

Merkebu Zenebe Degefa

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

744
citations

566801

15
h-index

642321

23
g-index

38
all docs

38
docs citations

38
times ranked

741
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive classifications and characterizations of power system flexibility resources. Electric Power Systems Research, 2021, 194, 107022.	2.1	65
2	Improving smart grid security through 5G enabled IoT and edge computing. Concurrency Computation Practice and Experience, 2021, 33, e6466.	1.4	24
3	Electric water heater flexibility potential and activation impact in system operator perspective “ Norwegian scenario case study. Energy, 2021, 236, 121490.	4.5	21
4	A Testbed for Advanced Distribution Management Systems: Assessment of Cybersecurity. , 2021, , .		1
5	The impact of flexible resources in distribution systems on the security of electricity supply: A literature review. Electric Power Systems Research, 2020, 188, 106532.	2.1	34
6	Test Procedure and Description for System Testing. , 2020, , 13-33.		0
7	Application of a Testing Chain Methodology for Improving Power Converter Controllers. , 2020, , .		0
8	ERIGrid Holistic Test Description for Validating Cyber-Physical Energy Systems. Energies, 2019, 12, 2722.	1.6	26
9	Data-driven Household Load Flexibility Modelling: Shiftable Atomic Load. , 2018, , .		7
10	An integrated pan-European research infrastructure for validating smart grid systems. Elektrotechnik Und Informationstechnik, 2018, 135, 616-622.	0.7	12
11	Flexibility offered to the distribution grid from households with a photovoltaic panel on their roof: Results and experiences from several pilots in a Norwegian research project. , 2018, , .		5
12	Design of experiments aided holistic testing of cyber-physical energy systems. , 2018, , .		7
13	Simulation-Based Validation of Smart Grids “ Status Quo and Future Research Trends. Lecture Notes in Computer Science, 2017, , 171-185.	1.0	33
14	Post-primary voltage control using optimal power flow for loss minimization within web-of-cells concept. , 2017, , .		0
15	Power hardware-in-the-loop validation of post-primary voltage control scheme. , 2017, , .		0
16	Seasonally variant deployment of electric battery storage systems in active distribution networks. CIRED - Open Access Proceedings Journal, 2017, 2017, 1975-1979.	0.1	4
17	Real-time matching of local generation and demand: The use of high resolution load modeling. , 2016, , .		0
18	Optimal Capacity Management of Substation Transformers Over Long-Run. IEEE Transactions on Power Systems, 2016, 31, 632-641.	4.6	11

#	ARTICLE	IF	CITATIONS
19	MAS-Based Modeling of Active Distribution Network: The Simulation of Emerging Behaviors. IEEE Transactions on Smart Grid, 2016, 7, 2615-2623.	6.2	14
20	Increased Utilization of Wind Generation by Coordinating the Demand Response and Real-time Thermal Rating. IEEE Transactions on Power Systems, 2016, 31, 3737-3746.	4.6	54
21	Optimal capacity planning of substation transformers by demand response combined with network automation. Electric Power Systems Research, 2016, 134, 176-185.	2.1	11
22	A Conditional Demand Analysis Based AMR Metered Load Disaggregation: a Case Study. International Review on Modelling and Simulations, 2016, 9, 64.	0.2	0
23	A high resolution model of residential internal heat gain " The subtle interdependencies among residential end uses. , 2015, , .		2
24	Optimal voltage control strategies for day-ahead active distribution network operation. Electric Power Systems Research, 2015, 127, 41-52.	2.1	32
25	Optimal use of demand response for lifesaving and efficient capacity utilization of power transformers during contingencies. , 2015, , .		8
26	Benefits of Real-Time Monitoring to Distribution Systems: Dynamic Thermal Rating. IEEE Transactions on Smart Grid, 2015, 6, 2023-2031.	6.2	52
27	Statistical modeling of aggregated electricity consumption and distributed wind generation in distribution systems using AMR data. Electric Power Systems Research, 2015, 129, 217-226.	2.1	11
28	Utilization Improvement of Transformers Using Demand Response. IEEE Transactions on Power Delivery, 2015, 30, 202-210.	2.9	60
29	Demand Response for Operational Life Extension and Efficient Capacity Utilization of Power Transformers During Contingencies. IEEE Transactions on Power Systems, 2015, 30, 2160-2169.	4.6	41
30	Heat Gains, Heating and Cooling in Nordic Housing with Electrical Space Heating. International Review of Electrical Engineering, 2015, 10, 599.	0.1	0
31	Dynamic thermal state forecasting of distribution network components: For enhanced active distribution network capacity. , 2014, , .		9
32	Distribution network reliability improvements in presence of demand response. IET Generation, Transmission and Distribution, 2014, 8, 2027-2035.	1.4	99
33	A virtual power plant for the aggregation of domestic heating load flexibility. , 2014, , .		5
34	Dynamic Thermal Modeling of MV/LV Prefabricated Substations. IEEE Transactions on Power Delivery, 2014, 29, 786-793.	2.9	15
35	Unlocking distribution network capacity through real-time thermal rating for high penetration of DGs. Electric Power Systems Research, 2014, 117, 36-46.	2.1	43
36	Load Flow Analysis Framework for Active Distribution Networks Based on Smart Meter Reading System. Engineering, 2013, 05, 1-8.	0.4	12

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37	Stochastic Characteristics of Load Profiling in Distribution Systems Based on AMR Measurements. International Review of Electrical Engineering, 2013, 8, 1833.	0.1	1
38	Comparison of Air-Gap Thermal Models for MV Power Cables Inside Unfilled Conduit. IEEE Transactions on Power Delivery, 2012, 27, 1662-1669.	2.9	25