

# Zhengshuo Li

## List of Publications by Year in descending order

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75  
papers

2,734  
citations

218677

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g-index

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all docs

75  
docs citations

75  
times ranked

2022  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of Challenges and Research Opportunities for Voltage Control in Smart Grids. IEEE Transactions on Power Systems, 2019, 34, 2790-2801.	6.5	270
2	Master-Slave Splitting Based Distributed Global Power Flow Method for Integrated Transmission and Distribution Analysis. IEEE Transactions on Smart Grid, 2015, 6, 1484-1492.	9.0	191
3	Coordinated Economic Dispatch of Coupled Transmission and Distribution Systems Using Heterogeneous Decomposition. IEEE Transactions on Power Systems, 2016, 31, 4817-4830.	6.5	149
4	Coordinated Transmission and Distribution AC Optimal Power Flow. IEEE Transactions on Smart Grid, 2018, 9, 1228-1240.	9.0	147
5	Rapid-Charging Navigation of Electric Vehicles Based on Real-Time Power Systems and Traffic Data. IEEE Transactions on Smart Grid, 2014, 5, 1969-1979.	9.0	146
6	Optimal Distributed Control for Secondary Frequency and Voltage Regulation in an Islanded Microgrid. IEEE Transactions on Industrial Informatics, 2019, 15, 225-235.	11.3	144
7	A Distributionally Robust Optimization Model for Unit Commitment Based on Kullback-Leibler Divergence. IEEE Transactions on Power Systems, 2018, 33, 5147-5160.	6.5	122
8	Cooperative Economic Scheduling for Multiple Energy Hubs: A Bargaining Game Theoretic Perspective. IEEE Access, 2018, 6, 27777-27789.	4.2	99
9	Sufficient Conditions for Exact Relaxation of Complementarity Constraints for Storage-Concerned Economic Dispatch. IEEE Transactions on Power Systems, 2016, 31, 1653-1654.	6.5	86
10	A New LMP-Sensitivity-Based Heterogeneous Decomposition for Transmission and Distribution Coordinated Economic Dispatch. IEEE Transactions on Smart Grid, 2018, 9, 931-941.	9.0	76
11	Emission-Concerned Wind-EV Coordination on the Transmission Grid Side With Network Constraints: Concept and Case Study. IEEE Transactions on Smart Grid, 2013, 4, 1692-1704.	9.0	75
12	Transmission Contingency Analysis Based on Integrated Transmission and Distribution Power Flow in Smart Grid. IEEE Transactions on Power Systems, 2015, 30, 3356-3367.	6.5	70
13	A Distributed Transmission-Distribution-Coupled Static Voltage Stability Assessment Method Considering Distributed Generation. IEEE Transactions on Power Systems, 2018, 33, 2621-2632.	6.5	62
14	Distributed Distributionally Robust Dispatch for Integrated Transmission-Distribution Systems. IEEE Transactions on Power Systems, 2021, 36, 1193-1205.	6.5	54
15	A Novel Generation Rescheduling Algorithm to Improve Power System Reliability With High Renewable Energy Penetration. IEEE Transactions on Power Systems, 2018, 33, 3349-3357.	6.5	51
16	Storage-like devices in load leveling: Complementarity constraints and a new and exact relaxation method. Applied Energy, 2015, 151, 13-22.	10.1	49
17	A New Real-Time Smart-Charging Method Considering Expected Electric Vehicle Fleet Connections. IEEE Transactions on Power Systems, 2014, 29, 3114-3115.	6.5	48
18	Uncertainty Modeling of Distributed Energy Resources: Techniques and Challenges. Current Sustainable/Renewable Energy Reports, 2019, 6, 42-51.	2.6	47

