# Tobias S Schmidt

## List of Publications by Year
## in descending order

Source: https://exaly.com/author-pdf/6210086/publications.pdf

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|---|---|---|---|
| 76<br>papers | 5,453<br>citations | 81900<br>39<br>h-index | 85541<br>71<br>g-index |
| 77<br>all docs | 77<br>docs citations | 77<br>times ranked | 4146<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Analyzing the competitiveness of low-carbon drive-technologies in road-freight: A total cost of ownership analysis in Europe. Applied Energy, 2022, 306, 118079. | 10.1 | 34 |
| 2 | Safeguarding the energy transition against political backlash to carbon markets. Nature Energy, 2022, 7, 290-296. | 39.5 | 20 |
| 3 | Financing the energy transition: four insights and avenues for future research. Environmental Research Letters, 2022, 17, 051003. | 5.2 | 12 |
| 4 | State ownership and technology adoption: The case of electric utilities and renewable energy. Research Policy, 2022, 51, 104534. | 6.4 | 10 |
| 5 | Accounting for finance in electrification models for sub-Saharan Africa. Nature Energy, 2022, 7, 631-641. | 39.5 | 14 |
| 6 | Determinants of cost of capital in the electricity sector. Progress in Energy, 2022, 4, 033001. | 10.9 | 14 |
| 7 | Governing complex societal problems: The impact of private on public regulation through technological change. Regulation and Governance, 2021, 15, 840-855. | 2.9 | 14 |
| 8 | Spurring low-carbon electrosynthesis through energy and innovation policy. IScience, 2021, 24, 102045. | 4.1 | 8 |
| 9 | Comparing CO2 emissions impacts of electricity storage across applications and energy systems. Joule, 2021, 5, 1501-1520. | 24.0 | 18 |
| 10 | A comparative analysis of green financial policy output in OECD countries. Environmental Research Letters, 2021, 16, 074031. | 5.2 | 23 |
| 11 | The effect of differentiating costs of capital by country and technology on the European energy transition. Climatic Change, 2021, 167, 1. | 3.6 | 18 |
| 12 | Strengthen finance in sustainability transitions research. Environmental Innovation and Societal Transitions, 2021, 41, 77-80. | 5.5 | 19 |
| 13 | Explaining Advocacy Coalition Change with Policy Feedback. Policy Studies Journal, 2020, 48, 1109-1134. | 5.1 | 57 |
| 14 | Making electrification models more realistic by incorporating differences in institutional quality and financing cost. Progress in Energy, 2020, 2, 013001. | 10.9 | 6 |
| 15 | Understanding and accounting for the effect of exchange rate fluctuations on global learning rates. Nature Energy, 2020, 5, 71-78. | 39.5 | 15 |
| 16 | Experience Curves for Operations and Maintenance Costs of Renewable Energy Technologies. Joule, 2020, 4, 359-375. | 24.0 | 74 |
| 17 | The role of actors in the policy design process: introducing design coalitions to explain policy output. Policy Sciences, 2020, 53, 309-347. | 2.8 | 41 |
| 18 | Accelerating Low-Carbon Innovation. Joule, 2020, 4, 2259-2267. | 24.0 | 76 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Projecting the Competition between Energy-Storage Technologies in the Electricity Sector. Joule, 2020, 4, 2162-2184. | 24.0 | 48 |
| 20 | Navigating the Clean Energy Transition in the COVID-19 Crisis. Joule, 2020, 4, 1137-1141. | 24.0 | 134 |
| 21 | Estimating the cost of capital for renewable energy projects. Energy Economics, 2020, 88, 104783. | 12.1 | 163 |
| 22 | Integrating finance into the multi-level perspective: Technology niche-finance regime interactions and financial policy interventions. Research Policy, 2020, 49, 103985. | 6.4 | 65 |
| 23 | 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. | 6.4 | 27 |
| 24 | Profitability of commercial and industrial photovoltaics and battery projects in South-East-Asia. Applied Energy, 2020, 271, 115218. | 10.1 | 13 |
| 25 | Bias in energy system models with uniform cost of capital assumption. Nature Communications, 2019, 10, 4588. | 12.8 | 38 |
| 26 | Learning in the financial sector is essential for reducing renewable energy costs. Nature Energy, 2019, 4, 835-836. | 39.5 | 17 |
