



CURRICULUM VITAE

PERSONAL DATA

Date/Place of Birth: 7. September 1971, Rothenburg ob der Tauber
Nationality: German
Marital status: married w Claudia Löschel, children: Tilman (1999), Benno (2001), Ida (2004), Martha (2009)
Address: Luisenstr. 31, 68723 Schwetzingen, Tel.: ++49 170 - 3821208, andreas@loeschel.eu

CURRENT POSITIONS

since 9/2021 Professor of Environmental/Resource Economics and Sustainability, **Ruhr-Universität Bochum**
since 12/2021 Senior Faculty Member of the **Ruhr Graduate School in Economics (RGS Econ)**
10/21 – 9/22 Senior Fellow at the **Alfried Krupp Institute of Advanced Studies (IAS)**, Greifswald
since 2011 Chairman of the German Government's **Expert Commission to Monitor the Energy Transition**
since 2017 Head of the Virtual Institut **Smart Energy North Rhine-Westphalia**

PROFESSIONAL EXPERIENCE

7/14-8/21 Professor of Economics (W3), esp. Energy & Resource Economics and Director of the Centre of Applied Economic Research Münster (CAWM), **University of Münster**
11/10-6/14 Professor of Economics (W3), esp. Environmental & Resource Economics, **University of Heidelberg**
8/07-6/2014 Head of the Research Department "Environmental and Resource Economics, Environmental Management" at **ZEW – Leibniz Centre for European Economic Research**
10/05–7/07 Scientific Officer, **European Commission**, DG Joint Research Centre, Institute for Prospective Technological Studies (IPTS), Seville, Spain
12/99–08/05 Senior Researcher (since 2005 with tenure) at **ZEW**

RESEARCH INTERESTS AND ACADEMIC IMPACT

Energy economics and policy, climate change economics, international environmental agreements, behavioural economics, computable general equilibrium modelling

Google Scholar: 9190 citations, h-Index = 49 (7.4.2023)

Scopus: 3354 Zitationen, h-Index = 33, 114 papers (7.4.2023)

More than 80 articles in (Social) Sciences Citation Index Journals, e.g., Canadian Journal of Economics, Ecological Economics, *Economica*, *Economics Letters*, *Energy Research and Social Sciences*, *Energy Economics*, *Environmental and Resource Economics*, *Environmental Research Letters*, *European Economic Review*, *Journal of Environmental Economics and Management*, *Journal of Economic Dynamics and Control*, *Journal of Public Economics*, *Land Economics*, *Nature Climate Change*, *Nature Energy*, *Nature Geoscience* or *Proceedings of the National Academy of Sciences (PNAS)*

Editorial board memberships: *Climate Policy*, *Energy and Climate Change*, *Energy Journal*, *Perspektiven der Wirtschaftspolitik*, *Resource and Energy Economics*

Editor of Special Issues: *Applied Energy*, *China Economic Review*, *Economica*, *Economics of Energy & Environmental Policy*, *Energy and Buildings*, *Energy Economics*, *Energy Policy*, *Resources, Conservation & Recycling*, *Resource and Energy Economics*

EDUCATION

6/2009	Habilitation (Dr. rer. pol. habil.), Oldenburg University , university teaching credential for economics (Habilitation Title: Sustainability Impact Assessment with CGE Models)
2003	Dissertation (Dr. rer. pol.), Department of Economics, University of Mannheim , Germany (Dissertation Title: Economic Impacts of Climate Change Policy, summa cum laude)
9/03–12/03	Studies in the “Program on Negotiation” at Harvard University , Massachusetts Institute of Technology (MIT) and Fletcher School of Diplomacy, Tufts University , Cambridge (Mass.), USA
11/92–10/98	Diploma in Economics (Diplom-Volkswirt), University of Erlangen-Nuremberg , Germany
9/94–5/95	M.A., Economics, Wayne State University , Detroit, USA
8/93–9/93	Studies in Economics, University of California, Los Angeles (UCLA), USA

