

Tobias S Schmidt

List of Publications by Year in descending order

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76
papers

5,453
citations

81900

39
h-index

85541

71
g-index

77
all docs

77
docs citations

77
times ranked

4146
citing authors

#	ARTICLE	IF	CITATIONS
1	The economic viability of battery storage for residential solar photovoltaic systems – A review and a simulation model. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 1101-1118.	16.4	410
2	A review and probabilistic model of lifecycle costs of stationary batteries in multiple applications. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 25, 240-250.	16.4	261
3	A dynamic analysis of financing conditions for renewable energy technologies. <i>Nature Energy</i> , 2018, 3, 1084-1092.	39.5	209
4	How do policies mobilize private finance for renewable energy? – A systematic review with an investor perspective. <i>Applied Energy</i> , 2019, 236, 1249-1268.	10.1	200
5	The multiple roles of state investment banks in low-carbon energy finance: An analysis of Australia, the UK and Germany. <i>Energy Policy</i> , 2018, 115, 158-170.	8.8	196
6	Low-carbon investment risks and de-risking. <i>Nature Climate Change</i> , 2014, 4, 237-239.	18.8	193
7	The importance of project finance for renewable energy projects. <i>Energy Economics</i> , 2018, 69, 280-294.	12.1	191
8	Measuring the temporal dynamics of policy mixes – An empirical analysis of renewable energy policy mixes’ balance and design features in nine countries. <i>Research Policy</i> , 2019, 48, 103557.	6.4	177
9	Technology life-cycles in the energy sector – Technological characteristics and the role of deployment for innovation. <i>Technological Forecasting and Social Change</i> , 2016, 104, 102-121.	11.6	170
10	Estimating the cost of capital for renewable energy projects. <i>Energy Economics</i> , 2020, 88, 104783.	12.1	163
11	Rural electrification through village grids – Assessing the cost competitiveness of isolated renewable energy technologies in Indonesia. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 22, 482-496.	16.4	152
12	Technology as a driver of climate and energy politics. <i>Nature Energy</i> , 2017, 2, .	39.5	147
13	Use cases for stationary battery technologies: A review of the literature and existing projects. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 56, 705-721.	16.4	138
14	The effects of climate policy on the rate and direction of innovation: A survey of the EU ETS and the electricity sector. <i>Environmental Innovation and Societal Transitions</i> , 2012, 2, 23-48.	5.5	135
15	Navigating the Clean Energy Transition in the COVID-19 Crisis. <i>Joule</i> , 2020, 4, 1137-1141.	24.0	134
16	Japan's post-Fukushima challenge – implications from the German experience on renewable energy policy. <i>Energy Policy</i> , 2012, 45, 6-11.	8.8	112
17	Limiting the public cost of stationary battery deployment by combining Applications. <i>Nature Energy</i> , 2016, 1, .	39.5	106
18	Anticipating industry localization effects of clean technology deployment policies in developing countries. <i>Global Environmental Change</i> , 2016, 38, 8-20.	7.8	104

