

# Prof. Dr. Felix Creutzig

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• Hot list of world's top 1000 climate scientists ranked 104; listed as Highly Cited Scientist

*\*cyan-framed phrases link to url or pdf files*

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## PROFESSIONAL EXPERIENCE

- since 2021      Scientific Coordinator **Climate Change Center Berlin Brandenburg**  
Speaker **Einstein Climate Change Center Public Policy of Human Settlements**
- since 2017      **Chair of Sustainability Economics of Human Settlements**  
Technical University Berlin
- since 2012      **Mercator Research Institute on Global Commons and Climate Change**  
Head of Working Group: Land Use, Infrastructures and Transport
- 2012/2013      **Princeton Institute for International and Regional Studies**  
Visiting Associate Research Scholar
- 2012/2013      **Dahrendorf Working Group Chair: Infrastructure and Climate Change**
- 2009-2012      **Economics of Climate Change, Technical University Berlin**  
Group leader: Sustainable Human Settlements and Infrastructures
- 2008-2009      **Berkeley Institute of the Environment, University of California, Berkeley**  
Postdoctoral Fellow: Climate Change Mitigation in the Transportation Sector
- 2008            **Energy Foundation China, Beijing.** Consultant

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## EDUCATION

- 2003-2007      **Humboldt Universität zu Berlin, Berlin, Germany**  
PhD in Biophysics (Dr. rer. nat.): *Sufficient Encoding of Dynamical Systems - From the Grasshopper Auditory System to General Principles*
- 2005            **Hebrew University, Jerusalem, Israel**  
Project: *Dynamical Systems and Information Theory*
- 2003-2004      **Studienkolleg zu Berlin, Berlin, Germany**  
Project: *The Role of Actors and their Beliefs in the Protection of Floodplains in Croatia and Austria*
- 2002-2003      **Cambridge University, Cambridge, UK**  
Advanced Mathematics and Theoretical Physics, Part III  
Master of Advanced Study, with merits
- 2002            **Harvard Medical School, Boston, MA, USA**  
Lab work in molecular neuroscience
- 2000-2002      **Albert-Ludwigs-Universität Freiburg, Germany**  
Medical Studies, Physikum, bachelor equivalent (2.0, top 5%)
- 1999-2002      **Albert-Ludwigs-Universität Freiburg, Germany**  
Physics, Vordiplom, bachelor equivalent (1.0, top 1%)
- 1992-1999      **Leibnizschule Hannover, Germany**  
Abitur (1.0): Biology, Mathematics, Politics, Ancient Greek

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## POLICY IMPACT

- 2020 Policy Brief for the German cabinet on COVID-19 and GHG emissions
- 2020 Developing a proposal for an integrated data platform for smart mobility in Israel that will be implemented and funded with about €5million in the pilot phase
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## UNIVERSITY TEACHING

- since 2017 Lecture *Urbanization and Global Environmental Change*  
Technische Universität Berlin
- Seminar *Sustainability Economics of Human Settlements*  
Technische Universität Berlin
- 2014 Lecture *Land Use, Infrastructures and Climate Change*  
Technische Universität Berlin (together with O. Edenhofer)
- 2013 Lecture *Land Use, Infrastructures and Climate Change*  
Technische Universität Berlin (together with O. Edenhofer)
- 2012 Seminar *Behavioral Economics of Mobility*  
Technische Universität Berlin (together with L. Mattauch)
- 2012 Lecture *Land Use, Infrastructures and Climate Change*  
Technische Universität Berlin (together with O. Edenhofer)
- 2011 Seminar *Sustainability Sciences*  
Technische Universität Berlin (together with L. Mattauch)
- 2011 Lecture *The Spatial Economics of Climate Change*  
Technische Universität Berlin (together with O. Edenhofer)
- 2010 Lecture *Geographical Economics and Climate Change*  
Technische Universität Berlin (together with O. Edenhofer)
- 2009 Lecture *Geographical Economics and Climate Change*  
Technische Universität Berlin (together with O. Edenhofer)
- 2005-2006 Seminar *Mathematics for Biologists*  
Humboldt Universität zu Berlin
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## SUMMER SCHOOL CONVENING

- 2013 *Sustainable and Low Carbon Urban Systems* (with Helga Weisz)  
German National Merit Foundation, Leysin, Switzerland
- 2011 *Defining Sustainable Transport* (with Elizabeth Deakin)  
German National Merit Foundation, Überlingen, Germany
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## SUPERVISION AT TECHNISCHE UNIVERSITÄT BERLIN

- PhDs Blanca Fernandez (Making Urban Policies Sustainable, magna cum laude, 2016),  
Christopher Bren d'Amour (Urbanization and food systems, magna cum laude, 2018)  
Steffen Lohrey (ongoing)

	<p>Anjali Ramakrishnan (ongoing)</p> <p>Nikola Milojevic-Dupont (ongoing)</p> <p>Zakia Soomauroo (ongoing)</p> <p>Eva Ayaragarnchanakul (ongoing)</p> <p>Jiawei Hu (ongoing)</p> <p>Felix Wagner (ongoing)</p> <p>Charlotte Liotta (ongoing)</p> <p>Florian Nachtigall (ongoing)</p>
Co-supervised	<p>Li-jing Liu (2018-2019)</p> <p>Linus Mattauch (Rent and Redistribution, summa cum laude, 2015)</p>
External referee	<p>Ramana Gudipudi (Cities and Global Sustainability: Insights from Emission and Ecological Efficiency, magna cum laude, 2017)</p> <p>Paolo Avner (Effectiveness and political economy of climate change mitigation policies at the urban scale, 2020)</p>
Committee chair	<p>Jennifer Garard (Stakeholder Engagement at the Science-Policy Interface)</p> <p>Nils Ohlendorf (The political economy of energy transitions)</p>
Master theses	<ul style="list-style-type: none"> <li>• Hannah Lautenschläger (Mobilität im urbanen Raum – PKW-Nutzung in Abhängigkeit von der Entfernung zwischen Wohnung und städtischer Grünfläche)</li> <li>• Florian Nachtigall (Predicting building age from urban form at large scale)</li> <li>• Jessica Horne (Cost-benefit analysis and quality of life of redesigning streets for people)</li> <li>• Carolin Liesenjohann (Impact of bicycle infrastructure improvements on modal choice)</li> <li>• Nikhil Ravindra (Innovations in Urban Climate Governance for Bengaluru)</li> <li>• Freya Hofmann (Greenhouse gas emission impact of increased grid integration of electric vehicle (EV) charging infrastructure in Germany)</li> <li>• David Kapfer (Restituting Location Gains: A typology of residential land and property taxes in Europe)</li> <li>• Georg Hubmann (Towards a more sustainable Shanghai? A sustainability evaluation of Shanghai’s rapid urbanisation period with a focus on housing development)</li> <li>• Anissa Suatmodi (Online Motorcycle Taxi and Its Influences on Sustainable Lifestyle in Jakarta Metropolitan Area, Indonesia)</li> <li>• Emily Breslin /Transportation System Efficiency in High SOV, High VMT Settings: Push-Pull Policy Framework for Commuter Mobility-as-a-Service in the San Francisco Bay Area)</li> <li>• Mudit Chordia (Automotive gluttony: a roadblock to curbing GHG emissions and reducing resource consumption in the German automotive sector)</li> <li>• Alexander Gosewinckel (Co-benefits and India’s National Solar Mission: A Case for Distributed Solar Implementation)</li> <li>• Milli Keil (Incentivizing ridesharing - a dynamic analysis of transportation choices and their effects on CO2 emissions)</li> </ul>
Postdocs	<p>Aneeque Javaid</p> <p>Mahendra Sethi</p> <p>Leila Niamir</p> <p>Peter Berrill</p> <p>Tiziana Susca (former)</p> <p>Peter Agoston (former)</p> <p>Tim Beringer (former)</p> <p>Sohail Ahmad (former)</p>

