

Publications Jens Horbach

A) *Refereed Journals/Publications*

Horbach, Jens (1993): Umweltbewusstsein in Deutschland: ein Ost-West-Vergleich. Zeitschrift für Angewandte Umweltforschung (ZAU), Jg. 6, Heft 1 (1993), S. 44-53

Horbach, Jens (1993): Fördermaßnahmen und Umweltschutzinvestitionen in den neuen Bundesländern. Zeitschrift für Angewandte Umweltforschung (ZAU), Jg. 6, Heft 3 (1993), S. 389-398

Horbach, Jens (1994): Die umwelttechnische Industrie in der Bundesrepublik Deutschland: Marktvolumen, Wettbewerbsfähigkeit und Entwicklungsperspektiven. Wirtschaft im Wandel, Nr. 0, 1994, S. 6-9

Horbach, Jens (1995): Strukturwandel und Umweltentlastung in den neuen Bundesländern. Wirtschaft im Wandel, Nr. 15/1995, S. 8-13

Horbach, Jens (1996): Ökonomische Bürokratie- und Vollzugstheorien - Lehren für die Umweltpolitik? In: Gawel, E. (Hg.): Institutionelle Probleme der Umweltpolitik, Sonderheft 8/1996 der Zeitschrift für Angewandte Umweltforschung (ZAU), Berlin, S. 119-127

Horbach, Jens (1996): Umweltproblematik in den CEFTA-Ländern und Marktchancen für Umwelttechnik. Wirtschaft im Wandel, Nr. 10/1996, S. 9-12

Horbach, Jens; Komar, Walter (1996): Beschäftigung durch Umweltschutz in Deutschland. Wirtschaft im Wandel, Nr. 15/1996, S. 6-9

Blien, Uwe; von Hauff, Michael; Horbach, Jens (2000): Beschäftigungseffekte von Umwelttechnik und umweltorientierten Dienstleistungen in Deutschland. Mitteilungen des Instituts für Arbeitsmarkt- und Berufsforschung (IAB) 33. Jg., Heft 1 2000, S. 126-135

Horbach, Jens; Bellmann, Lutz; Blien, Uwe; von Hauff, Michael (2003): Beschäftigung im Umweltschutzsektor in Deutschland – Eine empirische Untersuchung auf der Basis des IAB-Betriebspanels. Zeitschrift für Angewandte Umweltforschung (ZAU), Jg. 14 (2001), S. 109-126

Horbach, Jens (2004): Beschäftigungserwartungen und Innovationen im Umweltbereich - Eine empirische Analyse auf der Basis des IAB-Betriebspanels. Mitteilungen des Instituts für Arbeitsmarkt- und Berufsforschung (IAB) 36. Jg., Heft 3 2003, S. 291-299

Fronzel, Manuel; Horbach, Jens; Rennings, Klaus, Requate, Till (2005): Environmental Policy Tools and Firm-Level Management Practices: A Cross-OECD Survey of Firms, National Report for Germany. RWI: Mitteilungen. Quarterly, Vol. 54/55 (2003/04) – 2, S. 87-111

Fronzel, Manuel; Horbach, Jens; Rennings, Klaus (2007): End-of-Pipe or Cleaner Production? An Empirical Comparison of Environmental Innovation Decisions across OECD Countries. Business Strategy and the Environment, Vol. 16, Issue 8 (December 2007), p. 571-584

Horbach, Jens (2005): Determinants of Ecological Structural Change - An Empirical Analysis for West Germany. RWI: Mitteilungen. Quarterly, Vol. 54/55 (2003/04) – 2, S. 113-129

Fronzel, Manuel; Horbach, Jens; Rennings, Klaus (2008): What triggers environmental management and innovation? Empirical evidence for Germany. Ecological Economics 66 (2008), 153-160

Horbach, Jens (2008): Determinants of Environmental Innovation – New Evidence from German Panel Data Sources. Research Policy 37 (2008), 163-173

