

Publications

1. Climate policy

Academic journals

Can digital monitoring, reporting, and verification (dMRV) unlock industrial CO₂ capture and removal in carbon markets?, in: *Environmental Research Letters*, 20, 2025, 121002
(with *Paulien Veen, Malte Winkler and Soyoung Oh*)

Effective and fair policy to mobilize industrial carbon dioxide removal, in: *Mitigation and Adaptation Strategies for Global Change*, 30, 2025, <https://doi.org/10.1007/s11027-025-10235-8>
(with *Soyoung Oh, Samuel Eberenz, Matthias Honegger, Olivia Wallis and Matthias Poralla*)

Exploring key dimensions of policy instruments for carbon dioxide removal, in: *Climate Policy*, <https://doi.org/10.1080/14693062.2025.2521118>
(with *Malte Winkler, Soyoung Oh, Antonia Holland-Cunz, Matthias Honegger, Matthias Poralla and Alicia Vollmer*)

Additionality revisited for Blue Carbon ecosystems: Ensuring real climate mitigation, in: *Global Change Biology*, 31, 2025, e70181
(with *Phillip Williamson, Catrina Gore, Sophia Johannessen, Erik Kristensen, Faming Wang and Jingfan Zhang*)

Review of economics and policies of Carbon Dioxide Removal, in: *Current Sustainable/Renewable Energy Reports*, 12:6, 2025, <https://doi.org/10.1007/s40518-025-00252-1>
(with *Soyoung Oh, Jenna Greene and Matthias Honegger*)

How does polycentric engagement relate to countries' NDC ambition and mitigation policy effort?, in: *Global Environmental Politics*, 24, 2024, p. 48-74
(with *Paula Castro and Marlene Kammerer*)

International carbon markets for carbon dioxide removal, in: *PLOS Climate*, 2, 2023, e0000118.
(with *Matthias Honegger, Matthias Poralla, Malte Winkler, Sandra Dalfume and Ankita Nayak*)

Policies for climate finance: Status and research needs, in: *PLOS Climate*, 1, 2022, e0000083
(with *Bjarne Steffen*)

Towards net zero: making baselines for international carbon markets dynamic by applying 'ambition coefficients', in: *Climate Policy*, 22, 2022, p. 1343-1355
(with *Katharina Michaelowa, Lukas Hermwille and Aglaja Espelage*)

International carbon markets in the run-up to COP27 and beyond, in: *Oxford Energy Forum*, 133, 2022, p. 41-44
(with *Michele Stua*)

The ABC of governance principles for Carbon Dioxide Removal policy, in: *Frontiers in Climate*, 2022, 4:884163
(with *Matthias Honegger, Christian Baatz, Samuel Eberenz, Antonia Holland-Cunz, Benno Pokorny, Matthias Poralla and Malte Winkler*)

Governance of fragmented compliance and voluntary carbon markets under the Paris Agreement, in: *Politics and Governance*, 10, 2022, <https://doi.org/10.17645/pag.v10i1.4759>
(with *Hanna-Mari Ahonen, Juliana Kessler, Aglaja Espelage and Stephan Hoch*)

Potential implications of solar radiation modification for achievement of the Sustainable Development Goals, in: *Mitigation and Adaptation Strategies for Global Change*, 26, 2021, <https://doi.org/10.1007/s11027-021-09958-1>
(with *Matthias Honegger and Jiahua Pan*)

Who is paying for Carbon Dioxide Removal? Designing policy instruments for mobilizing Negative Emissions Technologies, in: *Frontiers in Climate*, 2021, 3:672996. doi: 10.3389/fclim.2021.672996
(with *Matthias Honegger, Matthias Poralla and Hanna-Mari Ahonen*)

Potential implications of carbon dioxide removal for the sustainable development goals, in: *Climate Policy*, 21, 2021, p. 678-698

(with Matthias Honegger and Joyashree Roy)

Solar Radiation Modification - A “silver bullet” climate policy for populist and authoritarian regimes?, in: *Global Policy*, 12, Supplement 1, 2021, p. 119-128

Catalysing private and public action for climate change mitigation: the World Bank’s role in international carbon markets, in: *Climate Policy*, 21, 2021, p. 120-132

(with Katharina Michaelowa, Igor Shishlov and Dario Brescia)

Mobilising private climate finance for sustainable energy access and climate change mitigation in Sub-Saharan Africa, in: *Climate Policy*, 21, 2021, p. 47-62

(with Stephan Hoch, Anne-Kathrin Weber, Ruth Kassaye and Tesfaye Hailu)

Do MDB trust funds allocate climate finance efficiently?, in: *Sustainability*, 12, 2020, No. 14, #5529, <https://doi.org/10.3390/su12145529>

(with Katharina Michaelowa, Bernhard Reinsberg and Igor Shishlov)

Governing complexity: How can the interplay of multilateral environmental agreements be harnessed for effective international market-based climate policy instruments?, in: *International Environmental Agreements*, 19, 2019, p. 595-613

(with Stephan Hoch, Aglaja Espelage and Anne-Kathrin Weber)

Evolution of international carbon markets: lessons for the Paris Agreement, in: *WIREs Climate Change*, 10, 2019, e613, DOI: 10.1002/wcc.613

(with Igor Shishlov and Dario Brescia)

Additionality revisited: guarding the integrity of market mechanisms under the Paris Agreement, in: *Climate Policy*, 19, 2019, p. 1211–1224

(with Lukas Hermwille, Wolfgang Obergassel and Sonja Butzengeiger)

How to operationalize accounting under Article 6 market mechanisms of the Paris Agreement, in: *Climate Policy*, 19, 2019, p. 812-819

(with Benito Müller)

Policy instruments for limiting global temperature rise to 1.5°C – can humanity rise to the challenge?, in: *Climate Policy*, 18, 2018, p. 275-286

(with Myles Allen and Fu Sha)

Renewable energy policy as an enabler of fossil fuel subsidy reform? Applying a socio-technical perspective to the cases of South Africa and Tunisia, in: *Global Environmental Change*, 45, 2017, p. 99-110

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(with Katharina Michaelowa)

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(with *Martin Stadelmann, Åsa Persson and Izabela Ratajczak-Juszko*)

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(with *Martin Stadelmann, Åsa Persson and Izabela Ratajczak-Juszko*)

Limiting Climate Change by Fostering Net Avoided Emissions, in: *Carbon and Climate Law Review*, 1/2014, p. 55-64
(with *Michel Köhler*)

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(with *Martin Stadelmann and Timmons Roberts*)

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(with *Matthias Honegger and Kushini Sugathapala*)

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(with *Daisuke Hayashi*)

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(with *Randall Spalding-Fecher*)

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(with *Katharina Michaelowa*)

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(with *Katharina Michaelowa*)

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(with *Martin Stadelmann and J. Timmons Roberts*)

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(with *Katharina Michaelowa*)

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(with *Paula Castro*)

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(with *Yuri Okubo and Daisuke Hayashi*)

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(with *Benito Müller*)

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(with *Sonja Butzengeiger*)

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(with *Daisuke Hayashi and Marc Marr*)

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(with *John O'Brien*)

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(with *Tran Minh Tuyen*)

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(with *Michael Dutschke*)

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(with *Michael Dutschke and Sonja Butzengeiger*)

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