

Publikationen

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Aufsätze mit Begutachtungsverfahren

- [Distinguish between feasibility and desirability when assessing climate response options](#), in: npj Clim. Action 4, 34, April 2025, <https://doi.org/10.1038/s44168-025-00237-2> (with Lukas Tank, Lieske Voegt-Kleschin, Matthias Garschagen, Nadine Mengis, Antonia Holland-Cunz, Gregor Rehder & Christian Baatz).
- [A Holistic Assessment Framework for Marine Carbon Dioxide Removal Options](#), in: Environmental Research Letters, 40, 5, April 2025, <https://doi.org/10.1088/1748-9326/adc93f> (with Christian Baatz, Lukas Tank, Lena-Katharina Bednarz, Teresa Maria Morganti, Lieske Voegt-Kleschin, Tony Cabus, Erik van Doorn, Tabea Dorndorf, Felix Havermann, Wanda Holzhüter, David Keller, Matthias Kreuzburg, Nele Matz-Lück, Nadine Mengis, Christine Merk, Yiannis Moustakis, Julia Pongratz, Hendrikje Wehnert, Wanxuan Yao & Gregor Rehder).
- [Exploring site-specific carbon dioxide removal options with storage or sequestration in the marine environment – the 10 Mt CO₂ yr⁻¹ removal challenge for Germany](#), in: Earth's Future, 13, April 2025, <https://doi.org/10.1029/2024EF004902> (with Wanxuan Yao, Teresa M. Morganti, Jiajun Wu, Malgorzata Borchers, Anna-Adriana Anschütz, Lena-Katharina Bednarz, Amrita Bhaumik, Kremena Burkhard, Tony Cabus, Allison Chua, Isabel Diercks, Mario Esposito, Michael Fink, Mondane Fouqueray...).
- [The potential of the BBNJ clearing house mechanism to enhance knowledge pluralism in marine carbon dioxide removal assessment](#), in: Frontiers in Climate: Carbon Dioxide Removal, Vol 6, December 2024, <https://doi.org/10.3389/fclim.2024.1497476> (with Kerry Brent).
- [The rise, fall and rebirth of ocean carbon sequestration as a climate 'solution'](#), in: Global Environmental Change, 85, March 2024, <https://doi.org/10.1016/j.gloenvcha.2024.102820> (with Kari de Pryck).
- [Editorial: Carbon dioxide removal: perspectives from the social sciences and humanities](#), in: Frontiers in Climate: Carbon Dioxide Removal, 6, 2024, <https://doi.org/10.3389/fclim.2024.1509331> (with Anders Hansson, Shinichiro Asayama & Mathias Fridahl).
- [Foresight*: Pathogens from the Permafrost](#), SWP Comment 2024/C 23, Stiftung Wissenschaft und Politik, June 2024, <https://doi.org/10.18449/2024C23> (with Michael Bayerlein, Bettina Rudloff & Pedro A. Villarreal Lizárraga).

- [Foresight: Multilevel Climate Policy in 2030](#), Working Paper No. 2, Stiftung Wissenschaft und Politik, August 2024 (with Ole Adolphsen, Oliver Geden, Jule Köneke, Felix Schenuit & Sonja Thielges).
- [Mögliche Zukünfte: CO₂-Transport- und Speichieranlagen im maritimen Raum](#), in: D. Voelsen (Ed.), Maritime kritische Infrastrukturen: Strategische Bedeutung und geeignete Schutzmaßnahmen, Stiftung Wissenschaft und Politik, Berlin 2024 (with Oliver Geden).
- [An earth system governance research agenda for carbon removal](#). *Earth System Governance*, 19, January 2024, <https://doi.org/10.1016/j.esg.2024.100204> (with Sean Low, Shinichiro Asayama, Chad Baum, Amanda Borth, Calum Brown, Forrest Clingerman, Peter Dauvergne, Kari De Pryck, Aarti Gupta, Matthias Honegger, Dominic Lenzi, Renate Reitsma, Felix Schenuit, Celina Scott-Buechler, Jose Maria Valenzuela).
- [Novel carbon dioxide removals techniques must be integrated into the European Union's climate policies](#), in: *Communications Earth & Environment*, 4(1), 2023, <https://doi.org/10.1038/s43247-023-01121-9> (with Mathias Fridahl, Felix Schenuit, Liv Lundberg, Kenneth Möllersten, Wilfried Rickels & Anders Hanssen).
- [Social Considerations and Best Practices for Engaging Publics on Ocean Alkalinity Enhancement](#), in: *State of the Planet*, November 2023, <https://doi.org/10.5194/sp-2023-3> (with Terre Satterfield & Sara Nawaz).
- [The living infinite: Envisioning futures for transformed human-nature relationships on the high seas](#), in: *Marine Policy*, 153, 2023, <https://doi.org/10.1016/j.marpol.2023.105644> (with Laura Pereira, Guillermo Ortuño Crespo, Diva J. Amon, Renuka Badhe, Salomão Bandeira, Frida Bengtsson, Gabrielle Carmine, William W. L. Cheung, Bwalya Chibwe, Daniel Dunn, Maria A. Gasalla, M. A., Ghassen Halouani, David E. Johnson, Jean-Baptiste Jouffray, Silvana Juri, Patrick W. Keys, Hannah M. Lübker, Andrew S. Merrie, Farah Obaidullah & Wei Zhou).
- [Specialty grand challenge: Renaming our section to 'Carbon Dioxide Removal'](#), in: *Frontiers in Climate*, 5, 2023, <https://doi.org/10.3389/fclim.2023.1279109> (with Phil Renforth, Rob Bellamy, David Beerling, Davide Bonalumi, Miguel Brandão, Mathias Fridahl, Sabine Fuss, Anders Hansson, Clare Heyward, Ben Kolosz, Patrick Lamers, Duncan McLaren, Raffaella Pomi, Daniel L. Sanchez, Soheil Shayegh, Volker Sick, Mijndert van der Spek, Vikram Vishal & Jennifer Wilcox).
- [Secure robust carbon dioxide removal policy through credible certification](#), in: *Communications Earth & Environment*, 4(1), 2023, <https://doi.org/10.1038/s43247-023-01014-x> (with Felix Schenuit, Matthew Gidden, Elina Brutschin, Claire Fyson, Thomas Gasser, Oliver Geden, William F. Lamb, M. J. Mace, Jan Minx & Keywan Riahi).
- ["Carbon Management": Opportunities and risks for ambitious climate policy](#), SWP Comment 2023/C 29, 26.05.2023, doi:10.18449/2023C29 (with Felix Schenuit & Oliver Geden).