Horbach, Jens; Blien, Uwe; von Hauff, Michael (2009): The Environmental Sector in Germany: Structural Change and Determinants of Market Shares. Zeitschrift für Umweltpolitik und Umweltrecht (ZfU) 4/2009, 427-446

Horbach, Jens (2010): The Impact of Innovation Activities on Employment in the Environmental Sector – Empirical Results for Germany at the Firm Level. Jahrbücher für Nationalökonomie und Statistik / Journal of Economics and Statistics, Vol. 230/4, 403-419

Horbach, Jens; Rammer, Christian; Rennings, Klaus (2012): Determinants of Eco-innovations by Type of Environmental Impact - The Role of Regulatory Push/Pull, Technology Push and Market Pull. Ecological Economics 78 (2012), 112-122

Horbach, Jens; Oltra, Vanessa; Belin, Jean (2013): Determinants and specificities of eco-innovations – An econometric analysis for the French and German Industry based on the Community Innovation Survey. Industry and Innovation Vol. 20, 6, 523-543

<http://dx.doi.org/10.1080/13662716.2013.833375>.

Horbach, Jens; Rennings, Klaus (2013): Environmental Innovation and Employment Dynamics in Different Technology Fields - An Analysis Based on the German Community Innovation Survey 2009. Journal of Cleaner Production Vol. 57, October 2013, 158-165

Horbach, Jens (2014): Do eco-innovations need specific regional characteristics? An econometric analysis for Germany. Review of Regional Research, Vol. 34, Issue 1, 23-38

Horbach, Jens; Chen, Qian; Rennings, Klaus; Vögele, Stefan (2014): Do Lead Markets for Clean Coal Technology Follow Market Demand? A Case Study for China, Germany, Japan and the USA. *Environmental Innovation and Societal Transitions* 10 (2014), 42-58

<http://dx.doi.org/10.1016/j.eist.2013.08.002>

Horbach, Jens (2015): The role of environmental policy for eco-innovation: Theoretical background and empirical results for different countries. In: Crespi, Francesco, Quatraro, Francesco (eds.) (2015): *The Economics of Knowledge, Innovation and Systemic Technology Policy*, Routledge, London, New York, 348-360

Horbach, Jens (2016): Empirical Determinants of Eco-innovation in European Countries using the Community Innovation Survey. *Environmental Innovation and Societal Transitions* 19 (2016): 1-14

Horbach, Jens (2016): Impacts of regulation on eco-innovation and job creation. Do regulation-induced environmental innovations affect employment? *IZA World of Labor* 216: 265, doi: 10.15185/izawol.265

Horbach, Jens; Janser, Markus (2016): The Role of Innovation and Agglomeration for Employment Growth in the Environmental Sector. *Industry and Innovation* Vol. 23, No. 6: 488–511

Horbach, Jens; Jacob, Jojo (2018): The relevance of personal characteristics and gender diversity for (eco) - innovation activities at the firm-level. Results from a linked employer-employee database in Germany. *Business Strategy and the Environment* Vol. 27 (7): 924-934, DOI: 10.1002/bse.2042

Horbach, Jens; Rammer, Christian (2018): Energy Transition in Germany and Regional Spillovers: The Diffusion of Renewable Energy in Firms. *Energy Policy* 121 (2018): 404-414

Horbach, Jens (2018): The Impact of Resource Efficiency Measures on the Performance of Small and Medium-sized Enterprises. In: Horbach, Jens, Reif, Christiane (eds.): *New Developments in Eco-Innovation Research*, Series Sustainability and Innovation, Springer, Cham: 147-162

Horbach, Jens; Reif, Christiane (2018): New Developments in Eco-Innovation Research: Aim of the Book and Overview of the Different Chapters. In: Horbach, Jens, Reif, Christiane (eds.): *New Developments in Eco-Innovation Research*, Series Sustainability and Innovation, Springer, Cham: 1-11

Horbach, Jens (2019): Determinants of eco-innovation at the firm level. In: Boons, Frank, McMeekin, Andrew (eds.) (2019): *Handbook of Sustainable Innovation*, Edward Elgar, Cheltenham