AFFILIATIONS AND RESEARCH VISITS

7/21-9/22	Senior Fellow, University of Greifswald and Alfried-Krupp Wissenschaftskolleg (IAS)
since 10/2021	Research Associate, RWI - Leibniz Institute for Economic Research
since 2021	Invited Researcher, J-PAL King Climate Action Initiative, MIT
since 2019	Research Associate, Institute of Economics, University of Barcelona
since 2018	Advisor to Fraunhofer Society , Munich, Germany
since 2017	Visiting Chair Professor, University of International Business and Economics (UIBE) , Beijing (Foreign Scholar, 111 Innovation Centre for Global Value Chains, SAFEA)
since 2016	CESifo Research Network Fellow, CESifo , Munich
since 2015	Advisor to Aurora Energy Research Limited, Oxford, UK
since 2013	Guest Professor, University of International Business and Economics (UIBE) , Beijing
since 2010	Research Associate, CCEP, Australian National University (ANU) , Canberra, Australia
2014-2021	Research Associate, ZEW , Mannheim
2017-2021	Co-Director, Australia-Germany Energy Transition Research Hub
2015-2017	Excellency Professor (High-End Foreign Expert of the State Administration of Foreign Experts Affairs SAFEA , State Council, PR China), P.R. China (Guest Professor since 2013)
6/19-8/19	Visiting Fellow, Australian National University (ANU) , Canberra, Australia
4/17-7/17	Oxford Martin Visiting Fellow, Oxford University
4/13	Senior Visiting Scholar, Tsinghua University , Beijing, China
9/15, 10/11	Visiting Researcher, Crawford School of Economics & Government,
10–11/2010	Australian National University (ANU) , Canberra, Australia
09/2010	Economist Visitors Programme, European Commission (DG Enterprise & Industry)
9/06–8/07	Visiting Professor in Economics, University Pablo de Olavide , Seville, Spain
5/05–7/05	Visiting Scholar, Department of Economics, Stanford University , Stanford, CA, USA
5/2004	Visiting Scholar, Joint Program on the Science and Policy of Global Change,
8–12/2003	Massachusetts Institute of Technology (MIT) , Cambridge (Mass.), USA

AWARDS AND HONOURS

since 2016	Elected Member of the National Academy of Science and Engineering (acatech)
2022	German Prize for Economics of the Joachim Herz Stiftung for significant contributions to the further development of economic research (highest endowed research prize in economics in Germany)
2021	Prize for Science Communication “wissen.kommuniziert”, Münster University Society
2021	Senior Fellowship, Alfried-Krupp Wissenschaftskolleg , Greifswald
2013 - 2020 (continually)	Among the 50 most influential economists in Germany in the Frankfurter Allgemeine Zeitung (F.A.Z.) Ranking of Economists
2019	ACT-ANU Energy Expert-in-Residence , Australian Capital Territory (ACT) and Australian National University (ANU), Canberra
2017	Oxford Martin Visiting Fellowship, University of Oxford
2017	Handelsblatt ranking of German speaking economists Top-100 Economists (current research), Top-100 Economists under 40 (2011, 2010, 2008, 2007)
2010, 2011	Scholarship of the German Academic Exchange Service (DAAD) for research visit at ANU
2005	Scholarship of Fritz Thyssen Foundation for research visit at Stanford University
2004	Award of the Karin Islinger Foundation for doctoral thesis, University of Mannheim
2000	German Student Research Prize (First Prize) of the Körber Foundation for diploma thesis on privatizing old age security
1998–2001	Scholarship of the German Science Foundation (DFG) for doctoral studies at the graduate programme “Environmental and Resource Economics” at University of Heidelberg and University of Mannheim
1998	Award for best diploma examination, Wiso-Fakultätsbund Nuremberg

