

Hannu Laaksonen

List of Publications by Year in descending order

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56
papers

1,190
citations

759233

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395702

33
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59
all docs

59
docs citations

59
times ranked

1106
citing authors

#	ARTICLE	IF	CITATIONS
1	Protection Principles for Future Microgrids. IEEE Transactions on Power Electronics, 2010, 25, 2910-2918.	7.9	399
2	Adaptive Protection and Microgrid Control Design for Hailuoto Island. IEEE Transactions on Smart Grid, 2014, 5, 1486-1493.	9.0	151
3	Advanced Islanding Detection Functionality for Future Electricity Distribution Networks. IEEE Transactions on Power Delivery, 2013, 28, 2056-2064.	4.3	129
4	Soft Open Point in Distribution Networks. IEEE Access, 2020, 8, 210550-210565.	4.2	43
5	Towards Flexibility Trading at TSO-DSO-Customer Levels: A Review. Energies, 2020, 13, 165.	3.1	42
6	Optimized Operation of Local Energy Community Providing Frequency Restoration Reserve. IEEE Access, 2020, 8, 180558-180575.	4.2	41
7	Sizing and Allocation of Battery Energy Storage Systems in Åland Islands for Large-Scale Integration of Renewables and Electric Ferry Charging Stations. Energies, 2020, 13, 317.	3.1	31
8	An Islanding Detection Technique for Inverter-Based Distributed Generation in Microgrids. Energies, 2021, 14, 130.	3.1	29
9	A Local Capacity Market Providing Local and System-Wide Flexibility Services. IEEE Access, 2021, 9, 52336-52351.	4.2	20
10	Towards Flexible Distribution Systems: Future Adaptive Management Schemes. Applied Sciences (Switzerland), 2021, 11, 3709.	2.5	19
11	Solutions to Increase PV Hosting Capacity and Provision of Services from Flexible Energy Resources. Applied Sciences (Switzerland), 2020, 10, 5146.	2.5	18
12	Future Renewable Energy Communities Based Flexible Power Systems. Applied Sciences (Switzerland), 2022, 12, 121.	2.5	14
13	Inrush Current Management During Medium Voltage Microgrid Black Start With Battery Energy Storage System. IEEE Access, 2022, 10, 42287-42296.	4.2	14
14	Flexibility Services Provision by Frequency-Dependent Control of On-Load Tap-Changer and Distributed Energy Resources. IEEE Access, 2021, 9, 45587-45599.	4.2	13
15	Future-proof islanding detection schemes in Sundom Smart Grid. CIREN - Open Access Proceedings Journal, 2017, 2017, 1777-1781.	0.1	11
16	Method for high-impedance fault detection. CIREN - Open Access Proceedings Journal, 2017, 2017, 1295-1299.	0.1	11
17	Optimal Operation of Solar Powered Electric Vehicle Parking Lots Considering Different Photovoltaic Technologies. Clean Technologies, 2021, 3, 503-518.	4.2	11
18	Protection Scheme for Island Operated Medium-Voltage Microgrid. International Review of Electrical Engineering, 2015, 10, 510.	0.2	11