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## FUNDING HISTORY

2022-2026	CircEUlar, HEU project, ca. 520.000€
2021-2023	Einstein Climate Change Public Policy and Human Settlements, ca. 600.000€
2021-2023	Climate Change Center Berlin Brandenburg, ca 2 million € <a href="#">Media: Tagesspiegel</a>
2021	AGYA, Concepts for Sustainable Urban Mobility, ca 20.000€
2019-2022	BMBF support for IPCC chapter scientist, ca 220.000€
2018-2019	DAAD P.R.I.M.E Postdoctoral Scholarship, Christopher Bren d'Amour, ca 130.000€
2017-2020	MobiliSta: Mobility Space apart from the Car-Friendly City. Modelling of sustainable infrastructure measures. FONA City of the Future, 290.000€
2014-2018	Postdoctoral Scholarship of the Humboldt Foundation, Sohail Ahmad, ca. 225.000€
2013-2015	PhD Scholarship of the Böll Foundation, Blanca Fernandez, ca. 45.000€
2014-2016	PhD Scholarship of the Stiftung der Deutschen Wirtschaft, Christopher Bren d'Amour, ca. 45.000€
2010-2011	One Planet Mobility, 95.000€ (PI: F. Creutzig)
2009-2010	CITIES (Car Industry, Road Transport and an International Emission Trading Scheme - Policy Options), 107.000€ (PIs: F. Creutzig, O. Edenhofer)

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## COMMITTEES AND SERVICE

2022-	Member of the International Expert group for the Special Policy Study on Promoting Digitalization and Green Technologies for Sustainable Development advising the State Council of China
2022-	Member of the Climate Advisory Board of the German Federal Ministry of Digital and Transport (BMDV) ( <i>Expertenbeirats Klimaschutz in der Mobilität</i> )
2022-	Member of the Climate Advisory Board of Berlin ( <i>Klimaschutzrat</i> ), also <i>advising Berlin's citizen council on climate change</i>
2022-	Member of the Climate Advisory Board of Friedrichshain-Kreuzberg ( <i>Klimabeirat Friedrichshain-Kreuzberg</i> )
2022-	Member of Working Group AI and Sustainability of ZVKI
2018-2021	Coordinating Lead Author of the IPCC 6th Assessment Report, Working Group III, Chapter 5: Demand, services and social aspects of mitigation
2019-	Member of the Scientific Advisory Board of <i>Climate Change AI</i>
2019	Vice-Chair appointment committee of the chair in Urban- and Regional Economics at ISR, TU Berlin
2017	Program Committee Cities and Climate Conference 2017 (Potsdam, 19-21 Sep 2017)
2016-2017	Member of Green Growth Knowledge Platform Sustainable Infrastructure Research Committee

2016	Lead Author of the 2nd State of the Carbon Cycle Report (SOCCR-2) for the US government
since 2015	Member of the Scientific Advisory Board of Klimafakten
2014	Lead Author of the 2nd UCCRN Assessment Report on Climate Change and Cities (Chapter 4 - <i>Equity and Environmental Justice</i> )
2010–2014	Lead Author for the IPCC 5th Assessment Report, Working Group III (Chapter 8 on Transport, Technical Summary, Summary for Policy Maker) Contributing Author to Chapter 12 on Human Settlements, Infrastructures and Spatial Planning and to Chapter 11 on Agriculture, Forestry and Land Use, for which <b>leading the Crosscut on Bioenergy</b> , coordinating 22 authors
2012/2013	Member of the Dahrendorf Academic Board
2010	Lead Analyst to the Knowledge Module 9: Energy Efficient End-use: Transport
2010	Contributing Author to the IPCC Special Report on Renewable Energy Sources and Climate Change Mitigation for Chapter 9 and Chapter 11
2009-2011	Chair of Netzwerk Europa (Alumni Organization of the Studienkolleg zu Berlin)
2005-2009	Founder of Berliner Luft - Sustainable Transport for Berlin. NGO promoting public transportation, cycling and walking modes in Berlin.
since 2004	German Physical Society - DPG

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## JOURNAL SERVICE

**Editorial Board:** Global Sustainability (2017-), PLOS ONE (2018-), Mitigation and Adaptation Strategies for Global Change (2020-), Environmental Data Science (2021-)

**Advisory Board:** Environmental Research Letters (2012-)

**Guest Academic Editor:** PLOS ONE (2017)

### Special Issue Editor:

- *Systematizing and Upscaling Urban Solutions for Climate Change Mitigation* in Environmental Research Letters, completed in 2020. See also references 67, 68 and 93.
- *Near-Term Mitigation Pathways: Technologies and Policies for Energy Efficiency and Low Carbon Energy* in Applied Energy, completed in 2019. See also reference 70.
- *Demand-Side Solutions for Transitioning to Low-Carbon Societies* in Environmental Research Letters, to be completed in 2020
- *Evidence Synthesis for Climate Solutions* in Environmental Research Letters, to be completed in 2020

**Award:** Publons Peer Review Award 2018 (Among top 1% of reviewers in Environment)

**Reviewer:** Science, Nature, Nature Climate Change, Nature Sustainability, Proceedings of the National Academy of Sciences, Environmental Research Letters, Journal of Industrial Ecology, Global Environmental Change, Current Opinion in Environmental Sustainability, Regional Environmental Change, Transport Policy, Energy Policy, Climatic Change, Ecological Economics, Energies, Global Change Biology Bioenergy, Biomass and Bioenergy, Environment and Planning B, International Journal of Sustainable Transportation, Transport Research D, Landscape and Urban Planning, Science of the Total Environment, Environment Development and Sustainability, Renewable and Sustainable Energy Reviews, Sustainable Cities and Society, Umweltpolitik und Umweltrecht, Annals of the American Association of Geographers, Forest, European Research Council, Asian Development Bank, African Academy of Sciences, Climate Policy, PLOS ONE, Research Council of Norway, Oxford Martin School.