#	ARTICLE	IF	CITATIONS
19	Generalized Master-Slave-Splitting Method and Application to Transmission-Distribution Coordinated Energy Management. IEEE Transactions on Power Systems, 2019, 34, 5169-5183.	6.5	46
20	Interval State Estimation With Uncertainty of Distributed Generation and Line Parameters in Unbalanced Distribution Systems. IEEE Transactions on Power Systems, 2020, 35, 762-772.	6.5	46
21	Fully Distributed Robust Reserve Scheduling for Coupled Transmission and Distribution Systems. IEEE Transactions on Power Systems, 2021, 36, 169-182.	6.5	46
22	Deep Reinforcement Learning Based Optimal Schedule for a Battery Swapping Station Considering Uncertainties. IEEE Transactions on Industry Applications, 2020, 56, 5775-5784.	4.9	44
23	Generalized Locational Marginal Pricing in a Heat-and-Electricity-Integrated Market. IEEE Transactions on Smart Grid, 2019, 10, 6414-6425.	9.0	40
24	Coordinated Dispatch of Integrated Electric and District Heating Systems Using Heterogeneous Decomposition. IEEE Transactions on Sustainable Energy, 2020, 11, 1495-1507.	8.8	39
25	Study on wind-EV complementation in transmission grid side. , 2011, , .		37
26	A water mass method and its application to integrated heat and electricity dispatch considering thermal inertias. Energy, 2019, 181, 840-852.	8.8	33
27	Impact of Coupled Transmission-Distribution on Static Voltage Stability Assessment. IEEE Transactions on Power Systems, 2017, 32, 3311-3312.	6.5	30
28	Factor Analysis of the Aggregated Electric Vehicle Load Based on Data Mining. Energies, 2012, 5, 2053-2070.	3.1	28
29	A robust aggregate model and the two-stage solution method to incorporate energy intensive enterprises in power system unit commitment. Applied Energy, 2017, 206, 1364-1378.	10.1	27
30	Distribution-Free Probability Density Forecast Through Deep Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 612-625.	11.3	26
31	Uncertainty Evaluation Algorithm in Power System Dynamic Analysis With Correlated Renewable Energy Sources. IEEE Transactions on Power Systems, 2021, 36, 5602-5611.	6.5	25
32	PMU Uncertainty Quantification in Voltage Stability Analysis. IEEE Transactions on Power Systems, 2015, 30, 2196-2197.	6.5	23
33	Robust Estimation of Reactive Power for an Active Distribution System. IEEE Transactions on Power Systems, 2019, 34, 3395-3407.	6.5	23
34	Coordination on Industrial Load Control and Climate Control in Manufacturing Industry Under TOU Prices. IEEE Transactions on Smart Grid, 2019, 10, 139-152.	9.0	23
35	Decentralized Chance-Constrained Economic Dispatch for Integrated Transmission-District Energy Systems. IEEE Transactions on Smart Grid, 2019, 10, 6724-6734.	9.0	22
36	State-of-the-art short-term electricity market operation with solar generation: A review. Renewable and Sustainable Energy Reviews, 2021, 138, 110647.	16.4	22

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37	Transmission Contingency Screening Considering Impacts of Distribution Grids. IEEE Transactions on Power Systems, 2016, 31, 1659-1660.	6.5	20
38	A Benders Decomposition Based Algorithm for Steady-State Dispatch Problem in an Integrated Electricity-Gas System. IEEE Transactions on Power Systems, 2021, 36, 3817-3820.	6.5	20
39	Evaluating and Increasing the Renewable Energy Share of Customers'™ Electricity Consumption. IEEE Access, 2019, 7, 129200-129214.	4.2	17
40	Research on architecture of ITS based Smart Charging Guide System. , 2011, , .		16
41	Extended sufficient conditions for exact relaxation of the complementarity constraints in storage-concerned economic dispatch. CSEE Journal of Power and Energy Systems, 2018, 4, 504-512.	1.1	16
42	Data Center Aggregators'™ Optimal Bidding and Benefit Allocation Strategy Considering the Spatiotemporal Transfer Characteristics. IEEE Transactions on Industry Applications, 2021, 57, 4486-4499.	4.9	16
43	Data-Driven-Aided Linear Three-Phase Power Flow Model for Distribution Power Systems. IEEE Transactions on Power Systems, 2022, 37, 2783-2795.	6.5	16
44	Study on leveraging wind farms' robust reactive power range for uncertain power system reactive power optimization. Applied Energy, 2021, 298, 117130.	10.1	14
45	A framework of utilizing distribution power systems as reactive power prosumers for transmission power systems. International Journal of Electrical Power and Energy Systems, 2020, 121, 106139.	5.5	12
46	Enhanced Sufficient Battery Model for Aggregate Flexibility of Thermostatically Controlled Loads Considering Coupling Constraints. IEEE Transactions on Sustainable Energy, 2021, 12, 2493-2496.	8.8	11
47	Comparison of Centralized and Peer-to-Peer Decentralized Market Designs for Community Markets. IEEE Transactions on Industry Applications, 2022, 58, 67-77.	4.9	11
48	Two-stage chance-constrained unit commitment based on optimal wind power consumption point considering battery energy storage. IET Generation, Transmission and Distribution, 2020, 14, 3738-3749.	2.5	10
49	Distributed Transmission-Distribution Coordinated Energy Management Based on Generalized Master-Slave Splitting Theory. Springer Theses, 2018, , .	0.1	10
50	A Newton-Raphson-Based Sequential Power Flow Algorithm for Hybrid AC/DC Microgrids. IEEE Transactions on Industry Applications, 2022, 58, 843-854.	4.9	10
51	A two-stage reactive power optimization in transmission network incorporating reserves from voltage-dependent loads. Energy, 2018, 157, 752-763.	8.8	8
52	A new LMP-sensitivity-based heterogeneous decomposition for transmission and distribution coordinated economic dispatch. , 2017, , .		7
53	A decentralized optimization method to track electric vehicle aggregator's optimal charging plan. , 2014, , .		6
54	Robust Data-Driven Linear Power Flow Model With Probability Constrained Worst-Case Errors. IEEE Transactions on Power Systems, 2022, 37, 4113-4116.	6.5	6