1995–1998 Scholarship of the **Friedrich Naumann Foundation**

OTHER ACADEMIC ACTIVITIES

- since 2023 Member of the Scientific Advisory Board, **Institute for Advanced Studies (HIS)**, Vienna
- since 2023 Member of the Board of Trustees, **Max Planck Institut für Kohlenforschung**, Mülheim an der Ruhr
- since 2023 Member of the Scientific Steering Committee “Future Transmission Lab”, **Amprion**
- since 2022 Member of the Advisory Board, **Consumer Association NRW**
- since 2021 Member of the Scientific Advisory & Project Board (SAPB), **50Hertz Transmission**
- since 2021 Member of Advisory Board, **EPICO - Energy and Climate Policy and Innovation Council e.V.**
- since 2021 Vice Chair of the Academic Committee, International School of Low Carbon Studies, **Shandong University of Finance and Economics**
- since 2020 Member of Scientific Advisory Board, **Institut für Energy (EWI), University Cologne**
- since 2019 Member of the Advisory Board, **Agora Energiewende**
- since 2019 Member of the Scientific Advisory Board, **Deutsches Institut für Wirtschaftsforschung (DIW)**
- since 2019 Member of the International Advisory Board, **Wuppertal Institut**
- since 2018 Member of the **German-Japanese Energy Transition Council (GJETC)** supported e.g. by Japan Ministry of Economy, Trade and Industry (METI), German Federal Foreign Office, Federal Ministry for Economic Affairs and Energy, Federal Environment Ministry
- since 2017 Member of the **Scientific Commission of the State of Lower Saxony**
- since 2013 Member of the Board of Trustees of the Academy Project “Energy systems of the future”, **German Academies of Sciences** (Leopoldina, Union, acatech)
- since 2013 Member of the Working Group for Ecological Affairs of the **German Bishops’ Conference**
- 2018-2023 Lead author (Ch 6 Energy Systems) and Autor (Ch 13 National and sub-national policies & institutions), Working group III, 6th Assessment Report, **Intergovernmental Panel on Climate Change (IPCC)**
- 2021 Member of the Working Group “A systemic approach to the energy transition in Europe”, **Science Advice for Policy by European Academies**, informs the Scientific Opinion of the European Commission Group of Chief Scientific Advisors (<https://www.sapea.info/wp-content/uploads/energy-transition-report.pdf>)
- 2020 Member of the Working Group “Energy transition 2030: Europe's path to carbon neutrality”, German National Academy of Sciences **Leopoldina**, **acatech** and the Union of the German Academies
- 2020 Member of the advisory board, “Feasibility study on a German-Australian hydrogen supply chain based on renewable energies (HySupply)”, **acatech** - German Academy of Science and Engineering and the **Federation of German Industries (BDI)**
- 2014-2017 Member of the External Advisory Board of the **DFG Exzellenz Cluster** “Integrated Climate System Analysis and Prediction” (CliSAP) at the Universität Hamburg
- 2014-2016 Lead Author, **Global Environment Outlook (GEO-6)** of the UN Environment Programme (UNEP) (Regional Assessment: Climate and Energy in Europe)
- 2012 Member of the **German delegation** at the **International Maritime Organisation** MEPC 64 meeting in London, UK
- 2010-2014 Lead author, Fifth assessment report, Working group III (Chapter 6 Assessing Transformation Pathways), **Intergovernmental Panel on Climate Change (IPCC)**
- 2007 Member of the **Delegation of the European Commission** at the **UNFCCC Climate Conference** in Bali, Indonesia, Presentation at climate change conferences at Poznan (2008), Barcelona (2009), Copenhagen (2009), Durban (2011), Warsaw (2013), Lima (2014)
- since 2006 Member of the **Standing Research Committee on Environmental and Resource Economics**, German Economic Association
- 2002-2009 Participation in studies on “Multi-Gas Mitigation and Climate Change” (EMF 21) (2002-2004), “Climate Change Scenarios: U.S. Domestic and International Policy Architectures” (EMF 22) (2004-2009) **Energy Modeling Forum** (EMF), Stanford University

RESPONSIBILITIES AT THE UNIVERSITY OF MÜNSTER (WWU) AND BOCHUM (RUB)