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## AWARDS AND SCHOLARSHIPS

2022	Member Academida Europaea
2019	Fellow of the Israel Public Policy Institute on <i>The Governance of Digital Commons</i>
2017	<b>Piers Sellers Prize</b> , recognizing exceptional climate change research
2008–2009	European Recovery Program Scholarship
2006	Stipend for <i>Methods in Computational Neuroscience</i> , MBL, Woods Hole, MA
2004–2006	Boehringer Ingelheim Fonds Scholarship
2003–2004	Studienkolleg zu Berlin, Hertie Foundation, Award and Scholarship
2002–2003	Cambridge European Trust Scholarship
1999–2007	German National Merit Foundation, Award and Scholarship

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## WORKSHOP AND CONFERENCE CONVENING AND ORGANIZATION

2022	Organizing and convening a symposium on Public Policy of Human Settlements at Technical University Berlin
2022	Convening a workshop on Up-scaling co-benefits of sustainable consumption for development at the German Institute for Development and Sustainability
2021	Organizing and convening a workshop on Digitalization in the Anthropocene
2018	Organizing and Convening conference on <i>Systematizing and Upscaling Urban Solutions for Climate Change Mitigation</i> , together with Future Earth and the Global Carbon Project (Sep 13-14, 2018)
2018	Organizing and Convening workshop on <i>Climate policy and Challenges for the Road Transport Sector</i> , together with the German automobile industry (Jan 25, 2018)
2013	Organizing workshop on <i>Transport-sector inclusion into EU ETS: Contrasting the Engineering and the Economics perspective</i>
2013	Organizing and Chairing Lord-Dahrendorf-Workshops on <i>Low-Carbon Infrastructures, Co-Benefits and Land Taxation in European Cities</i> and <i>A European Energiewende as a European Common Good?</i>
2013	Organizing workshop with Thomas Pogge and Ottmar Edenhofer dedicated to <i>Global Public Good Provision</i>
2012	Organizing and Chairing Workshop at Technical University Berlin on <i>Land Rents, Infrastructures and Climate Change</i>
2009	Chairing a side event at COP15, Copenhagen, on <i>Driving home solutions: transport emissions trading and regional adaptation information</i>
2009-2011	Chairman of <i>Netzwerk Europa</i> - Alumni-Organization of the Studienkolleg zu Berlin, convening seminars, projects and alumni-meetings.

As chair of *Netzwerk Europa*, the alumni society of the Studienkolleg zu Berlin, I was engaged in building up a community of more than 300 European students and scholars by organizing regular workshops and alumni meetings from 2009-2011.

2010	Co-Chairing <i>Ambivalence in Providing Humanitarian Aid</i> , Chorin
Jul 2009	Co-Chair, <i>The Future of European Cities in Times of Climate Change</i> , for Netzwerk Europa; funded by the Hertie Foundation; in Berlin.
Oct 2006	Co-Chairing and Organizing <i>Power &amp; Rationality: The Future of Energy Supply</i> , funded by the German National Merit Foundation and the Böll Foundation; in Tübingen.
May 2001	Co-Chairing and Organizing, Alumni Meeting of Members of the Schülerakademie - 300 people; 28 courses; in Kirchheim.

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## LANGUAGES

Native	German
Fluent	English, French
Basic	Hebrew, Italian, Spanish
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## PEER-REVIEWED PUBLICATIONS (H-INDEX GOOGLE SCHOLAR: 67)

*\*read abstract or upload PDFs by click on title*

127. *Fuel crisis: Slash demand in three sectors to protect economies and climate.*  
**F. Creutzig** (2022) Nature
126. *Digitalization and the Anthropocene*  
**F. Creutzig**, D. Acemoglu, X. Bai, P. N. Edwards, M. J. Hintz, L. H. Kaack, S. Kilkis, S. Kunkel, A. Luers, N. Milojevic-Dupont, D. Rejeski, J. Renn, D. Rolnick, C. Rosol, D. Russ, T. Turnbull, E. Verdolini, F. Wagner, C. Wilson, A. Zekar, M. Zumwald (2022) Annual Review of Environment and Resources, 47
125. *Leaders or laggards in climate action? Assessing GHG trends and mitigation targets of global megacities*  
M. Sethi, **F. Creutzig** (2023) PLOS Clim 2(1): e0000113. <https://doi.org/10.1371/journal.pclm.0000113>.
124. *Using explainable machine learning to understand how urban form shapes sustainable mobility*  
F. Wagner, N. Milojevic-Dupont, L. Franken, A. Zekar, B. Thies, N. Koch, **F. Creutzig** (2022) Transportation Research Part D: Transport and Environment, 111, 103442.  
**Media: Deutschlandfunk – IDW**
123. *Aligning artificial intelligence with climate change mitigation*  
L. H. Kaack, P. L. Donti, E. Strubell, G. Kamiya, **F. Creutzig**, D. Rolnick (2022) Nature Climate Change 1-10
122. *Shifting urban mobility patterns due to COVID-19: comparative analysis of implemented urban policies and travel behavior changes with an assessment of overall GHG emissions implications*  
**F. Creutzig**, S. Lohrey, M. V. Franza (2022) Environmental Research: Infrastructure and Sustainability.
121. *Pandemic, War, and Global Energy Transitions*  
B. Zakeri, K. Paulavets, L. Barreto-Gomez, L. G. Echeverri, S. Pachauri, B. Boza-Kiss, C. Zimm, J. Rogelj, **F. Creutzig**, D. Ürge-Vorsatz, D. G. Victor (2022) Energies, 15(17), p.6114.

120. *Demand-side solutions to climate change mitigation consistent with high levels of wellbeing*  
**F. Creutzig**, L. Niamir, X. Bai, J. Cullen, J. Diaz-Jose, M. Figueroa, A. Grubler, W. Lamb, A. Leip, E. Masanet, E. Mata, L. Mattauch, J. Minx, S. Mirasgedis, Y. Mulugetta, S. Nugroho, M. Pathak, P. Perkins, J. Roy, Y. Saheb, L. Steg, J. Steinberger, D. Urge-Vorsatz (2022) *Nature Climate Change*
119. *Tackling Climate Change with Machine Learning*  
D. Rolnick, P. L. Donti, L. H. Kaack, K. Kochanski, A. Lacoste, K. Sankaran, A. Slavin Ross, N. Milojevic-Dupont, N. Jaques, A. Waldman-Brown, A. Luccioni, T. Maharaj, E. D. Sherwin, S.K. Mukkavilli, K. P. Kording, C. Gomes, A. Y. Ng, D. Hassabis, J. C. Platt **F. Creutzig**, J. Chayes, Y. Bengio (2022) *ACM Computing Surveys (CSUR)*, 55(2), 1-96.  
Media: [unite.ai](#) – [Horizon](#)
118. *Choosing a Mode in Bangkok: Room for Shared Mobility?*  
E. Ayaragarnchanakul, **F. Creutzig** (2022) *Sustainability*, 14(15), 9127
117. *Bangkok's locked-in traffic jam: Price congestion or regulate parking?*  
E. Ayaragarnchanakul, **F. Creutzig** (2022) *Case Studies on Transport Policy* 10.1 (2022): 365-378.  
Media: [Bangkok Post](#)
116. *A systematic review on shared mobility in China*  
J. Hu, **F. Creutzig** (2022) *International Journal of Sustainable Transportation*, 1-16
115. *Understanding environmental trade-offs and resource demand of direct air capture technologies through comparative life-cycle assessment*  
K. Madhu, S. Pauliuk, S. Dhathri, **F. Creutzig** (2021) *Nature Energy*, 1-10  
Media: [Deutschlandfunk MDR Der Standard](#)
114. *The role of high-socioeconomic-status people in locking in or rapidly reducing energy-driven greenhouse gas emissions*  
K.S. Nielsen, K.A. Nicholas, **F. Creutzig**, T. Dietz, P.C. Stern (2021) *Nature Energy* 6 (11), 1011-1016  
Media: [Berliner Zeitung](#) [BBC](#) [Der Spiegel](#)
113. *A multi-country meta-analysis on the role of behavioural change in reducing energy consumption and CO2 emissions in residential buildings*  
T.M. Khanna, G. Baiocchi, M. Callaghan, **F. Creutzig**, H. Guias, N.R. Haddaway, L. Hirth, A. Javaid, N. Koch, S. Laukemper, A. Loeschel, M. del Mar Zamora Dominguez, J.C. Minx (2021) *Nature Energy*, pp.1-8.
112. *Opinion: We need biosphere stewardship that protects carbon sinks and builds resilience*  
J. Rockstrom, T. Beringer, D. Hole, B. Griscom, M.B. Mascia, C. Folke, **F. Creutzig** (2021) *Proceedings of the National Academy of Sciences* 118 (38)
111. *From smart city to digital urban commons: Institutional considerations for governing shared mobility data*  
**F. Creutzig** (2021) *Environmental Research: Infrastructure and Sustainability*
110. *Open government geospatial data on buildings for planning sustainable and resilient cities*  
F. Biljecki, L. Z. X. Chew, N. Milojevic-Dupont, **F. Creutzig** (2021) arXiv preprint arXiv:2107.04023
109. *Coal transitions—part 1: a systematic map and review of case study learnings from regional, national, and local coal phase-out experiences*  
F. Diluio, P. Walk, N. Manych, N. Cerutti, V. Chipiga, A. Workman, C. Ayas, R. Y. Cui, D. Cui, K. Song, L. A. Banisch, N. Moretti, M. W. Callaghan, L. Clarke, **F. Creutzig**, J. Hilaire, F. Jotzo, M. Kalkuhl, W. F. Lamb, A. Loschel, F. Muller-Hansen, G. F. Nemet, P.-Y. Oei, B. K. Sovacool, J. C. Steckel, S. Thomas, J. Wiseman, J. C. Minx (2021) *Environmental Research Letters* 16 (11), 113003E