#	ARTICLE	IF	CITATIONS
19	The sectoral configuration of technological innovation systems: Patterns of knowledge development and diffusion in the lithium-ion battery technology in Japan. <i>Research Policy</i> , 2017, 46, 709-723.	6.4	104
20	Shedding light on solar technologiesâ€™A techno-economic assessment and its policy implications. <i>Energy Policy</i> , 2011, 39, 6422-6439.	8.8	99
21	The effect of local and global learning on the cost of renewable energy in developing countries. <i>Journal of Cleaner Production</i> , 2016, 128, 6-21.	9.3	95
22	Accelerating Low-Carbon Innovation. <i>Joule</i> , 2020, 4, 2259-2267.	24.0	76
23	Experience Curves for Operations and Maintenance Costs of Renewable Energy Technologies. <i>Joule</i> , 2020, 4, 359-375.	24.0	74
24	How a productâ€™s design hierarchy shapes the evolution of technological knowledgeâ€™Evidence from patent-citation networks in wind power. <i>Research Policy</i> , 2016, 45, 1195-1217.	6.4	71
25	Attracting private investments into rural electrification â€™ A case study on renewable energy based village grids in Indonesia. <i>Energy for Sustainable Development</i> , 2013, 17, 581-595.	4.5	69
26	Cost-efficient demand-pull policies for multi-purpose technologies â€™ The case of stationary electricity storage. <i>Applied Energy</i> , 2015, 155, 334-348.	10.1	67
27	Integrating finance into the multi-level perspective: Technology niche-finance regime interactions and financial policy interventions. <i>Research Policy</i> , 2020, 49, 103985.	6.4	65
28	Adverse effects of rising interest rates on sustainable energy transitions. <i>Nature Sustainability</i> , 2019, 2, 879-885.	23.7	64
29	The role of inter-sectoral learning in knowledge development and diffusion: Case studies on three clean energy technologies. <i>Technological Forecasting and Social Change</i> , 2019, 146, 464-487.	11.6	64
30	Managing tradeoffs in green industrial policies: The role of renewable energy policy design. <i>World Development</i> , 2019, 122, 11-26.	4.9	63
31	Internal or external spilloversâ€™Which kind of knowledge is more likely to flow within or across technologies. <i>Research Policy</i> , 2016, 45, 27-41.	6.4	61
32	Assessing the costs of photovoltaic and wind power in six developing countries. <i>Nature Climate Change</i> , 2012, 2, 548-553.	18.8	58
33	Additional Emissions and Cost from Storing Electricity in Stationary Battery Systems. <i>Environmental Science & Technology</i> , 2019, 53, 3379-3390.	10.0	58
34	Renewable energy policy as an enabler of fossil fuel subsidy reform? Applying a socio-technical perspective to the cases of South Africa and Tunisia. <i>Global Environmental Change</i> , 2017, 45, 99-110.	7.8	58
35	Explaining Advocacy Coalition Change with Policy Feedback. <i>Policy Studies Journal</i> , 2020, 48, 1109-1134.	5.1	57
36	Enabling Mini-Grid Development in Rural India. <i>World Development</i> , 2017, 93, 94-107.	4.9	56

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37	Projecting the Competition between Energy-Storage Technologies in the Electricity Sector. <i>Joule</i> , 2020, 4, 2162-2184.	24.0	48
38	Policy goals, partisanship and paradigmatic change in energy policy – analyzing parliamentary discourse in Germany over 30 years. <i>Climate Policy</i> , 2019, 19, 771-786.	5.1	47
39	Composting projects under the Clean Development Mechanism: Sustainable contribution to mitigate climate change. <i>Waste Management</i> , 2011, 31, 138-146.	7.4	43
40	Do deployment policies pick technologies by (not) picking applications? – A simulation of investment decisions in technologies with multiple applications. <i>Research Policy</i> , 2016, 45, 1965-1983.	6.4	43
41	The role of inter-sectoral knowledge spillovers in technological innovations: The case of lithium-ion batteries. <i>Technological Forecasting and Social Change</i> , 2019, 148, 119718.	11.6	43
42	The role of actors in the policy design process: introducing design coalitions to explain policy output. <i>Policy Sciences</i> , 2020, 53, 309-347.	2.8	41
43	Scaling up finance for off-grid renewable energy: The role of aggregation and spatial diversification in derisking investments in mini-grids for rural electrification in India. <i>Energy Policy</i> , 2017, 108, 657-672.	8.8	40
44	A quantitative analysis of 10 multilateral development banks’ investment in conventional and renewable power-generation technologies from 2006 to 2015. <i>Nature Energy</i> , 2019, 4, 75-82.	39.5	40
45	Opening new markets for clean energy: The role of project developers in the global diffusion of renewable energy technologies. <i>Business and Politics</i> , 2018, 20, 553-587.	0.8	39
46	Climate policy for short- and long-lived pollutants. <i>Nature Climate Change</i> , 2018, 8, 933-936.	18.8	38
47	Bias in energy system models with uniform cost of capital assumption. <i>Nature Communications</i> , 2019, 10, 4588.	12.8	38
48	An analysis of remote electric mini-grids in Laos using the Technological Innovation Systems approach. <i>Technological Forecasting and Social Change</i> , 2015, 95, 218-233.	11.6	36
49	Analyzing the competitiveness of low-carbon drive-technologies in road-freight: A total cost of ownership analysis in Europe. <i>Applied Energy</i> , 2022, 306, 118079.	10.1	34
50	Decarbonising the power sector via technological change – differing contributions from heterogeneous firms. <i>Energy Policy</i> , 2012, 43, 466-479.	8.8	33
51	Explaining the diffusion of biogas in India: a new functional approach considering national borders and technology transfer. <i>Environmental Economics and Policy Studies</i> , 2014, 16, 171-199.	2.0	31
52	The politics of climate finance: Consensus and partisanship in designing green state investment banks in the United Kingdom and Australia. <i>Energy Research and Social Science</i> , 2020, 69, 101583.	6.4	27
53	Transfer patterns in Phase I of the EU Emissions Trading System: a first reality check based on cluster analysis. <i>Climate Policy</i> , 2016, 16, 474-495.	5.1	25
54	Supporting energy technology deployment while avoiding unintended technological lock-in: a policy design perspective. <i>Environmental Research Letters</i> , 2018, 13, 104011.	5.2	24