Horbach, Jens; Rammer, Christian (2020): Circular Economy Innovations, Growth and Employment at the Firm Level: Empirical Evidence from Germany. *Journal of Industrial Ecology* 24:615-625, DOI:10.1111/jiec.12977

Horbach, Jens (2020): Impacts of regulation on eco-innovation and job creation. *IZA World of Labor* 2020: 265 DOI: 10.15185/izawol.265.v2

Horbach, Jens; Rammer, Christian (2022): Skills Shortage and Innovation. *Industry and Innovation* 29 (6): 734-759, DOI: 10.1080/13662716.2021.1990021

Horbach, Jens (2022): Determinants of the greening of households in Europe, Research Note on behalf of the European Commission, Brussels, DOI: 10.2767/31379

Losacker, Sebastian; Horbach, Jens; Liefner, Ingo (2022): Geography and the time-to-adoption of green technologies: Insights from Chinese patent licensing data. *Industry and Innovation*. DOI: 10.1080/13662716.2022.2071237

Horbach, Jens; Prokop, Viktor; Stejskal, Jan (2023): Determinants of firms' greenness towards sustainable development - A multi-country analysis. *Business Strategy and the Environment* 32 (6): 2868-2881. DOI: 10.1002/bse.3275

Horbach, Jens (2023): The Importance of regional Spill-over Effects for Eco-Innovations in German Start-ups. In: Diaz Lopez, Fernando J., Mazzanti, Massimiliano, Zoboli, Roberto (eds.): *Handbook of Innovation, Society and the Environment*. Edward Elgar, Cheltenham

Losacker, Sebastian; Hansmeier, Hendrik; Horbach, Jens; Liefner, Ingo (2023): The geography of environmental innovation: A critical review and agenda for future research. *Review of Regional Research*. <https://doi.org/10.1007/s10037-023-00193-6>

Horbach, Jens (2024): Digitalisation and Sustainability Measures at the Firm Level. *Digital Economy and Sustainable Development* 2 (2), <https://doi.org/10.1007/s44265-024-00043-4>

Losacker, Sebastian; Horbach, Jens; Liefner, Ingo (2025): A spatial perspective on green technology adoption in China: Insights from patent licensing data. *Innovation and Development* 2025, Vol. 15 (1): 41–61, <https://doi.org/10.1080/2157930X.2023.2233199>

Horbach, Jens, Rammer, Christian (2025): Climate Change Affectedness and Innovation in Firms. *Research Policy* 54: 105122, <https://doi.org/10.1016/j.respol.2024.105122>

B) Non refereed journals

Klaus, Joachim; Horbach, Jens (1991): Umweltpolitik aus der Sicht der Neuen Politischen Ökonomie. WiSt (Wirtschaftswissenschaftliches Studium), Nr. 8, August 1991, S. 400-407

Horbach, Jens; Junkernheinrich, Martin (1994): Wachstum in den neuen Bundesländern: räumliche Entwicklungspotentiale und –hemmnisse. Beihefte der Konjunkturpolitik, Heft 42, S. 93-129

Horbach, Jens (2000): Die Bedeutung von Fördermaßnahmen für Umweltschutzinvestitionen. UmweltWirtschaftsForum (UWF), 8. Jg., Heft 4/2000, S. 8-10

Horbach, Jens; Bellmann, Lutz; Blien, Uwe; von Hauff, Michael (2000): Umweltschutzsektor - Ein Wachstumsfeld für Beschäftigung? IAB-Materialien, Nr. 4/2000

C) Books

Horbach, Jens (1992): Neue Politische Ökonomie und Umweltpolitik, Campus Verlag, Frankfurt, New York

Halstrick-Schwenk, Marianne; Horbach, Jens; Löbbe, Klaus; Walter, Johann (1994): Die umwelttechnische Industrie in der Bundesrepublik Deutschland, Halle

Horbach, Jens; Joas, Reinhard; Nolte, Rainer; Siegler, Heinz-Jürgen (1995): Wirksamkeit des Investitionsprogramms zur Verminderung von Umweltbelastungen. In: Umweltbundesamt (Hg.), Texte des Umweltbundesamtes, Nr. 6/95, Berlin