108. *Combining economic recovery with climate change mitigation: A global evaluation of financial instruments*  
L.J. Liu, Y.F. Yao, Q.M. Liang, X.Y. Qian, C.L. Xu, S.Y. Wei, **F. Creutzig**, Y.M. Wei (2021) *Economic Analysis and Policy* 72, 438-453
107. *Electricity end-use and construction activity are key leverage points for co-controlling greenhouse gases and local pollution in China*  
L.J. Liu, Q.M. Liang, **F. Creutzig**, N. Cheng, L. C. Liu (2021) *Climatic Change* 167 (1), 1-22
106. *COVID-19 recovery and the global urban poor*  
M. Sethi, **F. Creutzig** (2021) *npj Urban Sustainability*, 1(1), 1-5.
105. *Leverage points for accelerating adoption of shared electric cars: Perceived benefits and environmental impact of NEVs*  
Hu, J. W., Javaid, A., Creutzig, F. (2021). *Energy Policy*, 155, 112349.
104. *Considering sustainability thresholds for BECCS in IPCC and biodiversity assessments*  
**F. Creutzig**, K.H. Erb, H. Haberl, C. Hof, C. Hunsberger, S. Roe (2021) *GCB Bioenergy* 13 (4), 510-515
103. *Status consciousness in energy consumption decisions: A systematic review*  
A. Ramakrishnan, **F. Creutzig** (2021) *Environmental Research Letters*
102. *COVID-19 and pathways to low-carbon air transport until 2050*  
S. Gossling, A. Humpe, F. Fichert, **F. Creutzig** (2021) *Environmental Research Letters*  
**Media: Der Spiegel Wissenschaft.de Energate**
101. *COVID-19-induced low power demand and market forces starkly reduce CO<sub>2</sub> emissions*  
C. Bertram, G. Luderer, **F. Creutzig**, N. Bauer, F. Ueckerdt, A. Malik, O. Edenhofer (2021) *Nature Climate Change* 1-4
100. *Search strategies for: Climate action for health and wellbeing in cities: a protocol for the systematic development of a database of peer-reviewed studies using machine learning*  
K., M. Callaghan, J. Minx, **F. Creutzig**, C. Turcu, E. Hutchinson, J. Milner, M. Crane, A. Haines, M. Davies, P. Wilkinson (2021) [Data Collection]. London School of Hygiene & Tropical Medicine, London, United Kingdom. <https://doi.org/10.17037/DATA.00002094>.
99. *Reviewing the scope and thematic focus of 100,000 publications on energy consumption, services and social aspects of climate change: A big data approach to demand-side mitigation*  
**F. Creutzig**, M. W. Callaghan, A. Ramakrishnan, A. Javaid, L. Niamir, F. Müller-Hansen, J. C. Minx, B. K. Sovacool, Z. Afroz, M. Andor, M. Antal, N. Das, J. Díaz-José, F. C. Doebbe, M. Figueroa, A. Gouldson, H. Haberl, A. Hook, D. Ivanova, W. F. Lamb, N. Maizi, É. Mata, K. Steensen Nielsen, C. D. Onyige, L. A. Reisch, J. Roy, P. F. D. Scheelbeek, M. Sethi, S. Some, S. Sorrell, M. Tessier, T. P. Urmee, D. Virág, C. Wang, D. Wiedenhofer, C. Wilson (2020) *Environmental Research Letters* (2020)
98. *Lifestyle, psychological, socioeconomic and environmental factors and their impact on hypertension during the coronavirus disease 2019 pandemic.*  
R. Kreutz, P. Dobrowolski, A. Prejbisz, EAE Algharably, G. Biló, **F. Creutzig**, G. Grassi, V. Kotsis, D. Lovic, E. Lurbe, P. A. Modesti, M. Pappaccogli, G. Parati, A. Persu, J. Polonia, M. Rajzer, P. de Timary, T. Weber, B. Weisser, K. Tsioufis, G. Mancia, A. Januszewicz (2020) *Journal of hypertension* (2020) DOI: 10.1097/hjh.0000000000002770
97. *Learning from urban form to predict building heights*  
N. Milojevic-Dupont, N. Hans, L. H. Kaack, M. Zumwald, F. Andrieux, D. de Barros Soares, S. Lohrey, P.-P. Pichler, **F. Creutzig** (2020) *PLOS ONE* 15 (2020): e0242010.
96. *Limits to Liberalism: Considerations for the Anthropocene*  
**F. Creutzig** (2020) *Ecological Economics* 177 (2020): 106763.

95. *Engage, don't preach: Active learning triggers climate action*  
**F. Creutzig**, F. Kapmeier (2020) *Energy Research & Social Science* 70: 101779.
94. *Keeping up with the Patels: Conspicuous consumption drives the adoption of cars and appliances in India*  
A. Ramakrishnan, M. Kalkuhl, S. Ahmad, **F. Creutzig** (2020) *Energy Research & Social Science* 70: 101742.
93. *Discourses of climate delay*  
W. Lamb, G. Mattioli, S. Levi, J. T. Roberts, S. Capstick, **F. Creutzig**, J. C. Minx, F. Müller-Hansen, T. Culhane, J. K. Steinberger (2020) *Global Sustainability* 3
92. *Systematizing and upscaling urban climate change mitigation*  
**F. Creutzig**, X. Bai, R. Khosla, V. Viguie, Y. Yamagata (2020) *Environmental Research Letters*  
[Editorial for focus issue - see also ref 67 & 68](#)
91. *Machine learning for geographically differentiated climate change mitigation in urban areas*  
N. Milojevic-Dupont, **F. Creutzig** (2020) *Sustainable Cities and Society*, 102526.
90. *Urbanization, processed foods, and eating out in India*  
C. Bren d'Amour, B. Pandey, M. Reba, S. Ahmad, **F. Creutzig**, K. C. Seto (2020) *Global Food Security* 25: 100361.
89. *Adjust urban and rural road pricing for fair mobility*  
**F. Creutzig**, A. Javaid, N. Koch, B. Knopf, G. Mattioli, O. Edenhofer (2020) *Nature Climate Change*
88. *Fair street space allocation: ethical principles and empirical insights*  
**F. Creutzig**, A. Javaid, Z. Soomaroo, S. Lohrey, N. Milojevic-Dupont, A. Ramakrishnan, and others (2020) *Transport Reviews*  
[Media: Berliner Morgenpost, Tagesspiegel](#)