- 2022 **Representative for Sustainability, Ruhr Universität Bochum**
- 2022 Board of Directors, **Institute for Mining and Energy Law, Ruhr Universität Bochum**
- 2022 Board of Directors, **Research Department: Closed Carbon Cycle Economy, Ruhr Universität Bochum**
- 2021 Board Member, **Center of Interdisciplinary Sustainability Research (ZIN), WWU**
- 2019-2021 Principal Investigator, “**Excellence Start-up Center.NRW**”, **WWU**, commissioned by Ministry of Economics, Innovation, Digitisation and Energy of the State of North Rhine-Westphalia
- 2018-2021 Member of the **Senate of the University of Münster**

- 2016-2021 **Speaker of the Section Economics**, School of Business and Economics, **University of Münster**
- 2016-2021 Member of the Advisory Board MEET Batterieforschungszentrum (**Münster Electrochemical Energy Technology**) at the University of Münster
- 2016-2021 Director of the Zentralinstitut für Raumplanung (**Central Institute for Spatial Planning**), WWU
- 2019/2020 **Chairman of the selection committee** "Professor of Economics (W3 level) with a focus on microeconomics / industrial organization", WWU
- 2019/2020 **Chairman of the selection committee** "Professor of Economics (W3 level) with a focus on economic cooperation research", WWU
- 2016-2019 **Chairman of the examination board** of the Master's Program in Energy Economics (double degree from the University of Münster and RWTH Aachen at the Haus der Technik in Essen), WWU
- 2015-2019 Academic Head of dual degree **Master Programme "Energy Economics"**, RWTH Aachen/Univ. Münster

EXPERT REVIEWS, EVALUATION COMMITTEES AND JURY PARTICIPATION

- 2020 Member of the Evaluation Committee of the **German Science Council** (Wissenschaftsrat) for the evaluation of the Institute for Advances Sustainability Studies (IASS), Potsdam
- 2019 Scientific Expert, **State Parliament of North Rhine-Westphalia's** committee on Europe and International Affairs, "European Climate Policy: Giving CO₂ a prize"
- 2014 - 2019 Scientific Expert, **German Parliament's** committee on Economics and Energy, annual briefing on "Status of the Energy Transformation"
- 2018 Scientific Expert, **German Governments's** committee on "Growth, Structural Change and Employment" (Coal Exit Commission), briefing on "Impacts of a coal phase out"
- 2017 Scientific Expert, **German Parliament's** committee on Finance, briefing on "Energy and Electricity Tax Reform"
- 2013 Member of the Evaluation Committee of the DFG Priority Program „Climate Engineering“ for the **German Science Foundation** (DFG)
- 2011 Member of the Evaluation Committee of the **German Science Council** (Wissenschaftsrat) for the evaluation of the Wuppertal Institute
- 2008 Scientific Expert, **European Parliament's** committee on Industry, research and energy, briefing on "RES Trading as an Option" for the EU directive on renewable energy
- 2008 Member of the Evaluation Committee of the **Wegener Center for Climate and Global Change**, Graz University
- 2005-2007 Expert reviewer for 4th Assessment Report (AR4), Working Group II (Impacts, Adaptation and Vulnerability) and Working Group III (Mitigation), **IPCC**

SELECTED POLICY DOCUMENTS

- Publication of Sixth Assessment Report, Working group III (Chapter 6 Energy Systems), Intergovernmental Panel on Climate Change (IPCC) (lead author), 2022
- Publication of the Working Group "A systemic approach to the energy transition in Europe", Science Advice for Policy by European Academies, informs the Scientific Opinion of the European Commission Group of Chief Scientific Advisors, 2021 (<https://www.sapea.info/wp-content/uploads/energy-transition-report.pdf>)
- Publication of the Working Group "Energy transition 2030: Europe's path to carbon neutrality", German National Academy of Sciences Leopoldina, acatech and the Union of the German Academies, 2020
- Coordination of G20 Insights Policy Brief "Establishing an expert advisory commission to assist the G20's energy transformation processes" (https://www.g20-insights.org/policy_briefs/establishing-expert-advisory-commission-assist-g20s-energy-transformation-processes/) with authors from German Expert Commission on the Monitoring Process "Energy of the future", UK Committee on Climate Change, Australian Academy of Technology and Engineering, acatech – German National Academy of Science and Engineering, Chinese Academy of Engineering, World Energy Council, France, India, Japan, 2017.
- Publication of the Regional Assessment: Climate and Energy in Europe, Global Environment Outlook (GEO-6) of the UN Environment Programme (UNEP) (Lead Author), 2016
- Publication of the Fifth Assessment Report, Working group III (Chapter 6 Assessing Transformation Pathways), Intergovernmental Panel on Climate Change (IPCC) (Lead author), 2014.
- Issue Note (with Peter Heindl) for the Green Growth and Sustainable Development Forum of the OECD on Energy sector reform and its impact on households", November 2014
- Communications from the Commission "Analysis of options to move beyond 20% greenhouse gas emission reductions and assessing the risk of carbon leakage" {COM(2010)260} and the "Background information and analysis" {COM(2010)265 final}; information and analysis provided by me have been extensively used and recognised