#	ARTICLE	IF	CITATIONS
55	ADMM-based decentralized demand response method in electric vehicle virtual power plant. , 2016, , .		5
56	Fast Var Margin Evaluation of High Wind Penetration Power Systems: An Objective-Oriented Dimensionality Reduction Approximation Approach. IEEE Transactions on Sustainable Energy, 2022, 13, 1722-1733.	8.8	5
57	Ultra-short-term load forecasting using robust exponentially weighted method in distribution networks. , 2015, , .		4
58	Coordinated transmission and distribution AC optimal power flow. , 2017, , .		4
59	Robust voltage control model for active distribution network considering PVs and loads uncertainties. , 2015, , .		3
60	Coordinated economic dispatch of coupled transmission and distribution systems using heterogeneous decomposition. , 2017, , .		3
61	Dynamic Stability Assessment for Integrated Transmission-Distribution System Considering Distributed Energy Resources. , 2019, , .		3
62	Effect of Power to Gas on Integrated Electricity-Gas System with Uncertain Wind Generation. , 2020, , .		3
63	Current energy management technologies research in China considering EVs integration. , 2012, , .		2
64	A hybrid simulation method for EVs' operation considering power grid and traffic information. , 2013, , .		2
65	Voltage security analysis with high PVs penetration considering the interaction of transmission and distribution grids: Case studies. , 2015, , .		2
66	Comparison of Community-Market Designs: Centralized and Peer-to-peer Trading. , 2020, , .		2
67	A Modified Newton-Raphson Method for Hybrid AC/DC Microgrids Power Flow Analysis. , 2020, , .		2
68	Power system multi-day stochastic scheduling considering the uncertainty of CSP/wind plants. , 2016, , .		1
69	Equivalencingâ€trackingâ€based method for incorporating distributed energy resources in transmission system economic dispatch. Journal of Engineering, 2017, 2017, 1029-1034.	1.1	1
70	GPF-based method for evaluating EVs' free charging impacts in distribution system. , 2012, , .		0
71	A V2G prototype system: Design, field test and discussion. , 2014, , .		0
72	Distributed Transmission-Distribution Coordinated Economic Dispatch. Springer Theses, 2018, , 107-135.	0.1	0

#	ARTICLE	IF	CITATIONS
73	Probabilistic Dynamic Analysis Method of Power System with Renewable Energy based on Probabilistic Collocation Method. , 2020, , .		0
74	Study on Exploiting Thermostatically Controlled Loads to Reduce Wind Power Curtailment. , 2020, , .		0
75	A Critical Region Search Based Distributed Coordination Algorithm for Integrated Electric and District Heating System Dispatch. , 2022, , .		0