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### Systematic Reviews

87. *Determinants of low-carbon transport mode adoption: systematic review of reviews*  
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**As Contributing Author:**

8. Chapter 7: Health, Wellbeing, and the Changing Structure of Communities) G. Cissé, R. McLeman, H. Adams, P. Aldunce, K. Bowen, D. Campbell-Lendrum, S. Clayton, K.L. Ebi, J. Hess, C. Huang, Q. Liu, G. McGregor, J. Semenza, and M.C. Tirado, 2022. In: Climate Change 2022: Impacts, Adaptation, and Vulnerability. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [H.-O. Pörtner, D.C. Roberts, M. Tignor, E.S. Poloczanska, K. Mintenbeck, A. Alegría, M. Craig, S. Langsdorf, S. Lössche, V. Möller, A. Okem, B. Rama (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA, pp. 1041-1170, doi:10.1017/9781009325844.009.
7. Chapter 8: Urban systems and other settlements) S. Lwasa, K. C. Seto, X. Bai, H. Blanco, S. Gurney, S. Kilkis, O. Lucon, J. Murakami, J. Pan, A. Sharifi A, Y Yamagata (2022) In IPCC, 2022: Climate Change 2022: Mitigation of Climate Change. Contribution of Working Group III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [P.R. Shukla, J. Skea, R. Slade, A. Al Khouradajie, R. van Diemen, D. McCollum, M. Pathak, S. Some, P. Vyas, R. Fradera, M. Belkacemi, A. Hasija, G. Lisboa, S. Luz, J. Malley, (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA. doi: 10.1017/9781009157926.010

6. Chapter 10: Transport) P. Jaramillo, S. Kahn Ribeiro, P. Newman, S. Dhar, O.E. Diemuodeke, T. Kajino, D.S. Lee, S.B. Nugroho, X. Ou, A. Hammer Strømman, J. Whitehead (2022) In IPCC, 2022: Climate Change 2022: Mitigation of Climate Change. Contribution of Working Group III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [P.R. Shukla, J. Skea, R. Slade, A. Al Khouradajie, R. van Diemen, D. McCollum, M. Pathak, S. Some, P. Vyas, R. Fradera, M. Belkacemi, A. Hasija, G. Lisboa, S. Luz, J. Malley, (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA. doi: 10.1017/9781009157926.010
5. Chapter 16: Innovation, technology development and transfer) G. Blanco, H. de Coninck, L. Agbemabiese, E. H. Mbaye Diagne, L. Diaz Anadon, Y. S. Lim, W.A. Pengue, A.D. Sagar, T. Sugiyama, K. Tanaka, E. Verdolini, J. Witajewski-Baltvilks (2022) In IPCC, 2022: Climate Change 2022: Mitigation of Climate Change. Contribution of Working Group III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [P.R. Shukla, J. Skea, R. Slade, A. Al Khouradajie, R. van Diemen, D. McCollum, M. Pathak, S. Some, P. Vyas, R. Fradera, M. Belkacemi, A. Hasija, G. Lisboa, S. Luz, J. Malley, (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA. doi: 10.1017/9781009157926.010
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1. *Sufficient Encoding of Dynamical Systems - From the Grasshopper Auditory System to General Principles* PhD Thesis, Humboldt-Universität zu Berlin, 2008

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23. *Zeit für einen Klimarat*  
**F. Creutzig** (2021) In *Demokratieverstärker* (eds. Elisabeth Niejahr, Grzegorz Nocko), Campus Verlag, Frankfurt am Main
22. *Transformations within reach: Pathways to a sustainable and resilient world-Rethinking energy solutions: Energy demand and decentralized solutions*  
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21. *Report on Second Consultative Science Platform. Bouncing Forward Sustainably: Pathways to a post-COVID World. Sustainable Energy.*  
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20. *Energy Demand: From Individual Behavioral Changes to Climate Change Mitigation*  
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19. *Antworten auf zentrale Fragen zur Einführung von CO2 Preisen*  
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18. *Unbequeme, aber notwendige Entscheidungen - Dichtere Bebauung und höhere Treibstoffpreise als Wege aus der Klimakrise*  
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17. *Book Review – Beyond GDP: Measuring Welfare and Assessing Sustainability, Marc Fleurbaey, Didier Blanchet. Oxford University Press Inc. (2013)*  
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14. *Nachhaltige Infrastrukturen - kann Europa von Israel lernen?*  
**F. Creutzig**, C. Keller, M. Braunschweig, L. Hirth, D. Stoyanova, J. Strelnikova, K. Wiegandt, C. Grosse Wiesmann. Projekt Europa 2010/11, Studienkolleg zu Berlin
13. *Der Weg zu einem nachhaltigen städtischen Transportwesen*  
R. Mühlhoff, **F. Creutzig** (2011) pp.105-109 In *Urban Futures 2050 - Szenarien und Lösungen für das Jahrhundert der Städte*, Heinrich-Böll-Stiftung, Berlin, ISBN 978-3-86928-057-8.
12. *Developing a pragmatic approach to assess urban metabolism in Europe.*  
J. Minx, **F. Creutzig**, V. Medinger, T. Ziegler, A. Owen, G. Baiocchi (2010). Report to the European Environment Agency, Stockholm Environment Institute and Technische Universität Berlin.
11. *CITIES: Car industry, road transport and an international emission trading scheme - policy options.*  
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10. *Getting the carbon out of transportation fuels*  
**F. Creutzig**, D.M. Kammen. In H. J. Schellnhuber, M. Molina, N. Stern, V. Huber and S. Kadner (Eds.), *Global Sustainability - A Nobel Cause*. Cambridge, UK: Cambridge University Press, ISBN-13: 9780521769341, 2010
9. *Beyond the Fossil City: Towards low Carbon Transport and Green Growth*  
D. Bongardt, M. Breithaupt, **F. Creutzig**, Report commissioned by the GTZ for COP15, Copenhagen, 2009. Final version presented at the Fifth Regional EST Forum, 23 - 25 August 2010, Bangkok, Thailand.
8. *Travel Demand Management in Beijing: Opportunities for Green, High-Tech, Equitable Transport*  
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7. *Ökonomische Anreize und kollektives Handeln in Zeiten des Klimawandels*  
**F. Creutzig**. In: *Energie, Macht, Vernunft: Der umfassende Blick auf die Energiewende*, Shaker, ISBN 978-3-86858-070-9, 2008
6. *Über die Legitimation einer Machtelite*  
**F. Creutzig**, P. Fahr. In: *Energie, Macht, Vernunft: Der umfassende Blick auf die Energiewende*, Shaker, ISBN 978-3-86858-070-9, 2008
5. *Macht - ein philosophischer Zugang*  
**F. Creutzig**, E.-M. Jung. In: *Energie, Macht, Vernunft: Der umfassende Blick auf die Energiewende*, Shaker, ISBN 978-3-86858-070-9, 2008
4. *Globale Treibhausgassteuer und Emissionshandel: Eine Frage des Instruments oder der Ausgestaltung?*  
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3. *Urbanes Stadtklima: Ohne Auto, dafür mit Zukunft*  
**F. Creutzig**, B. Knierim. In: *Klima der Gerechtigkeit*, VSA-Verlag, ISBN 978-3-89965-243-7, 2007
2. *Institutionelles Setting von Konflikten beim Schutz von ökologisch wertvollen Feuchtgebieten in Kroatien und Österreich*  
**F. Creutzig**, J. Janssen, K. Palamarz, N. Szoeko. In: *Projekt Junges Europa*, Wehrhahn, Hannover, ISBN 3-86525-018-1, 2005.
1. *From predictive coding to percept - a computational approach*  
**F. Creutzig**. In: *Geist und Wissenschaft. Interdisziplinäre Perspektiven* (Hrsg. Ansgar Lyssy), PeterLang-Verlag, ISBN 978-3-631-58256-5, 2009