Submission of Germany to the "Marine Environmental Protection Committee" (MEPC) of the International Maritime Organisation (IMO) on "Possible uses of revenues generated by an Emissions Trading System" (MEPC 62/5/15) is based on a study directed by me at ZEW

European Parliament's committee on Industry, research and energy, Briefing papers on „Opportunities for renewable energy development in Europe“, briefing on "RES Trading as an Option", IP/A/ITRE/WS/2008-02

Impact Assessment accompanying the „Package of Implementation measures for the EU's objectives on climate change and renewable energy for 2020“ of the European Commission {SEC(2008)85/3}; information and analysis provided by me have been extensively used and recognised

Communications from the Commission "Biofuels Progress Report" COM(2006)845 and "Renewable Energy Road Map" COM(2006)848 and the accompanying Impact Assessments {SEC(2006) 1721} {SEC(2006) 1720}; information and analysis provided by me have been extensively used and recognised

Schwetzingen, April 2023

COURSES

Summer 22	Ruhr Universität Bochum , „Climate Economics“ (English), Lecture, MA (2 SWS)
Summer 22	Ruhr Universität Bochum , „Energy Economics“ (German), Lecture, BA (2 SWS)
Summer 22	Ruhr Universität Bochum , „Topics in Resource Economics“, (English) Seminar, MA (2 SWS)
Summer 22	Ruhr Universität Bochum , „Topics in Environmental Economics“ (English), Seminar, BA (2 SWS)
Summer 22	Universität Greifswald , „Topics in Environmental Economics“ (English), Seminar, MA (2 SWS)
Summer 2020	University of International Business and Economics (UIBE) and Shandong University of Finance and Economics , „Climate Economics“ (English), Lecture, MA (2 SWS)
Summer 15-21	Universität Münster , „Climate Economics“ (English), Lecture, MA (2 SWS)
Summer 15-21	Universität Münster , „Energy Economics“ (German), Lecture, BA (2 SWS)
Summer 15-21	Universität Münster , „Topics in Resource Economics“, (English) Seminar, MA (2 SWS)
Summer 15-21	Universität Münster , „Topics in Environmental Economics“ (English), Seminar, BA (2 SWS)
Summer 2015	Universität Münster , „Microeconomics“ (German), Lecture, BA (4 SWS)
Winter 14-20	Universität Münster , „Environmental Economics“ (English), Lecture, MA (2 SWS)
Winter 14-20	Universität Münster , „Resource Economics“, (German) Lecture, BA (2 SWS)
Winter 14-20	Universität Münster , „Energy Economics“ (German), Seminar, MA (2 SWS)
Winter 14-20	Universität Münster , „Climate Economics“ (English), Seminar, BA (2 SWS)
Summer 2014	University of Mannheim , „The Energy Transition – Economic Dimension and Ethical Justification“ (2 hours per week)
Summer 2014	University of Heidelberg , „Managing the Global Commons“ (2 hours per week)
Summer 2014	Wroclaw University of Economics , „Emissions Trading Schemes“ (1 hour per week)
Winter 2013	University of Heidelberg , „Economic Problems of the Energy Transition“ (2 hours per week)
Winter 2012	University of Heidelberg , „Climate Change and Development“ (2 hours per week)
Summer 2012	University of Heidelberg , „Introduction to CGE Modeling“ (2 hours per week)
Winter 2011	University of Heidelberg , „Introduction to CGE Modeling“ (2 hours per week)
Winter 2011	University of Heidelberg , „International Technology Transfer“ (2 hours per week)
Summer 2011	University of Heidelberg , „Climate and Justice“ (2 hours per week)
Winter 2010	University of Heidelberg , „Transition towards a Green Economy“ (2 hours per week)
2010	University College London (UCL) , School of Energy and Resources, Adelaide, Australia, „The EU Emissions Trading Scheme“, MSc Course Climate Change: Modelling & Policy
2010	University of Mannheim , Mannheim Business School, „Sustainability - Macroeconomic and Company Perspectives on Climate Change“, Executive MBA Class
2010	Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) , „Environmental Economics“
Winter 2008	University of Heidelberg , „Climate Change and the Economics of Adaptation“ (2 hours)
Summer 2008	Tübingen University , Forum Scientiarum Sommerakademie „Climate Change – Natural Science and Policy in Dialogue“ (1 hour per week)
Summer 2008	Darmstadt University , „Economic Aspects of Environmental Politics“ (english) (1 hour per week)
Summer 2007	Universidad Pablo de Olavide , Seville, „Principles of Macroeconomics“ (english) (3 hours per week)
Winter 2006	Universität Pablo de Olavide , Seville, „Principles of Microeconomics“ (english) (3 hours per week)
2006, 2007	Secretary General of the European Commission , „Impact Assessment Advanced Workshop“
Summer 2005	Pforzheim University of Applied Sciences , „Theory and Policy of Pension Systems“ (2 hours)
Winter 2004	Pforzheim Univ. of Applied Sciences , „International Environmental Economics“ (2 hours)
Winter 2004	University of Heidelberg , „Sustainable Development“ (2 hours per week)
Summer 2004	University of Heidelberg , „Political Economy of Environmental Policy“ (2 hours per week)