| 27 | The role of inter-sectoral knowledge spillovers in technological innovations: The case of lithium-ion batteries. Technological Forecasting and Social Change, 2019, 148, 119718. | 11.6 | 43 |
| 28 | Adverse effects of rising interest rates on sustainable energy transitions. Nature Sustainability, 2019, 2, 879-885. | 23.7 | 64 |
| 29 | Managing tradeoffs in green industrial policies: The role of renewable energy policy design. World Development, 2019, 122, 11-26. | 4.9 | 63 |
| 30 | Estimating the Cost of Capital for Renewable Energy Projects. SSRN Electronic Journal, 2019, , . | 0.4 | 5 |
| 31 | The role of inter-sectoral learning in knowledge development and diffusion: Case studies on three clean energy technologies. Technological Forecasting and Social Change, 2019, 146, 464-487. | 11.6 | 64 |
| 32 | Policy goals, partisanship and paradigmatic change in energy policy â€“ analyzing parliamentary discourse in Germany over 30 years. Climate Policy, 2019, 19, 771-786. | 5.1 | 47 |
| 33 | Additional Emissions and Cost from Storing Electricity in Stationary Battery Systems. Environmental Science &amp; Technology, 2019, 53, 3379-3390. | 10.0 | 58 |
| 34 | 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. | 5.1 | 19 |
| 35 | 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. | 39.5 | 40 |
| 36 | How do policies mobilize private finance for renewable energy?â€"A systematic review with an investor perspective. Applied Energy, 2019, 236, 1249-1268. | 10.1 | 200 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Measuring the temporal dynamics of policy mixes â€“ An empirical analysis of renewable energy policy mixesâ€™ balance and design features in nine countries. Research Policy, 2019, 48, 103557. | 6.4 | 177 |
| 38 | 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. | 8.8 | 196 |
| 39 | The importance of project finance for renewable energy projects. Energy Economics, 2018, 69, 280-294. | 12.1 | 191 |
| 40 | Historical and projected improvements in net energy performance of power generation technologies. Energy and Environmental Science, 2018, 11, 3524-3530. | 30.8 | 13 |
| 41 | Supporting energy technology deployment while avoiding unintended technological lock-in: a policy design perspective. Environmental Research Letters, 2018, 13, 104011. | 5.2 | 24 |
| 42 | A dynamic analysis of financing conditions for renewable energy technologies. Nature Energy, 2018, 3, 1084-1092. | 39.5 | 209 |
| 43 | Climate policy for short- and long-lived pollutants. Nature Climate Change, 2018, 8, 933-936. | 18.8 | 38 |
| 44 | 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. | 0.8 | 39 |
| 45 | A â€œtechnology-smartâ€•battery policy strategy for Europe. Science, 2018, 361, 1075-1077. | 12.6 | 24 |
| 46 | Enabling Mini-Grid Development in Rural India. World Development, 2017, 93, 94-107. | 4.9 | 56 |
| 47 | Hybridizing low-carbon technology deployment policy and fossil fuel subsidy reform: a climate finance perspective. Environmental Research Letters, 2017, 12, 014002. | 5.2 | 23 |
| 48 | The sectoral configuration of technological innovation systems: Patterns of knowledge development and diffusion in the lithium-ion battery technology in Japan. Research Policy, 2017, 46, 709-723. | 6.4 | 104 |
| 49 | Technology as a driver of climate and energy politics. Nature Energy, 2017, 2, . | 39.5 | 147 |
| 50 | 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. Energy Policy, 2017, 108, 657-672. | 8.8 | 40 |
| 51 | Renewable energy policy as an enabler of fossil fuel subsidy reform? Applying a socio-technical perspective to the cases of South Africa and Tunisia. Global Environmental Change, 2017, 45, 99-110. | 7.8 | 58 |
| 52 | The effect of local and global learning on the cost of renewable energy in developing countries. Journal of Cleaner Production, 2016, 128, 6-21. | 9.3 | 95 |
| 53 | Do deployment policies pick technologies by (not) picking applications?â€”A simulation of investment decisions in technologies with multiple applications. Research Policy, 2016, 45, 1965-1983. | 6.4 | 43 |
| 54 | Limiting the public cost of stationary battery deployment by combiningÂapplications. Nature Energy, 2016, 1, . | 39.5 | 106 |