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## MAGAZINE ARTICLES, BLOGS, INTERVIEWS

for list of media appearances related to publications see list above

2022	<i>Zeit Die Bevölkerung ist oft weiter als die Politik</i>
2022	Tagesspiegel <i>Streitgespräch zur A100 in Berlin: „Sobald Infrastruktur für Autos gebaut wird, stirbt das Leben in der Stadt“</i>
2022	Deutschlandfunk <i>„Warmduschen für 20 Prozent des Energieverbrauchs im Haushalt verantwortlich“</i>
2022	SWR <i>Wie konkreter Klimaschutz unsere Lebensqualität erhöhen kann</i>
2022	Zeit <i>Bäume verheizen, aber den Wald retten wollen</i>

2022	Tagesspiegel <i>Klimapodcast Gradmesser: Vom Glück sich zu ändern</i>
2022	FAZ <i>Der Weltklimarat sieht die Politik am Scheideweg</i>
2022	Berliner Zeitung <i>IPCC-Leitautor: Wie dringend der Klimaschutz soziale Gerechtigkeit braucht</i>
2022	NDR <i>Wie Kopenhagen mit Fernwärme das Klima rettet</i>
2022	Tagesspiegel <i>Weltklimarat sieht großes Potenzial auf Nachfrageseite</i>
2021	Tagesspiegel <i>Porträt Felix Creutzig</i>
2021	Deutschlandfunk: <i>Klimaschutz und Verzicht Was wir aus der Coronakrise lernen können</i>
2021	Tagesspiegel <i>Verbrennungsmotor in der Sackgasse</i>
2021	Tagesspiegel <i>Forscher kritisieren Berechnung zu höheren Emissionen aus der E-Mobilität</i>
2021	Deutschlandfunk: <i>Biden meint den Klimaschutz sehr ernst</i>
2021	Watson: <i>Warum ausgerechnet Grossbritannien Vorreiter in der Klimapolitik ist</i>
2020	Tagesspiegel: <i>Forscher simulieren Maximum für Bioenergie mit Kohlendioxid-Speicherung</i>
2018	Sueddeutsche Zeitung: <i>Brennende Wälder</i>
2018	web.de: <i>Muss der Sprit teurer werden?</i>
2017	Carbon Brief: <i>Why solar keeps being underestimated</i>
2017	The Guardian: <i>EU must not burn the world's forests for 'renewable' energy</i>
2017	Zeit online: <i>Deutschland, das gefährliche Vorbild, zusammen mit Jan Steckel</i>
2017	web.de: <i>Wohnraumangel in Großstädten: Wird die Entwicklung noch zunehmen?</i>
2013	Cicero: <i>Energiewende - Die Große Chance in der Eurokrise</i>
2013	Kultura Liberalna: <i>Cities: Pragmatic Action to Deal with Climate Change</i>
since 2009	Environmental Research Web: Blogs, <a href="#">a selection of them is listed on this website</a>
2011	Europe & Me: <i>On the European debt crisis</i>
2009	Chinadialogue: <i>Fixing Beijing's transport nightmare</i>
2008	Tagesblick: <i>Zeit Voranzuschreiten</i>
2007	TIP Berlin: <i>Autofrei ist sexy</i>

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#### INVITED TALKS (SELECTION)

2022	AI for Sustainability, University of Michigan, Title: <i>Digitalization, AI and the Anthropocene – Past, Present, Future</i>
2022	Sustainable Built Environment, Title: <i>Towards a Public Policy of Human Settlements</i>
2022	Grüne Berlin, Title: <i>Klimamonitoring: essentielles Instrument für städtische Klimagovernance</i>
2022	Deutsch-Japanisches Umwelt- und Energiedialogforum, Title: <i>Vision emission free city – rethinking mobility</i>

- 2022 Sommerakademie Demokratie der Begabtenförderungswerke, Title: *Klimawandel, Digitalisierung und die Zukunft der Demokratie*
- 2022 Berlin Sommeruniversität, Title: *Klimaschutz: Unsere gemeinsame Verantwortung*
- 2022 Climate Change and AI Summer School, Title: *IPCC: insight on climate solutions and the role of AI*
- 2022 Advancing the Global Energy Transition, Princeton, Title: *Cities matter: Nexus of climate solutions and the good life*
- 2022 Up-scaling co-benefits of sustainable consumption for development at German Institute for Development and Sustainability, Title: *Consumption and demand-side management for climate change mitigation*
- 2022 Einstein Center Climate Change , Title: *Towards a Public Policy of Human Settlements*
- 2022 Chalmers (Virtual) , Title: *Mitigation of Climate Change: Demand Side Solutions*
- 2022 Bundeskanzleramt , Title: *Working Group III Climate Change Mitigation*
- 2022 Centre for Research into Energy Demand Solutions (Virtual) , Title: *Mitigation of Climate Change: Demand Side Solutions*
- 2022 Input for Berlin's Citizens' Climate Council, Title: *Klimaschutz in Berlin: E-Mobilität und Sammeltaxis*
- 2022 Handelsblatt Jahrestagung Stadtwerke, Title: *Mitigation of Climate Change: Wo stehen wir?*
- 2022 German Institute for Development and Sustainability, Bonn, Title: *How can low-carbon behavioural change be scaled up and what are the wider benefits of adopting low-carbon lifestyles?*
- 2022 DNR, Title: *Mitigation of Climate Change: Demand Side Solutions*
- 2022 AI Innovations 2022 Summit, Title: *Digitalization, AI and the Anthropocene – Past, Present, Future*
- 2022 Centre for Climate Change and Social Transformation, Cardiff, Title: *Mitigation of Climate Change: Demand Side Solutions*
- 2022 Behaven, Title: *Mitigation of Climate Change: Demand Side Solutions*
- 2022 Austria Ministerial Conference on IPCC report, Title: *Mitigation of Climate Change: Demand Side Solutions*
- 2022 Mensa in Deutschland e.V., Title: *Demand Side Climate Solutions*
- 2022 Tsinghua University (virtual), Title: *Digitalization, AI and the Anthropocene Urban Solutions*
- 2022 Queens College, Cambridge University, Title: *Demand Side Climate Solutions*
- 2022 Heinrich-Böll-Foundation (virtual), Title: *Digitalization, AI and the Anthropocene – Past, Present, Future*
- 2022 Shaping the Future, Max Planck Society (virtual), Title: *Digitalisierung, KI und das Anthropozän – Vergangenheit, Gegenwart, Zukunft*
- 2022 Evidence to Action: Achieving the Net-Zero 2050 Targets, Princeton (virtual), Title: *Demand Side Climate Solutions*