PUBLICATIONS

RESEARCH INTERESTS AND ACADEMIC IMPACT

Energy economics and policy, climate change economics, international environmental agreements, behavioural economics, computable general equilibrium modelling

Google Scholar: 9190 citations, h-Index = 49 (7.4.2023)

Scopus: 3354 Zitationen, h-Index = 33, 114 papers (7.4.2023)

More than 80 articles in (Social) Sciences Citation Index Journals, e.g., *Canadian Journal of Economics*, *Ecological Economics*, *Economica*, *Economics Letters*, *Energy Research and Social Sciences*, *Energy Economics*, *Environmental and Resource Economics*, *Environmental Research Letters*, *European Economic Review*, *Journal of Environmental Economics and Management*, *Journal of Economic Dynamics and Control*, *Journal of Public Economics*, *Land Economics*, *Nature Climate Change*, *Nature Energy*, *Nature Geoscience* or *Proceedings of the National Academy of Sciences (PNAS)*

EDITORSHIPS OF JOURNALS

since 2019 Member of the Editorial Board "**Energy and Climate Change**"

since 2019 Member of the Editorial Board "**Perspektiven der Wirtschaftspolitik**" (Perspectives in Economic Policy) published by the association of German economists

since 2018 Associate Editor of the Journal "**Resource and Energy Economics**"

since 2017 Member of the Editorial Board of the Journal "**The Energy Journal**"

since 2016 Member of the Editorial Board of the Journal "**Climate Policy**"

Editor of Special Issues of the Journals **Applied Energy** (2021), **Resources, Conservation & Recycling** (2021), **Energy and Buildings** (2021), **Applied Energy** (2020), **China Economic Review** (2020), **Resource and Energy Economics** (2019), **Energy Economics** (2019), **Economics of Energy & Environmental Policy** (2019), **Energy Economics** (2017), **Energy Economics** (2015), **Energy Policy** (2014), **Economica** (2014), **Energy Policy** (2010)

TEN REPRESENTATIVE JOURNAL ARTICLES

A multi-country meta-analysis on the role of behavioral change in reducing energy consumption and CO₂ emissions in residential buildings (with T. Khanna, G. Baiocchi, M. Callaghan, F. Creutzig, H. Guias, N. Haddaway, L. Hirth, A. Javaid, N. Koch, S. Laukemper, M. Del Mar Zamora and J. Minx), **Nature Energy**, 6, 925–932, 2021.