- [The formative phase of German carbon dioxide removal policy: Positioning between precaution, pragmatism and innovation](#), in: Energy Research & Social Science, April 2023, <https://doi.org/10.1016/j.erss.2023.103018> (with Felix Schenuit & Oliver Geden).
- [mCDR Foresight Scenarios: Policy Frameworks for Marine Carbon Dioxide Removal in 2040](#), Working Paper No. 2, Stiftung Wissenschaft & Politik, April 2023.
- [Into the Blue: The Role of the Ocean in Climate Policy](#), SWP Comment 2023/C 12, 01.03.2023, [doi:10.18449/2023C12](https://doi.org/10.18449/2023C12) (with Felix Schenuit & Oliver Geden).
- [Carbon Dioxide Removal As an Integral Building Block of the European Green Deal](#), SWP Comment 2022/C 40, 16.06.2022, [doi:10.18449/2022C40](https://doi.org/10.18449/2022C40) (with Felix Schenuit & Oliver Geden).
- [Arguments and architectures: Discursive and institutional structures shaping global climate engineering governance](#), in: Environmental Science & Policy, Volume 128, February 2022, [doi:10.1016/j.envsci.2021.11.015](https://doi.org/10.1016/j.envsci.2021.11.015) (with Rakhyun E. Kim)
- [A Leap of Green Faith: the religious discourse of Socio-Ecological Care as an Earth system governmentality](#), in: Journal of Environmental Policy and Planning, July 2021, [doi:10.1080/1523908X.2021.1956310](https://doi.org/10.1080/1523908X.2021.1956310).
- [Navigating potential hype and opportunity in governing marine carbon removal](#), in: Frontiers in Climate, June 2021, [doi:10.3389/fclim.2021.664456](https://doi.org/10.3389/fclim.2021.664456) (with Kerrynt Brent, Holly Jean Buck, Sean Low, Duncan McLaren und Nadine Mengis).
- [Casting a wider net on ocean NETs](#), in: Frontiers in Climate, February 2021, [doi:10.3389/fclim.2021.576294](https://doi.org/10.3389/fclim.2021.576294) (with Emily Cox, Elspeth Spence, Rob Bellamy).
- [Coming to GRIPs with NETs Discourse: Implications of discursive structures for emerging governance of Negative Emissions Technologies in the UK](#), in: Frontiers in Climate, 2 (20), November 2020, [doi:10.3389/fclim.2020.595685](https://doi.org/10.3389/fclim.2020.595685).
- [Delaying decarbonization: Climate governmentalities and sociotechnical strategies from Copenhagen to Paris](#), in: Earth System Governance, 5, 2020 [doi:10.1016/j.esg.2020.100073](https://doi.org/10.1016/j.esg.2020.100073) (with Sean Low).
- [Cracking the code. How discursive structures shape climate engineering research governance](#), in: Environmental Politics, October 2019, [doi:10.1080/09644016.2019.1670987](https://doi.org/10.1080/09644016.2019.1670987).
- [Reflecting upon 10 Years of Geoengineering Research: Introduction to the Crutzen + 10 Special Issue](#), in: Earth's Future, 5(3), January 2017, 266-277. [doi:10.1002/2016EF000521](https://doi.org/10.1002/2016EF000521) (with Stefan Schäfer).
- [From 'go-slow' to 'gung-ho'? Comparing Climate Engineering discourses in the UK, the US and Germany](#), in: Global Environmental Politics, 15 (2), May 2015, [doi:10.1162/GLEP_a_00298](https://doi.org/10.1162/GLEP_a_00298) (with Sebastian Harnisch, Stefanie Uther).