- 2021 COSIMENA, Cairo (virtual), Title: *Integrated climate and sustainability solutions in urban transport*
- 2021 Science Forum, Moscow (hybrid), Title: *The three revolutions in car mobility and implications for carbon neutrality in Berlin and Moscow*
- 2021 **Verband Kommunalen Unternehmen**, Berlin (virtual), Title: *Klimaschutz in Städten und die Rolle der Digitalisierung*
- 2021 Centre Marc Bloch, Berlin, Title: *Demand side solutions to climate change mitigation*
- 2021 **Urania**, Berlin, Title: *Berlin schützt Klima - 2030*
- 2021 Berlin Partner, Berlin, Title: *Klimaneutralität: Implikationen für die Berliner Wirtschaft*
- 2021 Berlin Science Week, Berlin, Title: *Vorstellung des neuen Einstein Centers Climate Change*
- 2021 Technische Hochschule Köln, Title: *Smart Mobility: is it sustainable?*
- 2021 GIZ, Title: *Digitalization in urban mobility: some considerations and directions*
- 2021 London School of Economics, London (virtual) Title: *A few remarks on the interplay between resources and urban form*
- 2020 **Sciences Notes**, Heidelberg, Title: *Städtische Lösungen für das Anthropozän*
- 2020 **Keynote at Applied Machine Learning Days**, Lausanne, Title: *Urban Solutions for the Anthropocene*
- 2019 **Keynote at NeurIPS**, Vancouver, Canada, Presentation Title: *Leveraging digitalization for urban solutions in the Anthropocene*
- 2019 COP25, Madrid Presentation Title: *The role of digitalization in desirable pathways of the Anthropocene*
- 2019 Ringvorlesung Technical University Berlin, Title: *Urbanisation and Global Environmental Change*
- 2019 IEA Workshop on Bioenergy, Berlin Title: *The (non-)rationale of bioenergy for climate change mitigation*
- 2019 Zukunftsbrücke, Title: *Prosperity for all: Individual Wellbeing and Planetary Stability*
- 2019 Oberbürgermeister Potsdam, Potsdam, Title: *Infrastrukturinvestitionen, Verhaltensänderung und soziale Normen: koordinierte Massnahmen für die Förderungen der umweltfreundlichen Verkehrsmittel*
- 2019 Heibrids, Berlin Title: *Machine learning for low-carbon urban planning*
- 2019 Nachhaltig Lecture Series, Halle, Title: *Nachfrage, Konsum und Klimaschutz*
- 2018 **Keynote at European Congress of Conservation Biology, Jyväskylä, Finland**, Presentation Title: *The Paris agreement promises? How to stay below 1.5 - 2 C warming, and what does it mean in the context of sinks and sources/Global bioenergy potential.*
- 2018 IPCC Cities conference in Edmonton, Presentation Title: *Upscaling urban data science for global climate solutions*
- 2018 IPCC Cities conference in Edmonton, Presentation Title: *Geometric design of cities balances trade-off between climate mitigation and urban heat island*

- 2018 MBA Sustainable Mobility Management, Presentation Title: *Sustainability Transformations in Urban Transport*
- 2017 Summer School Energy and the Environment, Presentation Title: *Making Urban Transport Solutions Effective for Global Climate Mitigation*
- 2017 Leading the way to a new European bioeconomy strategy, European Forest Institute and German Ministry for Agriculture - Berlin, Presentation Title: *The Urban Contribution to a Nascent Bioeconomy*
- 2017 **Piers Sellers Price Lecture** - Leeds, Presentation Title: *Urban climate change solutions at global scale*
- 2017 FONA Agendakonferenz: Wege zur Mobilitätswende. Forschung und Innovation für eine nachhaltige urbane Mobilität - Berlin, Presentation Title: *Mobility and Climate Change Mitigation - A Global Perspective*
- 2016 Class on Climate Change Governance, University of Wisconsin - Madison, Presentation Title: *Demand vs Supply Side: Design and Rational of IPCC Reports*
- 2016 Weston Round Table, University of Wisconsin - Madison, Presentation Title: *Urbanization and Global Environmental Change*
- 2016 University of Wisconsin Law School, University of Wisconsin - Madison, Presentation Title: *The rationality of climate change legislation in EU law*
- 2016 Summer School Energy and the Environment, Presentation Title: *Global Challenges and Trends for Urban Transportation*
- 2014 Chair for Traffic Engineering (Kai Nagel), Technical University Berlin, Presentation Title: *Sustainable urban form: global observations and analytical modeling*
- 2014 Forschungsstelle Nachhaltige Umweltentwicklung (Hermann Held), Hamburg, Presentation Title: *Ambiguity and optimal learning in climate mitigation scenarios*
- 2014 Climate Change and Transport, Karlsruhe, Key Note: *Divergent Views on Low-Carbon Transportation*
- 2014 Yale School of Forestry & and Environmental Studies, Presentation Title: *Industrial Sustainability at the Nexus between Land Use and Energy*
- 2014 Climate Foundation Donor Deep Dive, Lisbon, Presentation Title: *Urban transport as a hotspot for climate mitigation*
- 2014 ITB (Internationale Tourismus-Börse), Berlin, Presentation Title: *Mitigation GHG emissions in tourism and aviation*
- 2014 European Climate Foundation, Berlin, Presentation Title: *Key insights on mitigating climate change in the transport sector*
- 2013 Deutscher Geographentag, Passau, Presentation Title: *ASIF: Updating Decomposition Options of Low-Carbon Futures in Land Transport*
- 2013 Summer School of the German National Merit Foundation, Leysin, Key note: *Man City Earth*
- 2013 Princeton Institute for International and Regional Studies, Presentation Title: *An ecological rationality approach towards climate change mitigation*
- 2013 University of Louisville, Kentucky, Presentation Title: *Narratives of Low-Carbon Futures in Land Transport*



- 2012 Potsdam Institute on Climate Impact Research, Presentation Title: *Cities, transport costs and resulting GHG emissions*
- 2012 Princeton Institute for International and Regional Studies, Presentation Title: *Hitting the roof of analytical framework - Epistemological Uncertainty in Bioenergy Assessments*
- 2012 World Bank, Transport - Turning the Right Corner, Presentation Title: *Narratives of low-carbon futures in land transport*
- 2012 VDA (German Association of the Automotive Industry), Presentation Title: *Climate policies in transport revisited*
- 2012 Harvard Project for Asian and International Relations, Briefing of the European Delegation, Presentation Title: *Mobility and Sustainability: An Asian-European Comparison*
- 2012 Global Sustainability Summer School, Potsdam Institute for Advanced Sustainability Studies and Potsdam Institute on Climate Impacts, Presentation Title: *Fishbanks: Seeking to manage the global commons*
- 2012 Potsdam Institute for Advanced Sustainability Studies, What population decline means for public service provision in rural regions, Presentation Title: *A Climate Economic Perspective: Rural Mobility and GHG Emissions*
- 2012 National Research Council, Needs and Research Requirements for Land-Change Modeling, Chapel Hill, Presentation Title: *Bioenergy and Land Use*
- 2012 Leopoldina - German National Academy of Sciences, Briefing Meeting on Bioenergy, Presentation Title: *Comparing Assessments on Bioenergy*
- 2012 Bundesumweltministerium, Presentation Title: *Policies for Decarbonizing the Transport Sector*
- 2012 Yale School of Forestry & and Environmental Studies, Presentation Title: *Evaluating bioenergy futures*
- 2012 GIZ (Deutsche Gesellschaft für Internationale Zusammenarbeit), Presentation Title: *Low-carbon transport scenarios for European cities*
- 2011 North American Regional Science Council, 58th Annual North American Meeting, Miami, Presentation Title: *Fuel prices, urban form and optimal public transit*
- 2011 Carlo Schmid Programm, Annual Alumni Meeting, Presentation Title: *Governing the Global and Local Commons*
- 2011 attac Oldenburg, Presentation Title: *The Economics of Car-Free Cities*
- 2011 Summer School of the German National Merit Foundation, Salem, Key note: *Bioenergy and Sustainability: The Limits of Disciplinary Research*
- 2010 Deutsche Bahn, Presentation Title: *Integrating the Transport Sector into the EU Emission Trading Scheme*
- 2010 California State Capitol, Sacramento, Presentation Title: *CITIES: Car Industry, Road Transport and an International Emission trading Scheme - policy options*
- 2010 innoz, Presentation Title: *Evaluating the Climate Mitigation Benefits of a German Road Charging Policy*
- 2010 Umweltbundesamt, Presentation Title: *A Review: Options for Decarbonizing the Transport Sector*