On the role of present bias and biased price beliefs in household energy consumption (with M. Werthschulte), **Journal of Environmental Economics and Management (JEEM)**, 109, 102500, 2021.

The Impacts of the EU ETS on Efficiency - An Empirical Analyses for German Manufacturing Firms (with B. Lutz and S. Managi), **Resource and Energy Economics**, 56, 71-95, 2019.

On the Effects of Unilateral Environmental Policy on Offshoring in Multi-Stage Production Processes (with O. Schenker and S. Koesler), **Canadian Journal of Economics**, 51(4), 2018.

The long-term impact of matching and rebate subsidies when public goods are impure: Field experimental evidence from the carbon offsetting market (with M. Kesternich & D. Römer), **Journal of Public Economics**, 137, 70-78, 2016.

The Demand for Climate Protection - Empirical Evidence from Germany (with B. Sturm and C. Vogt), **Economics Letters**, 118(3), 415–418, 2013.

Inequality, communication, and the avoidance of disastrous climate change in a public goods game (with A. Tavoni, A. Dannenberg and G. Kallis), **Proceedings of the National Academy of Sciences (PNAS)**, 108(29), 11825-11829, 2011.

On the Self-interested Use of Equity in International Climate Negotiations (with A. Lange, C. Vogt and A. Ziegler), **European Economic Review**, 54(3), 359-375, 2010.

Decomposing Integrated Assessment of Climate Change: Methodology and Sample Application (with C. Böhringer and T. F. Rutherford), **Journal of Economic Dynamics and Control**, 31(2), 683-702, 2007

Technological Change in Economic Models of Environmental Policy: A Survey, in: **Ecological Economics**, 43(2-3), 105-126, 2002.

ARTICLES IN JOURNALS OF THE (SOCIAL) SCIENCES CITATION INDEX (SSCI)