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55	A "technology-smart" battery policy strategy for Europe. <i>Science</i> , 2018, 361, 1075-1077.	12.6	24
56	Hybridizing low-carbon technology deployment policy and fossil fuel subsidy reform: a climate finance perspective. <i>Environmental Research Letters</i> , 2017, 12, 014002.	5.2	23
57	A comparative analysis of green financial policy output in OECD countries. <i>Environmental Research Letters</i> , 2021, 16, 074031.	5.2	23
58	Performance of renewable energy technologies under the CDM. <i>Climate Policy</i> , 2010, 10, 17-37.	5.1	21
59	Safeguarding the energy transition against political backlash to carbon markets. <i>Nature Energy</i> , 2022, 7, 290-296.	39.5	20
60	Measuring whether municipal climate networks make a difference: the case of utility-scale solar PV investment in large global cities. <i>Climate Policy</i> , 2019, 19, 908-922.	5.1	19
61	Strengthen finance in sustainability transitions research. <i>Environmental Innovation and Societal Transitions</i> , 2021, 41, 77-80.	5.5	19
62	Comparing CO2 emissions impacts of electricity storage across applications and energy systems. <i>Joule</i> , 2021, 5, 1501-1520.	24.0	18
63	The effect of differentiating costs of capital by country and technology on the European energy transition. <i>Climatic Change</i> , 2021, 167, 1.	3.6	18
64	Learning in the financial sector is essential for reducing renewable energy costs. <i>Nature Energy</i> , 2019, 4, 835-836.	39.5	17
65	Understanding and accounting for the effect of exchange rate fluctuations on global learning rates. <i>Nature Energy</i> , 2020, 5, 71-78.	39.5	15
66	Governing complex societal problems: The impact of private on public regulation through technological change. <i>Regulation and Governance</i> , 2021, 15, 840-855.	2.9	14
67	Accounting for finance in electrification models for sub-Saharan Africa. <i>Nature Energy</i> , 2022, 7, 631-641.	39.5	14
68	Determinants of cost of capital in the electricity sector. <i>Progress in Energy</i> , 2022, 4, 033001.	10.9	14
69	Historical and projected improvements in net energy performance of power generation technologies. <i>Energy and Environmental Science</i> , 2018, 11, 3524-3530.	30.8	13
70	Profitability of commercial and industrial photovoltaics and battery projects in South-East-Asia. <i>Applied Energy</i> , 2020, 271, 115218.	10.1	13
71	Financing the energy transition: four insights and avenues for future research. <i>Environmental Research Letters</i> , 2022, 17, 051003.	5.2	12
72	State ownership and technology adoption: The case of electric utilities and renewable energy. <i>Research Policy</i> , 2022, 51, 104534.	6.4	10

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73	Spurring low-carbon electrosynthesis through energy and innovation policy. IScience, 2021, 24, 102045.	4.1	8
74	Making electrification models more realistic by incorporating differences in institutional quality and financing cost. Progress in Energy, 2020, 2, 013001.	10.9	6
75	Estimating the Cost of Capital for Renewable Energy Projects. SSRN Electronic Journal, 2019, , .	0.4	5
76	A Heuristic for Technology Strategies in Post-Kyoto Bottom-Up Climate Policy. SSRN Electronic Journal, 2015, , .	0.4	0