Horbach, Jens, Komar, Walter (1996): Umweltschutzdienstleistungen in Ostdeutschland, Forschungsreihe des Instituts für Wirtschaftsforschung Halle, Nr. 2, Februar 1996, Halle

Horbach, Jens; Meißner, Thomas; Rothfels, Jacqueline u.a. (1998): Umweltschutz und Wettbewerbsfähigkeit – Neue außenhandels- und standorttheoretische Ansätze und empirische Evidenz, Schriften des Instituts für Wirtschaftsforschung Halle, Band 2, Nomos Verlag, Baden-Baden

Horbach, Jens (2002) (Hrsg.): Der Umweltschutzsektor und seine Bedeutung für den Arbeitsmarkt, Schriften des Instituts für Wirtschaftsforschung Halle (IWH), Band 10, Nomos Verlag, Baden-Baden

Horbach, Jens; Huber, Joseph, Schulz, Thomas (2003) (Hrsg.): Nachhaltigkeit und Innovation - Rahmenbedingungen für Umweltinnovationen, ökom Verlag, München

Horbach, Jens (2005) (ed.): Indicator Systems for Sustainable Innovation, Series Sustainability and Innovation, Physica, Heidelberg

Horbach, Jens; Reif, Christiane (eds.) (2018): *New Developments in Eco-Innovation Research*, Series Sustainability and Innovation, Springer, Cham

Prokop, Viktor; Stejskal, Jan; Horbach, Jens; Gerstlberger, Wolfgang (eds.) (2022): *Business Models for the Circular Economy*, Series Sustainability and Innovation, Springer, Cham

D) Other Publications

Horbach, Jens; Walthes, Frank (1991): Resonanzanalyse - ein Instrument zur Untersuchung kleinerer Raumeinheiten. Auswirkungen des Europäischen Binnenmarktes auf die Stadt Erlangen. In: Klaus, Joachim (Hg.), *Beiträge zur wirtschaftswissenschaftlichen Forschung* Nr. 3, Nürnberg

Horbach, Jens; Komar, Walter (1994): Wirtschaftsentwicklung und Umweltsituation in den neuen Bundesländern. In: Institut für Wirtschaftsforschung Halle (Hg.), *Wirtschaft im Systemschock, Die schwierige Realität der ostdeutschen Transformation*, Berlin: 129-147

Horbach, Jens; Junkernheinrich, Martin; Löbbe, Klaus (1995): Strukturwandel und Umweltschutz, in: *Handbuch zur Umweltökonomie*. In: Junkernheinrich, Martin; Klemmer, Paul, Wagner, Gerd Rainer (Hg.): *Handbuch zur Umweltökonomie*, Berlin: 235-240

Horbach, Jens (1995): Marktchancen durch Umweltschutz in den neuen Bundesländern. In: Pohl, Rüdiger (Hg.), *Herausforderung Ostdeutschland - Fünf Jahre Währungs-, Wirtschafts- und Sozialunion*, Berlin: 425-435

Horbach, Jens, Ragnitz, Joachim (1995): Wachstum und Schrumpfung: Sektoraler Strukturwandel. In: Pohl, Rüdiger (Hg.), *Herausforderung Ostdeutschland - Fünf Jahre Währungs-, Wirtschafts- und Sozialunion*, Berlin: 239-251

Horbach, Jens; Walter, Johann (1996): The German environment industry - present structure and development. In: OECD (Hg.), *The environment industry*, Paris

Horbach, Jens (1997): Umweltschutz als Determinante von Direktinvestitionen - Eine Analyse anhand der chemischen Industrie und des Maschinenbaus in Deutschlands, IWH - Diskussionspapiere Nr. 59, Halle, September 1997

Horbach, Jens (1999): Umweltschutz und Wettbewerbsfähigkeit. In: Maußner, Alfred; Binder, Klaus Georg (Hg.), *Ökonomie und Ökologie*, Verlag Duncker & Humblot, Berlin, S. 403-431

