

# Lion Hirth

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

4,122  
citations

236925

25  
h-index

345221

36  
g-index

45  
all docs

45  
docs citations

45  
times ranked

3187  
citing authors

#	ARTICLE	IF	CITATIONS
1	The market value of variable renewables. Energy Economics, 2013, 38, 218-236.	12.1	598
2	System LCOE: What are the costs of variable renewables?. Energy, 2013, 63, 61-75.	8.8	423
3	Integration costs revisited – An economic framework for wind and solar variability. Renewable Energy, 2015, 74, 925-939.	8.9	365
4	The importance of open data and software: Is energy research lagging behind?. Energy Policy, 2017, 101, 211-215.	8.8	245
5	Balancing power and variable renewables: Three links. Renewable and Sustainable Energy Reviews, 2015, 50, 1035-1051.	16.4	243
6	On the economics of renewable energy sources. Energy Economics, 2013, 40, S12-S23.	12.1	222
7	Carpe diem: A novel approach to select representative days for long-term power system modeling. Energy, 2016, 112, 430-442.	8.8	200
8	Opening the black box of energy modelling: Strategies and lessons learned. Energy Strategy Reviews, 2018, 19, 63-71.	7.3	168
9	The benefits of flexibility: The value of wind energy with hydropower. Applied Energy, 2016, 181, 210-223.	10.1	154
10	The role of capital costs in decarbonizing the electricity sector. Environmental Research Letters, 2016, 11, 114010.	5.2	134
11	The ENTSO-E Transparency Platform – A review of Europe’s most ambitious electricity data platform. Applied Energy, 2018, 225, 1054-1067.	10.1	128
12	System-friendly wind power. Energy Economics, 2016, 56, 51-63.	12.1	122
13	The Optimal Share of Variable Renewables: How the Variability of Wind and Solar Power affects their Welfare-optimal Deployment. Energy Journal, 2015, 36, 149-184.	1.7	109
14	Carbon Lock-Out: Advancing Renewable Energy Policy in Europe. Energies, 2012, 5, 323-354.	3.1	103
15	Time series of heat demand and heat pump efficiency for energy system modeling. Scientific Data, 2019, 6, 189.	5.3	94
16	Market value of solar power: Is photovoltaics cost-competitive?. IET Renewable Power Generation, 2015, 9, 37-45.	3.1	92
17	Redistribution effects of energy and climate policy: The electricity market. Energy Policy, 2013, 62, 934-947.	8.8	79
18	Why Wind Is Not Coal: On the Economics of Electricity Generation. Energy Journal, 2016, 37, 1-28.	1.7	77

#	ARTICLE	IF	CITATIONS
19	Open Power System Data – Frictionless data for electricity system modelling. Applied Energy, 2019, 236, 401-409.	10.1	69
20	What Caused the Drop in European Electricity Prices? A Factor Decomposition Analysis. Energy Journal, 2018, 39, 143-158.	1.7	69
21	A multi-country meta-analysis on the role of behavioural change in reducing energy consumption and CO2 emissions in residential buildings. Nature Energy, 2021, 6, 925-932.	39.5	66
22	Short-term electricity trading for system balancing: An empirical analysis of the role of intraday trading in balancing Germany's electricity system. Renewable and Sustainable Energy Reviews, 2019, 113, 109275.	16.4	50
23	On capital utilization in the hydrogen economy: The quest to minimize idle capacity in renewables-rich energy systems. International Journal of Hydrogen Energy, 2021, 46, 169-188.	7.1	49
24	Integration Costs and the Value of Wind Power. SSRN Electronic Journal, 0, , .	0.4	40
25	Flexible power and hydrogen production: Finding synergy between CCS and variable renewables. Energy, 2020, 192, 116671.	8.8	37
26	Heating with wind: Economics of heat pumps and variable renewables. Energy Economics, 2020, 92, 104967.	12.1	28
27	System LCOE: What are the Costs of Variable Renewables?. SSRN Electronic Journal, 2013, , .	0.4	21
28	Electricity balancing as a market equilibrium: An instrument-based estimation of supply and demand for imbalance energy. Energy Economics, 2021, 102, 105455.	12.1	20
29	Reforming the electric power industry in developing economies evidence on efficiency and electricity access outcomes. Energy Policy, 2020, 139, 111348.	8.8	18
30	Control power and variable renewables. , 2013, , .		13
31	The Optimal Share of Variable Renewables. SSRN Electronic Journal, 0, , .	0.4	11
32	Blue hydrogen and industrial base products: The future of fossil fuel exporters in a net-zero world. Journal of Cleaner Production, 2022, 363, 132347.	9.3	11
33	Open data for electricity modeling: Legal aspects. Energy Strategy Reviews, 2020, 27, 100433.	7.3	9
34	The Market Value of Wind and Solar Power: An Analytical Approach. SSRN Electronic Journal, 2016, , .	0.4	7
35	Balancing Power and Variable Renewables: A Glimpse at German Data. SSRN Electronic Journal, 0, , .	0.4	7
36	Minimal Thermal Generation in Power Systems - Inferring Private Cost Parameters from Observed Firm Behavior. SSRN Electronic Journal, 2015, , .	0.4	6

#	ARTICLE	IF	CITATIONS
37	How Much Electricity Do We Consume? A Guide to German and European Electricity Consumption and Generation Data. SSRN Electronic Journal, 0, , .	0.4	6
38	Why Wind is Not Coal: On the Economics of Electricity. SSRN Electronic Journal, 2014, , .	0.4	4
39	What Caused the Drop in European Electricity Prices?. SSRN Electronic Journal, 2016, , .	0.4	4
40	The Optimal Share of Variable Renewables. How the Variability of Wind and Solar Power Affects Their Welfare-Optimal Deployment. SSRN Electronic Journal, 2013, , .	0.4	3
41	Integration Costs and the Value of Wind Power. SSRN Electronic Journal, 0, , .	0.4	3
42	Technology-Neutral Auctions for Renewable Energy: EU Law vs. Member State Reality. Journal for European Environmental and Planning Law, 2019, 16, 386-406.	0.5	3
43	Short-Term Electricity Trading for System Balancing - An Empirical Analysis of the Role of Intraday Trading in Balancing Germany's Electricity System. SSRN Electronic Journal, 0, , .	0.4	1
44	Eyes on the Price: Which Power Generation Technologies Set the Market Price? Price Setting in European Electricity Markets: An Application to the Proposed Dutch Carbon Price Floor. SSRN Electronic Journal, 2019, , .	0.4	1