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|---|---|---|---|
| 55 | Anticipating industry localization effects of clean technology deployment policies in developing countries. Global Environmental Change, 2016, 38, 8-20. | 7.8 | 104 |
| 56 | How a productâ€™s design hierarchy shapes the evolution of technological knowledgeâ€"Evidence from patent-citation networks in wind power. Research Policy, 2016, 45, 1195-1217. | 6.4 | 71 |
| 57 | Technology life-cycles in the energy sector â€" Technological characteristics and the role of deployment for innovation. Technological Forecasting and Social Change, 2016, 104, 102-121. | 11.6 | 170 |
| 58 | Transfer patterns in Phase I of the EU Emissions Trading System: a first reality check based on cluster analysis. Climate Policy, 2016, 16, 474-495. | 5.1 | 25 |
| 59 | Use cases for stationary battery technologies: A review of the literature and existing projects. Renewable and Sustainable Energy Reviews, 2016, 56, 705-721. | 16.4 | 138 |
| 60 | Internal or external spilloversâ€"Which kind of knowledge is more likely to flow within or across technologies. Research Policy, 2016, 45, 27-41. | 6.4 | 61 |
| 61 | A Heuristic for Technology Strategies in Post-Kyoto Bottom-Up Climate Policy. SSRN Electronic Journal, 2015, , . | 0.4 | 0 |
| 62 | An analysis of remote electric mini-grids in Laos using the Technological Innovation Systems approach. Technological Forecasting and Social Change, 2015, 95, 218-233. | 11.6 | 36 |
| 63 | Cost-efficient demand-pull policies for multi-purpose technologies â€" The case of stationary electricity storage. Applied Energy, 2015, 155, 334-348. | 10.1 | 67 |
| 64 | Low-carbon investment risks and de-risking. Nature Climate Change, 2014, 4, 237-239. | 18.8 | 193 |
| 65 | Explaining the diffusion of biogas in India: a new functional approach considering national borders and technology transfer. Environmental Economics and Policy Studies, 2014, 16, 171-199. | 2.0 | 31 |
| 66 | The economic viability of battery storage for residential solar photovoltaic systems â€" A review and a simulation model. Renewable and Sustainable Energy Reviews, 2014, 39, 1101-1118. | 16.4 | 410 |
| 67 | Rural electrification through village gridsâ€"Assessing the cost competitiveness of isolated renewable energy technologies in Indonesia. Renewable and Sustainable Energy Reviews, 2013, 22, 482-496. | 16.4 | 152 |
| 68 | Attracting private investments into rural electrification â€" A case study on renewable energy based village grids in Indonesia. Energy for Sustainable Development, 2013, 17, 581-595. | 4.5 | 69 |
| 69 | A review and probabilistic model of lifecycle costs of stationary batteries in multiple applications. Renewable and Sustainable Energy Reviews, 2013, 25, 240-250. | 16.4 | 261 |
| 70 | The effects of climate policy on the rate and direction of innovation: A survey of the EU ETS and the electricity sector. Environmental Innovation and Societal Transitions, 2012, 2, 23-48. | 5.5 | 135 |
| 71 | Assessing the costs of photovoltaic and wind power in six developing countries. Nature Climate Change, 2012, 2, 548-553. | 18.8 | 58 |
| 72 | Decarbonising the power sector via technological change â€" differing contributions from heterogeneous firms. Energy Policy, 2012, 43, 466-479. | 8.8 | 33 |

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|---|---|---|---|
| 73 | Japan's post-Fukushima challenge â€“ implications from the German experience on renewable energy policy. Energy Policy, 2012, 45, 6-11. | 8.8 | 112 |
| 74 | Shedding light on solar technologiesâ€"A techno-economic assessment and its policy implications. Energy Policy, 2011, 39, 6422-6439. | 8.8 | 99 |
| 75 | Composting projects under the Clean Development Mechanism: Sustainable contribution to mitigate climate change. Waste Management, 2011, 31, 138-146. | 7.4 | 43 |
| 76 | Performance of renewable energy technologies under the CDM. Climate Policy, 2010, 10, 17-37. | 5.1 | 21 |