

Complete Publication list
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Summary

This is a complete list of publications for the author Dr. Lina Bertling Tjernberg (Tjernberg from 2011) (<https://orcid.org/0000-0003-4763-9429>). The publications includes the following sections:

- A papers published in journals,
- B papers published in conferences (and of those in magazines),
- C Review articles, book chapters, course material etc,
- D Other scientific contributions,
- E Other publications and reports,
- F Demos, software, copyrights, popular science contributions etc.

The complete publication list (A-D) includes: 31 journal papers, 3 magazine papers, 115 conference papers, 2 books, 11 book chapters and 3 theses (all at KTH). Most of these publications are available from [IEEE Xplore Digital Library](#) or the [DIVA portal](#). Other publications (D and E) includes contributions to reports resulting from several working groups both national (e.g. IVA, SOU [2014:84](#)) and international (e.g. IEA,IEEE, Cigré) and internal reports. The last section includes popular science articles.

An overview of academic publications are provided at [ResearchGate](#) or [Google Scholar](#) Citation indices in Google Scholar updated on 2024-12-10 with direct link of: https://scholar.google.com/citations?user=avw6_okAAAJ

	All	Since 2019
Citations	8054	3235
h-index	36	26
i10-index	98	49

List of abbreviations:

- CIRED - International Conference on Electricity Distribution.
- CIGRE- global community committed to the collaborative development and sharing of power system expertise.
- IEA - International Energy Agency.
- IEEE - Institute of Electrical and Electronics Engineers.
- ISGT – Innovative Smart Grid Technology Conference (part of IEEE)
- IVA – The Royal Academy of Science
- PES GM – Power & Energy Society General Meeting (part of IEEE)
- PMAPS - International Conference on Probabilistic Methods Applied to Power Systems.
- PSCC - Power Systems Computation Conference.
- SOU – statens offentliga utredningar (governments official investigations).

A Published in journals (or accepted to be published)

1. G. Lal Rajora, M. A. Sanz-Bobi, L. Bertling Tjernberg, J. Eduardo Urrea Cabus, [A review of asset management using artificial intelligence-based machine learning models: Applications for the electric power and energy system](#), IET Generation, Transmission, and Distribution, June 2024. <https://doi.org/10.1049/gtd2.13183>

2. F. Chen a , J. Yan, Y. Liu , Y. Yan, L. Bertling Tjernberg, [A novel meta-learning approach for few-shot short-term wind power forecasting](#), Applied Energy, Elsevier, Volume 362, 15 May 2024, 122838 <https://doi.org/10.1016/j.apenergy.2024.122838>
3. Y. Bekele, G. Biru, L. Bertling Tjernberg, [On the design and optimization of distributed energy resources for sustainable grid-integrated microgrid in Ethiopia](#), International Journal of Hydrogen Energy, Elsevier, May 2023 . <https://doi.org/10.1016/j.ijhydene.2023.04.192>.
4. Borenius, S.; Gopalakrishnan, P.; Bertling Tjernberg, L.; Kantola, R. [Expert-Guided Security Risk Assessment of Evolving Power Grids](#). Energies 2022, 15, 3237.
5. Meysam, el alt. [A deep learning-based evolutionary model for short-term wind speed forecasting: A case study of the Lillgrund offshore wind farm](#), Energy conversion and Management, Elsevier, 236 (2021), 114002.
6. M. N. Meysam, el alt. [Wind Turbine Power output Prediction Using a New Hybrid Neuro-Evolutionary Method](#), Energy, Elsevier , 229 (2021), 120617.
7. A. Heydari el alt., [A Combined Fuzzy GMDH Neural Network and Grey Wolf Optimization Application for Wind Turbine Power Production Forecasting Considering SCADA Data](#), Energies 2021, 14, 3459. <https://doi.org/10.3390/en14123459>
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9. Y. Li *et al.*, [Investigation on liquid cold plate thermal management system with heat pipes for LiFePO₄ battery pack in electric vehicles](#), *Applied Thermal Engineering*, vol. 185, 2021.
10. Mazidi P., Du M., Bertling Tjernberg L., Sanz-Bobi M, [Health Condition Model for Wind Turbine Monitoring through Neural Networks and Proportional Hazard Models](#), Institution of Mechanical Engineers, Journal of Risk and Reliability, Vol. 231(5), Pages: 481–494, 2017.
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12. M. Du, L. Bertling Tjernberg, S. Ma, Q. He, L. Cheng, J. Guo, [A SOM based Anomaly Detection Method for Wind Turbines Health Management through SCADA Data](#), International Journal of Prognostics and Health Management, Vol. 7, Pages: 1-13, 2016.
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14. S Bahramirad, A Khodaei, J Matevson, Z Li, L Bertling, EA Passo, M. Fotuhi-Firuzabad, [Guest Editorial Special Section on Asset Management in Smart Grid](#), IEEE Transactions on Smart Grid, Vol. 6, No. 2., March 2015.
15. Bangalore P., Bertling Tjernberg L, [An artificial neural network approach for early fault detection of gearbox bearings](#), IEEE Transactions on Smart Grid, Vol. 6, No. 2., March 2015.
16. Salih S. N., Chen P., Carlson O., Bertling Tjernberg L., [Optimizing wind power hosting capacity of a distribution system using costs benefit analysis](#), IEEE Transactions on Power Delivery, Vol. 29, No. 3, June 2014.
17. Wang F., Tuan L. A., Tjernberg Bertling L, Mannikoff A., Bergman A., [A New Approach for Benefit Evaluation of Multi-Terminal VSC-HVDC Using A Proposed Mixed AC/DC Optimal Power Flow](#), IEEE Transactions on Power Delivery, Vol. 29, No. 1, Feb. 2014.
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21. Steen, D.; Le, T., Bertling, L., Carlson, O.: [Assessment of Electric Vehicle Charging Scenarios Based on Demographical Data](#). IEEE Transactions on Smart Grid, Vol. 3, No. 3, pp. 1457-1468, Sept. 2012.
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B Magazine papers (full paper review 2-3 reviewers)

