Bjarne Steffen

List of Publications by Year
in descending order

40 papers	2,189 citations	331259 21 h-index	329751 37 g-index
40 all docs	40 docs citations	40 times ranked	1737 citing authors

#	Article	IF	Citations
1	A dynamic analysis of financing conditions for renewable energy technologies. Nature Energy, 2018, 3, 1084-1092.	19.8	209
2	How do policies mobilize private finance for renewable energy?â€”A systematic review with an investor perspective. Applied Energy, 2019, 236, 1249-1268.	5.1	200
3	The multiple roles of state investment banks in low-carbon energy finance: An analysis of Australia, the UK and Germany. Energy Policy, 2018, 115, 158-170.	4.2	196
4	The importance of project finance for renewable energy projects. Energy Economics, 2018, 69, 280-294.	5.6	191
5	Estimating the cost of capital for renewable energy projects. Energy Economics, 2020, 88, 104783.	5.6	163
6	Prospects for pumped-hydro storage in Germany. Energy Policy, 2012, 45, 420-429.	4.2	155
7	Navigating the Clean Energy Transition in the COVID-19 Crisis. Joule, 2020, 4, 1137-1141.	11.7	134
8	Renewable energy investment risk: An investigation of changes over time and the underlying drivers. Energy Policy, 2020, 140, 111428.	4.2	107
9	Experience Curves for Operations and Maintenance Costs of Renewable Energy Technologies. Joule, 2020, 4, 359-375.	11.7	74
10	Efficient storage capacity in power systems with thermal and renewable generation. Energy Economics, 2013, 36, 556-567.	5.6	70
11	Adverse effects of rising interest rates on sustainable energy transitions. Nature Sustainability, 2019, 2, 879-885.	11.5	64
12	Additional Emissions and Cost from Storing Electricity in Stationary Battery Systems. Environmental Science & Technology, 2019, 53, 3379-3390.	4.6	58
13	Regulatory risk and the resilience of new sustainable business models in the energy sector. Journal of Cleaner Production, 2019, 219, 865-878.	4.6	50
14	Projecting the Competition between Energy-Storage Technologies in the Electricity Sector. Joule, 2020, 4, 2162-2184.	11.7	48
15	Optimal operation of pumped-hydro storage plants with continuous time-varying power prices. European Journal of Operational Research, 2016, 252, 308-321.	3.5	40
16	A quantitative analysis of 10 multilateral development banksâ€™ investment in conventional and renewable power-generation technologies from 2006 to 2015. Nature Energy, 2019, 4, 75-82.	19.8	40
17	Opening new markets for clean energy: The role of project developers in the global diffusion of renewable energy technologies. Business and Politics, 2018, 20, 553-587.	0.6	39
18	Bias in energy system models with uniform cost of capital assumption. Nature Communications, 2019, 10, 4588.	5.8	38

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19	Analyzing the competitiveness of low-carbon drive-technologies in road-freight: A total cost of ownership analysis in Europe. Applied Energy, 2022, 306, 118079.	5.1	34
20	The politics of climate finance: Consensus and partisanship in designing green state investment banks in the United Kingdom and Australia. Energy Research and Social Science, 2020, 69, 101583.	3.0	27
21	A comparative analysis of green financial policy output in OECD countries. Environmental Research Letters, 2021, 16, 074031.	2.2	23
22	Safeguarding the energy transition against political backlash to carbon markets. Nature Energy, 2022, 7, 290-296.	19.8	20
23	Measuring whether municipal climate networks make a difference: the case of utility-scale solar PV investment in large global cities. Climate Policy, 2019, 19, 908-922.	2.6	19
24	Strengthen finance in sustainability transitions research. Environmental Innovation and Societal Transitions, 2021, 41, 77-80.	2.5	19
25	Comparing CO2 emissions impacts of electricity storage across applications and energy systems. Joule, 2021, 5, 1501-1520.	11.7	18
26	The effect of differentiating costs of capital by country and technology on the European energy transition. Climatic Change, 2021, 167, 1.	1.7	18
27	Learning in the financial sector is essential for reducing renewable energy costs. Nature Energy, 2019, 4, 835-836.	19.8	17
28	Determinants of fossil fuel divestment in European pension funds. Ecological Economics, 2022, 191, 107237.	2.9	17
29	Understanding and accounting for the effect of exchange rate fluctuations on global learning rates. Nature Energy, 2020, 5, 71-78.	19.8	15
30	Accounting for finance in electrification models for sub-Saharan Africa. Nature Energy, 2022, 7, 631-641.	19.8	14
31	Determinants of cost of capital in the electricity sector. Progress in Energy, 2022, 4, 033001.	4.6	14
32	Historical and projected improvements in net energy performance of power generation technologies. Energy and Environmental Science, 2018, 11, 3524-3530.	15.6	13
33	Profitability of commercial and industrial photovoltaics and battery projects in South-East-Asia. Applied Energy, 2020, 271, 115218.	5.1	13
34	Financing the energy transition: four insights and avenues for future research. Environmental Research Letters, 2022, 17, 051003.	2.2	12
35	State ownership and technology adoption: The case of electric utilities and renewable energy. Research Policy, 2022, 51, 104534.	3.3	10
36	Estimating the Cost of Capital for Renewable Energy Projects. SSRN Electronic Journal, 2019, , .	0.4	5

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37	Representation of financial markets in macro-economic transition modelsâ€"a review and suggestions for extensions. Environmental Research Letters, 2022, 17, 083001.	2.2	3
38	Efficient Storage Capacity in Power Systems with Thermal and Renewable Generation. SSRN Electronic Journal, 0, , .	0.4	1
39	Generation portfolios with intermittent renewables: Is pumped-storage the efficient complement?. , 2012, , .		1
40	The Role of Public Banks in Catalyzing Private Renewable Energy Finance. , 2020, , 197-215.		0