Horbach, Jens (2002): Determinanten des intersektoralen ökologischen Strukturwandels. In: Horbach, Jens (Hrsg.): Der Umweltschutzsektor und seine Bedeutung für den Arbeitsmarkt, Schriften des Instituts für Wirtschaftsforschung Halle (IWH), Band 10, Nomos Verlag, Baden-Baden: 99-126

Horbach, Jens; Blien, Uwe; von Hauff, Michael (2002): Beschäftigung im Umweltschutzsektor - theoretische Überlegungen und empirische Ergebnisse auf der Basis des IAB-Betriebspanels. In: Horbach, Jens (Hrsg.): Der Umweltschutzsektor und seine Bedeutung für den Arbeitsmarkt, Schriften des Instituts für Wirtschaftsforschung Halle (IWH), Band 10, Nomos Verlag, Baden-Baden: 32-56

Horbach, Jens (2002): Structural Change and Environmental Kuznets Curves, FEEM working papers, no 92.2002, Mailand

Horbach, Jens (2003): Employment and Innovations in the Environmental Sector: Determinants and Econometric Results for Germany, FEEM working papers, no 47.2003, Mailand

Feess, Eberhard; Horbach, Jens (2004): Messung von Beschäftigungswirkungen in EZ-Vorhaben und -strategien, Gutachten im Auftrag der GTZ, Eschborn

Horbach, Jens (2005): Methodological aspects of a system of indicators for sustainable innovation. In: Horbach, Jens (Hg.): Indicator Systems for Sustainable Innovation, Physica Verlag, Heidelberg, New York: 1-19

Fronzel, Manuel; Horbach, Jens; Rennings, Klaus (2004): End-of-Pipe or Cleaner Production? An Empirical Comparison of Environmental Innovation Decisions across OECD Countries, ZEW Discussion Paper No. 04-82, Mannheim

Horbach, Jens (2006): Determinants of Environmental Innovation – New Evidence from German Panel Data Sources, FEEM working papers, no13.2006, Milano, paper presented on the 3rd World Congress of Environmental and Resource Economists in Kyoto in July 2006

Horbach, Jens (2008): The Impact of Innovation Activities on Employment in the Environmental Sector - Empirical Results for Germany at the Firm Level, IAB-Discussion Paper 16/2008, Nürnberg

Horbach, Jens; Blien, Uwe; von Hauff, Michael (2008): Structural Change and Performance of the German Environmental Sector, IAB-Discussion Paper 36/2008, Nürnberg

Feess, Eberhard; Horbach, Jens; Müller, Helge (2009): Minimum Wage Policy in the Kingdom of Saudi Arabia, Final Report for the Ministry of Economy and Planning, Riad

Belin, Jean; Horbach, Jens; Oltra, Vanessa (2011): Determinants and specificities of eco-innovations – An econometric analysis for France and Germany based on the Community

Innovation Survey, Cahiers du GREThA 2011 – 17, paper presented on the 4th World Congress of Environmental and Resource Economists in Montreal in July 2010

Horbach, Jens; Rammer, Christian; Rennings, Klaus (2011): Determinants of Eco-innovations by Type of Environmental Impact - The Role of Regulatory Push/Pull, Technology Push and Market Pull, Zentrum für Europäische Wirtschaftsforschung (ZEW), Discussion Paper No. 11-027, Mannheim

Horbach, Jens; Rennings, Klaus (2012): Environmental Innovation and Employment Dynamics in Different Technology Fields - An Analysis Based on the German Community Innovation Survey 2009, Zentrum für Europäische Wirtschaftsforschung (ZEW), Discussion Paper No. 12-006, Mannheim

Horbach, Jens; Chen, Qian; Rennings, Klaus; Vögele, Stefan (2012): Lead Markets for Clean Coal Technologies: A Case Study for China, Germany, Japan and the USA, Zentrum für Europäische Wirtschaftsforschung (ZEW), Discussion Paper No. 12-063, Mannheim