Sonderausgaben

- [Carbon dioxide removal: Perspectives from the social sciences and humanities](#) [Special section], in: *Frontiers in Climate* (Ed. with Hanssen, A., Fridahl & Asayama, S.).
- [Crutzen +10: Reflecting upon 10 years of geoengineering research \[Special Issue\]](#), in: *Earth's Future*, 4 (12), May 2016, doi:toc/10.1002/(ISSN)2328-4277.GEOENGIN1 (Ed. with Stefan Schäfer).

Beiträge in Sammelbänden

- [Weltpolitische Unwägbarkeiten: Erkundungen der Zukunft: Foresight-Beiträge 2024](#), (SWP-Studien; Vol. 14), Stiftung Wissenschaft und Politik, Berlin 2024, <https://doi.org/10.18449/2024S14> (Ed. with Lars Brozus).
- Erfahrungsbericht zum Thema Diskursanalyse (Research using discourse analysis methodology), in: Achim Hildebrandt, Sebastian Jäckle, Frieder Wolf & Andreas Heindl (Hg.): *Methodologie, Methoden, Forschungsdesign: Ein Lehrbuch für fortgeschrittene Studierende der Politikwissenschaft*, Springer VS, Wiesbaden 2015.

Gutachten, Stellungnahmen & Berichte

- [Potential of marine carbon dioxide removal \(mCDR\) to increase the ocean carbon sink](#), in: *UNESCO-IOC State of the Ocean Report 2024, 2024*, UNESCO-IOC/SCOR. <https://doi.org/10.25607/4wbg-d349> (with Chris Vivian & Philip W. Boyd).
- [Section 3.4: Knowledge co-production and science-policy engagement](#), in: T. M. Lenton, D.I. Armstrong McKay, S. Loriani, J.F. Abrams, S.J. Lade, J.F. Donges, M. Milkoreit, T. Powell, S.R. Smith, C. Zimm, J.E. Buxton, E. Bailey, L. Laybourn, A. Ghadiali, J.G. Dyke (eds), *The Global Tipping Points Report 2023*, University of Exeter, Exeter, UK, December 2023, (with Manjana Milkoreit, Sean Low, J. David Tabara).
- [A Code of Conduct for Marine Carbon Dioxide Removal Research](#). The Aspen Institute, 2023 (with Fei Chai, Michael Conathan, Sarah Cooley, David Keller, Sonja Klinsky, Javier Lezaun, Phil Renforth, Michelle Scobie & Romany M. Webb).
- "High level review of a wide range of proposed marine geoengineering techniques", in: Philip Boyd and Chris Vivian, eds. Contributors: Miranda Boettcher, Fei Chai, John Cullen, Timo Goeschl, Richard Lampitt, Andrew Lenton, Andreas Oschlies, Greg Rau, Ros Rickaby, Kate Ricke, Rik Wanninkh (IMO/FAO/UNESCO-IOC/UNIDO/WMO/IAEA/UN/UN Environment/ UNDP/ISA Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection), Rep. Stud. GESAMP No. 98., 143 p., 2019.

- Climate Engineering Conference 2017: Critical Global Discussions. Conference Report, in: (IASS Report), Potsdam: Institute for Advanced Sustainability Studies (IASS), Potsdam 2018, doi:10.2312/iass.2018.003 (with Stefan Schäfer, Sean Low & Andy Parker).
- Carbon Dioxide Removal. - IASS Fact Sheet, October 2017, doi:10.2312/iass.2017.017 (with Stefan Schäfer, Matthias Honegger, Sean Low & Mark G Lawrence).
- Solar Radiation Management. - IASS Fact Sheet, October 2017, doi:10.2312/iass.2017.018 (with Andy Parker, Stefan Schäfer, Matthias Honegger, Sean Low & Mark G Lawrence).
- 2nd meeting Academic Working Group on the International Governance of Climate Engineering, Meeting Report, New York, Washington D.C., Forum for Climate Engineering Assessment American University (FCEA), American Univ., 8 p., October 2016 (with Jane Flegal).
- Solar Radiation Management: Foresight for Governance. Project Report. - IASS Working Paper, April 2016, doi:10.2312/iass.2016.007 (with Johannes Gabriel & Sean Low).
- Scenarios on Stratospheric Albedo Modification in 2013, in: DFG SPP 1689 Scenario Workshop Report, Hamburg 22 - 24 March, 2015 (with Johannes Gabriel & Sebastian Harnisch).
- [Climate Engineering Research Symposium Blog. DFG SPP 1689 Current State and Future Perspectives](#), in: Climate Engineering Research Symposium, Berlin 7 - 10 July, 2015.
- Bridging the gaps – Summer Schools on Climate Engineering, in: EASST Review; European Association for the Study of Science & Technology, 32 (1), 2013, (with Nils Matzner).
- [Governing Climate Engineering – A Transdisciplinary Summer School](#), in: Marsilius Kolleg, Ruprecht-Karls-Universität Heidelberg, September 2010 (with Sara Elisa Kettner).