- 2009 COP15, Copenhagen, on *Bridging the gap Pathways for transport in the post 2012 process*
- 2009 Potsdam Institute of Climate Impact Research, Presentation title: *Synergies in Urban Transport Policies*
- 2009 Energy and Resources Group, Berkeley, Presentation title: *Co-Benefits of Transport Demand Management Measures: A Beijing Case Study*
- 2008 Max Planck Institute for Biological Cybernetics, Bethge-Lab, Tübingen, Presentation title: *Predictive Coding Principles*
- 2006 Freie Universität Berlin, Theoretical Neuroscience, Grün-Lab, Presentation title: *Optimality and Sufficiency in the Decoding of Auditory Signals*
- 2006 Cold Spring Harbor Laboratory, Zador-Lab, Presentation title: *Sufficient Encoding in the Auditory System: Lessons from Grasshopper Mating Songs*
- 2005 Hebrew University, Interdisciplinary Center for Neural Computation, Presentation title: *The Past-Future Information Bottleneck*

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## CONFERENCE AND WORKSHOP CONTRIBUTIONS

(presented by F. Creutzig if not indicated otherwise)

- 2019 IIASA-Rite Symposium on Demand-side climate solutions, Laxenburg Title: *Current state of IPCC assessment on demand-side solutions*
- 2019 Conference Ethics and Value in Assessment, MCC Berlin, Title: *Intersection points of values and scenario modelling in the IPCC*
- 2019 IPep1.5 Symposium, Potsdam Title: *Session moderator*
- 2019 International Society Industrial Ecology Title: *Scaling up Urban Solutions for Global Climate Mitigation*
- 2017 Third Annual International Transport Energy Modelling (iTEM3) Workshop, Paris Presentation Title: *Carbon pricing renders high-speed railways efficient for climate mitigation*
- 2016 Symposium ‘Cities as Complex systems’, Hannover Presentation Title: *Urban typologies to bridge the gap between idiosyncratic cities and global environmental change*
- 2014 Second International UGEC (Urbanization and Global Environmental Change) conference, Presentation Title: *Urban Heat Risks, Health and Equity*
- 2014 Second International UGEC (Urbanization and Global Environmental Change) conference, Presentation Title: *Urban Form and the Environment*
- 2014 Second International UGEC (Urbanization and Global Environmental Change) conference, Presentation Title: *A Global Typology of Urban Energy Use and Implications for Climate Change Mitigations*
- 2013 Linking Local Consumption to Global Impacts, SESYNC (National Socio-Environmental Synthesis Center), Annapolis, Presentation Title: *Insights from Urban Economics for Linking Local Consumption to Global Impacts*
- 2013 Climate change and its implications on ecosystem services and society. Italian Society for Climate Sciences - SISC. Lecce, Italy. Presentation Title: *Albedo Modifications as Global Mitigation and Local Adaptation Strategy in European Cities: A Geographically Explicit Investigation*, presented by Tiziana Susca

- 2013 Reconceiving Forest Governance: The Example of the German Forest, Mercator Research Institute on Global Commons and Climate Change, Presentation Title: *Forest and Modernity - an Anthropological View*
- 2013 Princeton Institute for International and Regional Studies, Commentator of *Climate Change Response Policies: Dealing with Risk and Uncertainty* by Howard Kunreuther and Elke Weber
- 2013 Princeton Institute for International and Regional Studies, Commentator of *Climate Change Uncertainty in Development Projects* by Stephane Hallegatte
- 2013 Impact World, Potsdam, Presentation Title: *Typology of Uncertainty in the Communication of Climate Change*
- 2013 Micro-Energy Systems, Technical University Berlin, Presentation Title: *Bioenergy and Livelihoods*
- 2013 The Radical Emission Reduction Conference, Tyndall Center, Poster Title: *The Behavioral Economics of Mobility*, presented by Linus Mattauch
- 2012 Applied Urban Modelling, CRASSH, University of Cambridge, Presentation Title: *Low-Carbon Transport Scenarios for European Cities*
- 2012 Better Air Quality, Hong Kong, Poster title: *A Congestion Charge for Beijing?*, presented by Maximilian Thess
- 2012 Planet under Pressure, London, Presentation Title: *Reconciling top-down and bottom-up modeling on future bioenergy deployment, and implications for a risk-based paradigm shift in climate change policy*
- 2012 Planet under Pressure, London, Presentation Title: *Low-carbon transport scenarios for European cities*
- 2011 SUME (Sustainable Urban Metabolism for Europe), Vienna, Presentation Title: *Sustainable Transport Scenarios for Europe*
- 2011 Working Group Transport of the DGfG (German Geographical Society), Presentation Title: *Evaluating E-Mobility as a Climate Mitigation Strategy for Europe*
- 2011 Strategies for Sustainable Mobilities, mobil.TUM, Technical University Munich, Presentation Title: *Operationalizing Sustainable Transport for Scenario Analysis*
- 2010 The Futures of the City: Towards Sustainable Urban Environment and Mobility, COST (European Cooperation in Science and Technology) Presentation Title: *Co-Benefits and Path Dependence in Sustainable Urban Transport*
- 2010 Transport Research Board, Washington, D.C., Poster title: *Hot Deal or Hot Air - Life-cycle Analysis of Pneumatic Cars*
- 2009 International Council for Science, Paris, Presentation Title: *Key Tenets of Sustainable Land Use Economics*
- 2009 Opening the Gates: A Critical Appraisal of China's Urban Development Practices, UC Berkeley, Presentation Title: *Motorization in Beijing*
- 2008 3rd Regional EST Forum, Singapore, Presentation Title: *External costs and congestion charging: a Beijing case study*
- 2007 7th Meeting of the German Neuroscience Society, 2007, Poster Title: *Time-Warp Invariant Pattern Recognition: How do Grasshoppers Solve the Problem?*
- 2006 NIPS 2006, Vancouver, Presentation Title: *Projecting the Past into the Future: the State Space of Dynamical Systems as an Information Bottleneck*

- 2006 **Featured talk**, CNS, Edinburgh, Presentation Title: *Time-Warp Invariant Stimulus Decoding in an Insect Auditory System?*
- 2006 Berlin Neuroscience Forum, Poster Title: *From Burst Encoding to Time-Warp Invariance*
- 2005 6th Meeting of the German Neuroscience Society, Göttingen 2005, Poster Title: *Burst Encoding in the Metathoracic Ganglion of Grasshoppers*