Horbach, Jens (2013): Do eco-innovations need specific regional characteristics? An econometric analysis for Germany, DRUID conference papers, Barcelona,
<http://druid8.sit.aau.dk/registrant/index/papers>

Horbach, Jens (2014): Determinants of Eco-innovation from a European-wide Perspective: an Analysis based on the Community Innovation Survey (CIS), SEEDS discussion paper 07/2014, Ferrara, <http://www.sustainability-seeds.org/papers/RePec/srt/wpaper/0714.pdf>

Horbach, Jens (2014): Determinants of Labor Shortage - with particular Focus on the German Environmental Sector, IAB-Discussion Paper 22/2014, Nuremberg,
<http://doku.iab.de/discussionpapers/2014/dp2214.pdf>

Rennings, Klaus; Horbach, Jens; Rammer, Christian (2014): Determinanten und Wirkungen von Umweltinnovationen in verschiedenen Anwendungsfeldern – eine Analyse auf Unternehmens-ebene. Wirtschaftspolitische Blätter 2/2014: 357-373

Horbach, Jens; Janser, Markus (2015): The Role of Innovation and Agglomeration for Employment Growth in the Environmental Sector, IAB-Discussion Paper 16/2015, Nürnberg,
<http://doku.iab.de/discussionpapers/2015/dp1615.pdf>

Horbach, Jens; Rennings, Klaus; Sommerfeld, Katrin (2015): Circular Economy and Employment, Gutachten im Auftrag des Zentrums für Europäische Wirtschaftsforschung, Mannheim,
https://sunstiftungsfonds.files.wordpress.com/2015/06/ce_employment_13052015.pdf

Horbach, Jens (2016): The Impact of Resource Efficiency Measures on Performance in Small and Medium-sized Enterprises. Rheinisch-Westfälisches Institut für Wirtschaftsforschung, Ruhr Economic Papers #643, Essen, <http://www.rwi-essen.de/publikationen/ruhr-economic-papers/800/>

Horbach, Jens; Jacob, Jojo (2017): The relevance of personal characteristics and gender diversity for (eco) - innovation activities at the firm-level. Results from a linked employer-employee database in Germany. IAB-Discussion Paper 11/2017, Nürnberg, <http://doku.iab.de/discussionpapers/2017/dp1117.pdf>

Horbach, Jens; Rammer, Christian (2017): Energy Transition in Germany and Regional Spillovers: What Triggers the Diffusion of Renewable Energy in Firms? Zentrum für Europäische Wirtschaftsforschung (ZEW), Discussion Paper No. 17-044, Mannheim, <http://ftp.zew.de/pub/zew-docs/dp/dp17044.pdf>

Horbach, Jens; Rammer, Christian (2019): Employment and Performance Effects of Circular Innovations. ZEW Discussion Paper No.19-016, Mannheim, <http://ftp.zew.de/pub/zew-docs/dp/dp19016.pdf>

Horbach, Jens; Rammer, Christian (2020): Labor Shortage and Innovation. ZEW Discussion Paper No. 20-09, Mannheim, <http://ftp.zew.de/pub/zew-docs/dp/dp20009.pdf>

Horbach, Jens (2020): The Importance of regional Spill-over Effects for Eco-Innovations in German Start-ups. SEEDS Working Paper 16/2020, Ferrara, <http://www.sustainability-seeds.org/index.php/wp>

Losacker, Sebastian; Hansmeier, Hendrik; Horbach, Jens; Liefner, Ingo (2021): The geography of environmental innovation: A critical review and agenda for future research. Lund University. Centre for Innovation Research (CIRCLE). Papers in Innovation Studies no. 2021/15, Lund, https://swopec.hhs.se/lucirc/abs/lucirc2021_015.htm

Horbach, Jens; Rammer, Christian (2022): Climate Change Affectedness and Innovation in German Firms. ZEW Discussion Paper No. 22-008, Mannheim, <https://ftp.zew.de/pub/zew-docs/dp/dp22008.pdf>