1. Digital technology and energy sustainability: Recent advances, challenges, and opportunities (with C. Wei, C.-Z. Li, S. Managi and T. Lundgren), **Resources, Conservation and Recycling** 190, 106803, 2023.
2. Can a Catholic Institution Promote Sustainable Behavior? Field Experimental Evidence on Donations for Climate Protection (with M. Gleue and C. Feldhaus), **Journal of Behavioral and Experimental Economics**, 98, 101855, 2022.
3. Encouraging consumer activity through automatic switching of the electricity contract - A field experiment (with C. Feldhaus, J. Lingens, G. Zunker), **Energy Policy**, 164, 112855, 2022.
4. Patterns and determinants of carbon emission flows along the Belt and Road from 2005 to 2030 (with Y. Yang, H. Wang und P Zhou), **Ecological Economics**, 192, 107260, 2022.
5. What motivates smart meter adoption? Evidence from an experimental advertising campaign in Germany (with S. Berger, F. Ehering, C. Feldhaus and A. Wyss), **Energy Research & Social Science**, 85, 102357, 2022.
6. Recent advances in energy demand for residential space heating (with C. Wei and Y. Huang), **Energy and Buildings**, 261, 111965, 2022.
7. On the role of present bias and biased price beliefs in household energy consumption (with M. Werthschulte), **Journal of Environmental Economics and Management (JEEM)**, 109, 102500, 2021.
8. A multi-country meta-analysis on the role of behavioral change in reducing energy consumption and CO2 emissions in residential buildings (with T. Khanna, G. Baiocchi, M. Callaghan, F. Creutzig, H. Guias, N. Haddaway, L. Hirth, A. Javaid, N. Koch, S. Laukemper, M. Del Mar Zamora and J. Minx), **Nature Energy**, 6, 925–932, 2021.
9. The demand for global and local environmental protection – experimental evidence from climate change mitigation in Beijing (with B. Sturm, J. Pei, W. Ran, W. Buchholz and Z. Zhao), **Land Economics**, 97, 137-154, 2021.
10. Does demand-side flexibility reduce emissions? Exploring the social acceptability of demand management in Germany and Great Britain (with P. Grunewald, M. Gleue and J. Unterberg), **Energy Research & Social Science**, 82, 102290, 2021.
11. The changing role of global value chains in decoupling economic growth from CO2 emissions in 2000-2014 (with D. Zhang, H. Wang and P. Zhou), **Energy Economics**, 93, 105053, 2021.
12. Coal Transitions-Part 1: A systematic map and review of case study learnings from regional, national, and local coal phase-out experiences (with F. Diluiso, P. Walk, N. Manych, N. Cerutti V. Chipiga, A. Workman, C. Ayas, R. Cui, D. Cui, K. Song, L. Banisch, N. Moretti, M. Callaghan, L. Clarke, F. Creutzig, J. Hilaire, F. Jotzo, M. Kalkuhl, W. Lamb, F. Müller-Hansen, G. Nemet, P.-Y. Oei, B. Sovacool, J. Steckel, S. Thomas, J. Wiseman, J. Minx), **Environmental Research Letters**, 16 (11), 1003003, 2021.
13. Managing momentum in climate negotiations (with S Carattini), **Environmental Research Letters**, 16 (5), 051001, 2021.
14. Negotiating Weights for Burden Sharing Rules in International Climate Negotiations: An Empirical Analysis (with M. Kesternich and A. Ziegler), **Environmental Economics and Policy Studies**, 23(4), 309-331, 2021.
15. The future of coal in a carbon-constrained climate (with M. Jakob, C. Steckel, F. Jotzo, B. Sovacool, L. Cornelsen, R. Chandra, O. Edenhofer, C. Holden, T. Nace, N. Robins, J. Suedekum and J. Urpelainen), **Nature Climate Change**, 10, 704–707, 2020.
16. The rebound effect representation in climate and energy models (with G. Colmenares and R. Madlener), **Environmental Research Letters**, 15, 123010, 2020.
17. Emissions trading systems for global low carbon energy and economic transformation – Editorial (with X. Zhang, J. Lewis, D. Zhang and J. Yang), **Applied Energy**, DOI 10.1016/j.apenergy.2020.115858, 2020.
18. Recent advances in energy demand research in China (with C. Wei and S. Managi), **China Economic Review**, 63, 1-6, 2020.
19. Low-carbon Transitions: Economics and Policy– Editorial (with C. de Miguel, M. Filippini, X. Labandeira and J. Labeaga), **Energy Economics**, 84 (Suppl. 1), 1-3 (2019)
20. Conditional cooperation in the case of a global public good - experimental evidence from climate change mitigation in Beijing (with W. Ran, J. Pei, B. Sturm and Z. Zhao), **China Economic Review**, 56, 101308 (2019).
21. Do voluntary environmental programs reduce emissions? EMAS in the German manufacturing sector (with R. Kube, K.v. Graevenitz and P. Massier), **Energy Economics**, 84, 1-12 (2019).
22. Interdisciplinary synthesis report on the coal phaseout. The Kopernikus project ENavi informs the German coal commission (with M. Pahle et al.), **GAIA**, 28(1), 61-62, 2019.
23. Facing the Energy Transition - An Introduction (with M.T. Costa-Campi and E. Trujillo-Baute), **Economics of Energy & Environmental Policy**, 8(2), 1-6, 2019.
24. The European Union energy transition: key priorities for the next five years (with S. Tagliapietra, G. Zachmann, O. Edenhofer, J.M. Glachant and P. Linares), **Energy Policy**, 132, 950-954, 2019.
25. The Impacts of the EU ETS on Efficiency - An Empirical Analyses for German Manufacturing Firms (with B. Lutz and S. Managi), **Resource and Energy Economics**, 56, 71-95, 2019.

26. Recent Advances in Energy Demand Analysis – Insights for Industry and Households (with S. Managi), **Resource and Energy Economics**, 56, 1-5, 2019.
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