

# Lars Nolting

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

357  
citations

1040056

9  
h-index

839539

18  
g-index

20  
all docs

20  
docs citations

20  
times ranked

313  
citing authors

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