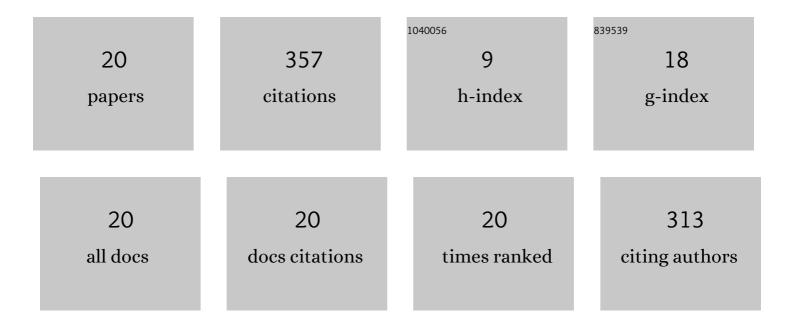
## Lars Nolting

List of Publications by Year in descending order

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LARS NOLTING

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A modeler's guide to handle complexity in energy systems optimization. Advances in Applied Energy, 2021, 4, 100063.   | 13.2 | 63        |
| 2  | Are complex energy system models more accurate? An intra-model comparison of power system optimization models. Applied Energy, 2019, 255, 113783.   | 10.1 | 48        |
| 3  | How to model European electricity load profiles using artificial neural networks. Applied Energy, 2020, 277, 115564.  | 10.1 | 43        |
| 4  | Complexity profiles: A large-scale review of energy system models in terms of complexity. Energy<br>Strategy Reviews, 2020, 30, 100515.   | 7.3  | 36        |
| 5  | Techno-economic analysis of flexible heat pump controls. Applied Energy, 2019, 238, 1417-1433.  | 10.1 | 28        |
| 6  | Typical periods or typical time steps? A multi-model analysis to determine the optimal temporal aggregation for energy system models. Applied Energy, 2021, 304, 117825.  | 10.1 | 23        |
| 7  | Time series of useful energy consumption patterns for energy system modeling. Scientific Data, 2021, 8, 148.  | 5.3  | 20        |
| 8  | Can we phase-out all of them? Probabilistic assessments of security of electricity supply for the German case. Applied Energy, 2020, 263, 114704.   | 10.1 | 12        |
| 9  | Does renewable electricity supply match with energy demand? – A spatio-temporal analysis for the<br>German case. Applied Energy, 2022, 308, 118226.   | 10.1 | 12        |
| 10 | Assessing the validity of European labels for energy efficiency of heat pumps. Journal of Building<br>Engineering, 2018, 18, 476-486.   | 3.4  | 11        |
| 11 | Mini-Grids for the Sustainable Electrification of Rural Areas in Sub-Saharan Africa: Assessing the<br>Potential of KeyMaker Models. Energies, 2020, 13, 6350.   | 3.1  | 10        |
| 12 | Can energy system modeling benefit from artificial neural networks? Application of two-stage<br>metamodels to reduce computation of security of supply assessments. Computers and Industrial<br>Engineering, 2020, 142, 106334. | 6.3  | 10        |
| 13 | Integrating Methods and Empirical Findings from Social and Behavioural Sciences into Energy System<br>Models—Motivation and Possible Approaches. Energies, 2020, 13, 4951.  | 3.1  | 9         |
| 14 | Generating Transparency in the Worldwide Use of the Terminology Industry 4.0. Applied Sciences<br>(Switzerland), 2019, 9, 4659.   | 2.5  | 7         |
| 15 | Locating experts and carving out the state of the art: A systematic review on Industry 4.0 and energy system analysis. International Journal of Energy Research, 2019, 43, 3981-4002.   | 4.5  | 6         |
| 16 | Environmental Impacts of Charging Concepts for Battery Electric Vehicles: A Comparison of On-Board<br>and Off-Board Charging Systems Based on a Life Cycle Assessment. Energies, 2020, 13, 6508.                                | 3.1  | 5         |
| 17 | Incentivizing timely investments in electrical grids: Analysis of the amendment of the German distribution grid regulation. Energy Policy, 2019, 132, 754-763.  | 8.8  | 4         |
| 18 | The potential of deep learning to reduce complexity in energy system modeling. International Journal of Energy Research, 2022, 46, 4550-4571.   | 4.5  | 4         |

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | A scalable life cycle assessment of alternating and direct current microgrids in office buildings.<br>Applied Energy, 2022, 305, 117878. | 10.1 | 3         |
| 20 | The complexity dilemma – Insights from security of electricity supply assessments. Energy, 2022, 241, 122522.                            | 8.8  | 3         |