#	ARTICLE	IF	CITATIONS
19	Requirements for coordinated ancillary services covering different voltage levels. CIREN - Open Access Proceedings Journal, 2017, 2017, 1421-1424.	0.1	10
20	Functional Analysis of the Microgrid Concept Applied to Case Studies of the Sundom Smart Grid. Energies, 2020, 13, 4223.	3.1	10
21	Flexibility Potential of a Smart Home to Provide TSO-DSO-level Services. Electric Power Systems Research, 2022, 205, 107767.	3.6	10
22	Autonomous Soft Open Point Control for Active Distribution Network Voltage Level Management. , 2019, , .		9
23	Accelerated Real-Time Simulations for Testing a Reactive Power Flow Controller in Long-Term Case Studies. Journal of Electrical and Computer Engineering, 2020, 2020, 1-17.	0.9	9
24	Enhanced MV microgrid protection scheme for detecting high-impedance faults. , 2017, , .		8
25	Lithium-ion BESS Integration for Smart Grid Applications - ECM Modelling Approach. , 2020, , .		8
26	Islanding Detection During Intended Island Operation of Nested Microgrid. , 2018, , .		7
27	Prospects and Costs for Reactive Power Control in Sundom Smart Grid. , 2018, , .		7
28	Modelling and Simulation of Hybrid PV & BES Systems as Flexible Resources in Smartgrids – Sundom Smart Grid Case. , 2019, , .		7
29	Evolution of the Electricity Distribution Networks – Active Management Architecture Schemes and Microgrid Control Functionalities. Applied Sciences (Switzerland), 2021, 11, 2793.	2.5	7
30	Control and Management of Distribution Networks with Flexible Energy Resources. International Review of Electrical Engineering, 2020, 15, 213.	0.2	7
31	Applications of Probabilistic Forecasting in Smart Grids: A Review. Applied Sciences (Switzerland), 2022, 12, 1823.	2.5	7
32	Controller Development for Reactive Power Flow Management Between DSO and TSO Networks. , 2019, , .		6
33	A New Local Market Structure for Meeting Customer-Level Flexibility Needs. , 2020, , .		6
34	Modelling battery energy storage systems for active network management – coordinated control design and validation. IET Renewable Power Generation, 2021, 15, 2426-2437.	3.1	5
35	Comparison and Evaluation of State of Charge Estimation Methods for a Verified Battery Model. , 2020, , .		5
36	Three-Level Reduced Switch AC/DC/AC Power Conversion System for High Voltage Electric Vehicles. Sustainability, 2022, 14, 1620.	3.2	5

#	ARTICLE	IF	CITATIONS
37	Characterisation and Modelling Lithium Titanate Oxide Battery Cell by Equivalent Circuit Modelling Technique. , 2021, , .		5
38	Modeling a Local Electricity Market for Transactive Energy Trading of Multi-Aggregators. IEEE Access, 2022, 10, 68792-68806.	4.2	5
39	Integration and control of lithium-ion BESSs for active network management in smart grids: Sundom smart grid backup feeding case. Electrical Engineering, 2022, 104, 539-553.	2.0	4
40	Microgrid Protection with Conventional and Adaptive Protection Schemes. Power Systems, 2021, , 523-579.	0.5	4
41	Iterative Game Approach for Modeling the Behavior of Agents in a Competitive Flexibility Trading. IEEE Access, 2021, 9, 165227-165238.	4.2	4
42	Combined islanding detection scheme utilising active network management for future resilient distribution networks. Journal of Engineering, 2018, 2018, 1054-1060.	1.1	3
43	Peer-to-Peer Electricity Market Based on Local Supervision. IEEE Access, 2021, 9, 156647-156662.	4.2	3
44	A two-stage stochastic bilevel programming approach for offering strategy of DER aggregators in local and wholesale electricity markets. IET Renewable Power Generation, 0, , .	3.1	3
45	Active Building as an Electricity Network Service Provider. Green Energy and Technology, 2022, , 273-293.	0.6	3
46	Testing an IEC 61850-based Light-weighted Controller for Reactive Power Management in Smart Distribution Grids. , 2019, , .		2
47	Compliance of Distribution System Reactive Flows with Transmission System Requirements. Applied Sciences (Switzerland), 2021, 11, 7719.	2.5	2
48	Energy Management Systems of Grid-Connected Active Buildings. Green Energy and Technology, 2022, , 251-271.	0.6	2
49	Local market models. , 2021, , 79-90.		1
50	Role of Smart Homes and Smart Communities in Flexibility Provision. , 2021, , 21-40.		1
51	Adaptation of DER Control Schemes and Functions During MV Network Back-up Connection. , 2021, , .		1
52	Flexibility Forecast at Local Energy Community Level. , 2021, , .		1
53	Microgrids as energy and flexibility providers for TSO-level networks. CIRED - Open Access Proceedings Journal, 2020, 2020, 787-790.	0.1	1
54	Two-Layer Game-Based Framework for Local Energy Flexibility Trading. IEEE Access, 2022, 10, 68768-68777.	4.2	1

#	ARTICLE	IF	CITATIONS
55	Control and Co-ordination of Flexibilities for Active Network Management in Smart Grids – Li-ion BESS Fast Charging Case. , 2021, , .		0
56	Power Electronic Converters Simulation Model Verification for Grid Code Compliance Testing. , 2021, , .		0