

Changhong Zhao

List of Publications by Year in descending order

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52
papers

1,891
citations

394421

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h-index

477307

29
g-index

53
all docs

53
docs citations

53
times ranked

1485
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Stability of Load-Side Primary Frequency Control in Power Systems. IEEE Transactions on Automatic Control, 2014, 59, 1177-1189.	5.7	367
2	Connecting Automatic Generation Control and Economic Dispatch From an Optimization View. IEEE Transactions on Control of Network Systems, 2016, 3, 254-264.	3.7	202
3	Optimal Load-Side Control for Frequency Regulation in Smart Grids. IEEE Transactions on Automatic Control, 2017, 62, 6294-6309.	5.7	137
4	Optimal Load Control via Frequency Measurement and Neighborhood Area Communication. IEEE Transactions on Power Systems, 2013, 28, 3576-3587.	6.5	107
5	Load Flow in Multiphase Distribution Networks: Existence, Uniqueness, Non-Singularity and Linear Models. IEEE Transactions on Power Systems, 2018, 33, 5832-5843.	6.5	98
6	Network-Cognizant Voltage Droop Control for Distribution Grids. IEEE Transactions on Power Systems, 2018, 33, 2098-2108.	6.5	94
7	Optimal Waterâ€“Power Flow-Problem: Formulation and Distributed Optimal Solution. IEEE Transactions on Control of Network Systems, 2019, 6, 37-47.	3.7	72
8	Aggregate Power Flexibility in Unbalanced Distribution Systems. IEEE Transactions on Smart Grid, 2020, 11, 258-269.	9.0	71
9	Optimizing DER Participation in Inertial and Primary-Frequency Response. IEEE Transactions on Power Systems, 2018, 33, 5194-5205.	6.5	59
10	Robust Decentralized Secondary Frequency Control in Power Systems: Merits and Tradeoffs. IEEE Transactions on Automatic Control, 2019, 64, 3967-3982.	5.7	55
11	Distributed Frequency Control With Operational Constraints, Part I: Per-Node Power Balance. IEEE Transactions on Smart Grid, 2019, 10, 40-52.	9.0	50
12	A unified framework for frequency control and congestion management. , 2016, , .		41
13	Distributed Frequency Control With Operational Constraints, Part II: Network Power Balance. IEEE Transactions on Smart Grid, 2019, 10, 53-64.	9.0	40
14	Gradient-Based Multi-Area Distribution System State Estimation. IEEE Transactions on Smart Grid, 2020, 11, 5325-5338.	9.0	40
15	Design of an advanced energy management system for microgrid control using a state machine. Applied Energy, 2018, 228, 2407-2421.	10.1	37
16	Accelerated Voltage Regulation in Multi-Phase Distribution Networks Based on Hierarchical Distributed Algorithm. IEEE Transactions on Power Systems, 2020, 35, 2047-2058.	6.5	34
17	Optimal decentralized primary frequency control in power networks. , 2014, , .		33
18	Distributed plug-and-play optimal generator and load control for power system frequency regulation. International Journal of Electrical Power and Energy Systems, 2018, 101, 1-12.	5.5	31

#	ARTICLE	IF	CITATIONS
19	Graph Laplacian Spectrum and Primary Frequency Regulation. , 2018, , .		29
20	Privacy-Preserving Distributed Optimal Power Flow With Partially Homomorphic Encryption. IEEE Transactions on Smart Grid, 2021, 12, 4506-4521.	9.0	24
21	Approaching Prosumer Social Optimum via Energy Sharing With Proof of Convergence. IEEE Transactions on Smart Grid, 2021, 12, 2484-2495.	9.0	21
22	Optimizing Powerâ€™Frequency Droop Characteristics of Distributed Energy Resources. IEEE Transactions on Power Systems, 2018, 33, 3076-3086.	6.5	19
23	Optimizing Information Freshness via Multiuser Scheduling With Adaptive NOMA/OMA. IEEE Transactions on Wireless Communications, 2022, 21, 1766-1778.	9.2	17
24	Distributed Automatic Load Frequency Control With Optimality in Power Systems. IEEE Transactions on Control of Network Systems, 2021, 8, 307-318.	3.7	16
25	Distributed AC-DC Optimal Power Dispatch of VSC-Based Energy Routers in Smart Microgrids. IEEE Transactions on Power Systems, 2021, 36, 4457-4470.	6.5	16
26	Engineering inertial and primary-frequency response for distributed energy resources. , 2017, , .		15
27	Decentralized Provision of Renewable Predictions Within a Virtual Power Plant. IEEE Transactions on Power Systems, 2021, 36, 2652-2662.	6.5	15
28	Hierarchical Distributed Voltage Regulation in Networked Autonomous Grids. , 2019, , .		14
29	Primary frequency response with aggregated DERs. , 2017, , .		13
30	Review of energy sharing: Business models, mechanisms, and prospects. IET Renewable Power Generation, 2022, 16, 2468-2480.	3.1	13
31	Profit-Maximizing Planning and Control of Battery Energy Storage Systems for Primary Frequency Control. , 2018, , .		10
32	Quantification of Load Flexibility in Residential Buildings Using Home Energy Management Systems. , 2020, , .		9
33	Exponential stability of partial primalâ€™dual gradient dynamics with nonsmooth objective functions. Automatica, 2021, 129, 109585.	5.0	9
34	Solving Optimal Power Flow for Distribution Networks with State Estimation Feedback. , 2020, , .		8
35	Distributed Real-Time Power Flow control with renewable integration. , 2013, , .		7
36	Decentralized optimal frequency control of interconnected power systems with transient constraints. , 2016, , .		7

#	ARTICLE	IF	CITATIONS
37	Optimizing DER Participation in Inertial and Primary-Frequency Response. , 2019, , .		7
38	Distributed optimal load frequency control considering nonsmooth cost functions. Systems and Control Letters, 2020, 136, 104607.	2.3	7
39	Economic Dispatch With Distributed Energy Resources: Co-Optimization of Transmission and Distribution Systems. , 2021, 5, 1994-1999.		7
40	Distributed power flow loss minimization control for future grid. International Journal of Circuit Theory and Applications, 2015, 43, 1209-1225.	2.0	6
41	Distributed Automatic Load-Frequency Control with Optimality in Power Systems. , 2018, , .		5
42	Dynamic Restoration Strategy for Distribution System Resilience Enhancement. , 2020, , .		5
43	Optimal power scheduling of seaport microgrids with flexible logistic loads. IET Renewable Power Generation, 2022, 16, 2711-2720.	3.1	5
44	Network-cognizant design of decentralized Volt/VAR controllers. , 2017, , .		4
45	Optimal Energy Scheduling and Sensitivity Analysis for Integrated Powerâ€“Waterâ€“Heat Systems. IEEE Systems Journal, 2022, 16, 5176-5187.	4.6	4
46	Cyber Network Design for Secondary Frequency Regulation: A Spectral Approach. , 2018, , .		3
47	Distributed Frequency Control with Operational Constraints, Part II: Network Power Balance. , 2018, , .		2
48	Robust decentralized frequency control: A leaky integrator approach. , 2018, , .		2
49	A Model-Predictive Hierarchical-Control Framework for Aggregating Residential DERs to Provide Grid Regulation Services. , 2020, , .		2
50	Multi-Level Optimal Power Flow Solver in Large Distribution Networks. , 2020, , .		1
51	Optimal Sizing of Voltage Control Devices for Distribution Circuit with Intermittent Load. , 2015, , .		0
52	Economic Dispatch With Distributed Energy Resources: Co-Optimization of Transmission and Distribution Systems. , 2021, , .		0