

# Merkebu Zenebe Degefa

## List of Publications by Year in descending order

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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	Distribution network reliability improvements in presence of demand response. IET Generation, Transmission and Distribution, 2014, 8, 2027-2035.	1.4	99
2	Comprehensive classifications and characterizations of power system flexibility resources. Electric Power Systems Research, 2021, 194, 107022.	2.1	65
3	Utilization Improvement of Transformers Using Demand Response. IEEE Transactions on Power Delivery, 2015, 30, 202-210.	2.9	60
4	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
5	Benefits of Real-Time Monitoring to Distribution Systems: Dynamic Thermal Rating. IEEE Transactions on Smart Grid, 2015, 6, 2023-2031.	6.2	52
6	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
7	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
8	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
9	Simulation-Based Validation of Smart Grids " Status Quo and Future Research Trends. Lecture Notes in Computer Science, 2017, , 171-185.	1.0	33
10	Optimal voltage control strategies for day-ahead active distribution network operation. Electric Power Systems Research, 2015, 127, 41-52.	2.1	32
11	ERIGrid Holistic Test Description for Validating Cyber-Physical Energy Systems. Energies, 2019, 12, 2722.	1.6	26
12	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
13	Improving smart grid security through 5G enabled IoT and edge computing. Concurrency Computation Practice and Experience, 2021, 33, e6466.	1.4	24
14	Electric water heater flexibility potential and activation impact in system operator perspective " Norwegian scenario case study. Energy, 2021, 236, 121490.	4.5	21
15	Dynamic Thermal Modeling of MV/LV Prefabricated Substations. IEEE Transactions on Power Delivery, 2014, 29, 786-793.	2.9	15
16	MAS-Based Modeling of Active Distribution Network: The Simulation of Emerging Behaviors. IEEE Transactions on Smart Grid, 2016, 7, 2615-2623.	6.2	14
17	An integrated pan-European research infrastructure for validating smart grid systems. Elektrotechnik Und Informationstechnik, 2018, 135, 616-622.	0.7	12
18	Load Flow Analysis Framework for Active Distribution Networks Based on Smart Meter Reading System. Engineering, 2013, 05, 1-8.	0.4	12

#	ARTICLE	IF	CITATIONS
19	Statistical modeling of aggregated electricity consumption and distributed wind generation in distribution systems using AMR data. <i>Electric Power Systems Research</i> , 2015, 129, 217-226.	2.1	11
20	Optimal Capacity Management of Substation Transformers Over Long-Run. <i>IEEE Transactions on Power Systems</i> , 2016, 31, 632-641.	4.6	11
21	Optimal capacity planning of substation transformers by demand response combined with network automation. <i>Electric Power Systems Research</i> , 2016, 134, 176-185.	2.1	11
22	Dynamic thermal state forecasting of distribution network components: For enhanced active distribution network capacity. , 2014, , .		9
23	Optimal use of demand response for lifesaving and efficient capacity utilization of power transformers during contingencies. , 2015, , .		8
24	Data-driven Household Load Flexibility Modelling: Shiftable Atomic Load. , 2018, , .		7
25	Design of experiments aided holistic testing of cyber-physical energy systems. , 2018, , .		7
26	A virtual power plant for the aggregation of domestic heating load flexibility. , 2014, , .		5
27	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
28	Seasonally variant deployment of electric battery storage systems in active distribution networks. <i>CIREN - Open Access Proceedings Journal</i> , 2017, 2017, 1975-1979.	0.1	4
29	A high resolution model of residential internal heat gain " The subtle interdependencies among residential end uses. , 2015, , .		2
30	Stochastic Characteristics of Load Profiling in Distribution Systems Based on AMR Measurements. <i>International Review of Electrical Engineering</i> , 2013, 8, 1833.	0.1	1
31	A Testbed for Advanced Distribution Management Systems: Assessment of Cybersecurity. , 2021, , .		1
32	Real-time matching of local generation and demand: The use of high resolution load modeling. , 2016, , .		0
33	Post-primary voltage control using optimal power flow for loss minimization within web-of-cells concept. , 2017, , .		0
34	Power hardware-in-the-loop validation of post-primary voltage control scheme. , 2017, , .		0
35	Heat Gains, Heating and Cooling in Nordic Housing with Electrical Space Heating. <i>International Review of Electrical Engineering</i> , 2015, 10, 599.	0.1	0
36	A Conditional Demand Analysis Based AMR Metered Load Disaggregation: a Case Study. <i>International Review on Modelling and Simulations</i> , 2016, 9, 64.	0.2	0

#	ARTICLE	IF	CITATIONS
37	Test Procedure and Description for System Testing. , 2020, , 13-33.		0
38	Application of a Testing Chain Methodology for Improving Power Converter Controllers. , 2020, , .		0