1. J. K. Nøland, M. Hjelmeland, C. Hartmann, T. Øyvang, M. Korpås and L. B. Tjernberg, [Running Renewable-Rich Power Grids With Small Modular Reactors: Their grid-forming role in the future power system](#), in *IEEE Electrification Magazine*, vol. 12, no. 4, pp. 20-29, Dec. 2024, doi: 10.1109/MELE.2024.3473130.
2. J. K. Nøland, M. Hjelmeland, L. B. Tjernberg and C. Hartmann, [The Race to Realize Small Modular Reactors: Rapid Deployment of Clean Dispatchable Energy Sources](#), in *IEEE Power and Energy Magazine*, vol. 22, no. 3, pp. 90-103, May-June 2024, doi: 10.1109/MPE.2024.3357468.
3. H. Shafique, L. Bertling Tjernberg, D. -E. Archer and S. Wingstedt, [Behind the Meter Strategies: Energy management system with a Swedish case study](#), in *IEEE Electrification Magazine*, vol. 9, no. 3, pp. 112-119, Sept. 2021, doi: 10.1109/MELE.2021.3093638.

C Conference papers with referee-system (full paper review 2-3 reviewers)

1. C. E. Gil Simancas, C. Develder, L. Bertling Tjernberg and J. Driesen, A Dynamic Price Policy Method for Electricity Grids with Flexible Thermal Loads using Grey Box Model

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2. J. K. Nøland, M. Hjelmeland, M. Korpås, L. Bertling Tjernberg, The Potential of Small Modular Reactors to Provide System-Bearing Services in the Future Power Grid, In proceedings of IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe) 2024, Dubrovnik.
 3. Y. Bekele Beyene· Getachew Biru Worku· L. Bertling Tjernberg, Enhancing Voltage and Frequency Control in Islanded VSC-Based Microgrids: A PSO-Driven Multilayer Perceptron Approach, In proceedings of IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe) 2024, Dubrovnik.
 4. Y.C. Lin, Y. Bekele Beyene, Implications of EU Battery Regulation on Circular Economy: Barriers and Opportunities for Repurposing Electric Vehicle Batteries, In proceedings of IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe) 2024, Dubrovnik.
 5. G. Lal Rajora, L. Bertling Tjernberg, M. A. Sanz-Bobi, [Advancements and Challenges in Asset Management for HVDC Cable Systems: A Machine Learning Perspective](#), Proceedings of the International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Auckland, New Zealand, June 2024.
 6. T. Elmfeldt, Y. Arafat, L. Bertling Tjernberg, A. Lugnet, and G. Nyström, [Sector-coupling Green Hydrogen to Electrify Steel Production - A Case Study at Ovako Hofors](#), Proceedings of the International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Auckland, New Zealand, June 2024.
 7. T. Elmfeldt, L. Bertling Tjernberg, and C. Carlsund Levin, [Pumped Storage Hydroelectricity for a Sustainable Electricity Transition – With a Case Study of Juktan Power Station](#), Proceedings of the International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Auckland, New Zealand, June 2024.
 8. A. Dogra, L. Bertling Tjernberg, [Potential Impact of Electric Vehicles Connected to the Grid - A Pre-Study for the Swedish Power System](#), In proceedings of IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe) 2023, Grenoble.
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 11. L. Bertling Tjernberg, S. Uhrig, [Lifetime Extension Options for Electrical Equipment](#), In proceedings of the CIRED 2023, Rome, June 2023.
 12. L. Tunelid, M. Peri, S. Sathyamoorthy, H. Shafique, A. Rozas, L. Bertling Tjernberg, [Simplistic Revenue Based BESS Sizing Tool Developed in Python Using Historical Grid Data](#), In proceedings of IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), Novi Sad, Serbia October 2022. [10.1109/ISGT-Europe54678.2022.9960580](https://doi.org/10.1109/ISGT-Europe54678.2022.9960580)
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25. Q. Huang, Y. Cui, L. Bertling Tjernberg, P. Bangalore, [Wind Turbine Health Assessment Framework Based on Power Analysis Using Machine Learning Method](#), In proceedings of IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), Bucharest, Romania, September-October 2019.
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 30. C. J. Wallnerstrom, L. B. Tjernberg, P. Hilber, J. H. Jurgensen, "[Framework for system analyses of smart grid solutions with examples from the Gotland case](#)" in PMAPS, 2016, Beijing, October 2016. DOI DOI: [10.1109/PMAPS.2016.7763923](#)
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 36. Y. Arafat, L. Bertling Tjernberg and P. A. Gustafsson, [Possibilities of demand side management with Smart Meters](#), in 2015 CIRED Lyon, June 2015.
 37. Arafat Y., Bertling Tjernberg L., Gustafsson P.-A., [Experience from Real Tests on Multiple Smart Meter Switching](#), In Proceedings of IEEE PES ISGT Europe 2014, October 2014, Istanbul.
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 39. Bangalore P., Bertling Tjernberg L., [Self Evolving Neural Network Based Algorithm for Fault Prognosis in Wind Turbines: A Case Study](#), PMAPS 2014, Durham, July 2014.
 40. Puglia G., Bangalore P., Bertling Tjernberg L., [Cost Efficient Maintenance Strategies for Wind Power Systems Using LCC](#), PMAPS 2014, Durham, July 2014.
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