level integrated energy systems based on load characteristics. Energy, 2022, 254, 124379. | 8.8 | 10 |
| 31 | Order reduction method for high-order dynamic analysis of heterogeneous integrated energy systems. Applied Energy, 2022, 308, 118265. | 10.1 | 9 |
| 32 | Dynamic State Estimation of Combined Heat and Power System Considering Quasi-Dynamics of Temperature in Pipelines. , 2018, , . | | 6 |
| 33 | A variant of Newton–Raphson method with thirdâ€order convergence for energy flow calculation of the integrated electric power and natural gas system. IET Generation, Transmission and Distribution, 2022, 16, 2766-2776. | 2.5 | 6 |
| 34 | A Generation-Interval-Based Mechanism for Managing the Power Generation Uncertainties of Variable Generation. IEEE Transactions on Sustainable Energy, 2016, 7, 1060-1070. | 8.8 | 5 |
| 35 | Data-Driven Dispatchable Regions With Potentially Active Boundaries for Renewable Power Generation: Concept and Construction. IEEE Transactions on Sustainable Energy, 2022, 13, 882-891. | 8.8 | 4 |
| 36 | Dynamic economic dispatch with spinning reserve constraints considering wind power integration. , 2013, , . | | 3 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | An Equivalent Modeling Method for Multi-port Area Load Based on the Extended Generalized ZIP Load Model. , 2018, , . | | 3 |
| 38 | Efficient Robust Look-Ahead Dispatch Incorporating Critical Region Preparation in Gap Time. IEEE Transactions on Power Systems, 2021, 36, 4840-4843. | 6.5 | 3 |
| 39 | Power Flow Analysis of Integrated Gas and Electricity Systems Using the Fast and Flexible Holomorphic Embedding Method. , 2020, , . | | 3 |
| 40 | Exact relaxation of complementary constraints for optimal bidding strategy for electric vehicle aggregators. IET Renewable Power Generation, 2022, 16, 2493-2507. | 3.1 | 3 |
| 41 | Twoâ€level areaâ€load modelling for OPF of power system using reinforcement learning. IET Generation, Transmission and Distribution, 2019, 13, 4141-4149. | 2.5 | 2 |
| 42 | Probabilistic active distribution network equivalence with correlated uncertain injections for grid analysis. IET Renewable Power Generation, 2020, 14, 1964-1977. | 3.1 | 2 |
| 43 | Electrical Network Equivalent Modeling Method with Boundary Buses Interconnected. , 2019, , . | | 1 |
| 44 | On Convergence Performance and its Common Domain of the Fast and Flexible Holomorphic Embedding Method for Power Flow Analysis. , 2020, , . | | 1 |
| 45 | Distributed Multi-Area Economic Dispatch Considering Reactive Power Using Critical Region Projection. , 2020, , . | | 1 |
| 46 | Distributionally Robust Economic Dispatch Considering the Uncertainty and Correlation of Wind Farm Outputs. , 2020, , . | | 1 |
| 47 | Optimal Scheduling of Integrated Electricity and District Cooling Systems with Ice Storage. , 2021, , . | | 1 |
| 48 | Multi-objective Group Search Optimization of District Cooling System Considering both Economic and Efficiency Aspects. , 2021, , . | | 1 |
| 49 | Review on Modeling and Optimal Scheduling in Integrated Energy Systems. , 2021, , . | | 1 |
| 50 | Closure to Discussion on "Approximate Linear Power Flow Using Logarithmic Transform of Voltage Magnitudes With Reactive Power and Transmission Loss Consideration― IEEE Transactions on Power Systems, 2019, 34, 3985-3985. | 6.5 | 0 |
| 51 | Decentralized Distributionally Robust Dispatch of Multi-Regional Power Systems Considering the Correlated Variable Wind Power. , 2021, , . | | 0 |
| 52 | A Non-iterative Solution Method for DC Optimal Power Flow Based on Holomorphic Embedding. , 2021, | | 0 |