Horbach, Jens (2023): Digitalisation and Sustainability Strategies at the Firm Level. Rheinisch-Westfälisches Institut für Wirtschaftsforschung, Ruhr Economic Papers #1001, Essen, https://www.rwi-essen.de/fileadmin/user_upload/RWI/Publikationen/Ruhr_Economic_Papers/REP_23_1001.pdf

Horbach, Jens (2023): Determinants of climate change perception and behaviour of European households, Ruhr Economic Papers #1034, Essen, [https://www.rwi-](https://www.rwi-essen.de/fileadmin/user_upload/RWI/Publikationen/Ruhr_Economic_Papers/REP_23_1034.pdf)

[essen.de/publikationen/wissenschaftlich/ruhr-economic-papers/detail/determinants-of-climate-change-perception-and-behaviour-10034](https://www.ruhr-essen.de/publikationen/wissenschaftlich/ruhr-economic-papers/detail/determinants-of-climate-change-perception-and-behaviour-10034)

Horbach, Jens (2024): Green energy transition in Europe: Importance and behaviour of private households. SEEDS Working Paper 02/2024, July 2024, Ferrara

<https://www.sustainability-seeds.org/papers/RePec/srt/wpaper/0224.pdf>

Horbach, Jens, Rammer, Christian (2024): Energy Price Shocks and Short-term Reactions of Firms: The Case of the German Energy Crisis in 2022. ZEW Discussion Paper No. 24-075, Mannheim.

Horbach, Jens (2025): What Drives Right-Wing Populism in Europe? An Empirical Analysis. Ruhr Economic Papers #1168, Essen, DOI: <https://dx.doi.org/10.4419/96973353>

Contributions to Workshops and Conferences 2005 to 2023

- 18th March 2005: Annual conference of the Schweizerische Gesellschaft für Volkswirtschaft und Statistik in Zürich: „Determinants of Different Abatement Technologies“
- 14th June 2005: International OECD conference in Washington D.C. „Public Environmental Policy and the Private Firm“: „End-of-Pipe or Cleaner Production? An Empirical Comparison of Environmental Innovation Decisions across OECD Countries“
- 22th September 05: Association of professors of business economics „Innovationen für nachhaltige Entwicklung“ in Oldenburg: „End-of-Pipe or Cleaner Production? An Empirical Comparison of Environmental Innovation Decisions across OECD Countries“
- 29th Sept. 2005: Workshop of the European Environment Agency“ in Copenhagen: „Indicators for Sustainable Innovation“
- 20th October 2005: Invitation of the Institute for Prospective Technological Studies (IPTS) of the European Commission in Seville, Spain: “Indicators and quantitative methods for measuring (eco-) innovation and implications for research policy”
- 25th November 2005: Invitation of the Norwegian School of Management (BI) in Oslo: “Environmental Innovation – Results of an International OECD Project”
- 3rd - 7th July 2006: 3rd World Congress of Environmental and Resource Economists in Kyoto: “Determinants of Environmental Innovation - New Evidence from German Panel Data Sources”
- 12th July 2006: Research Conference of the Group on Organizations and the Natural Environment (GRONEN), University of St. Gallen: “Determinants of Environmental Innovation – New Evidence from German Panel Data Sources”
- 21th June 2007: Workshop of the EU - project “Measuring Eco-Innovation” in Brussels: “Propositions for the use of the Community Innovation Survey (CIS) for the analysis of Eco-Innovation”
- 3rd July 2007: Workshop of the Institute for Economic Research (IWH) in Halle: “Determinants of Environmental Innovations”

- 16th July 2007: Invitation of the Faculty of Economics of the University of Augsburg: “Environmental Innovation and Employment”
- 17th January 2008: DIME Workshop on Empirical Analyses of Environmental Innovation, 17th - 18th January 2008, Fraunhofer ISI, Karlsruhe: “Determinants of environmental innovation - Theoretical concepts and empirical evidence from different data sources”
- 8th February 2008: Workshop of the EU - project on “Measuring Eco-Innovation” in Brussels: “Survey analysis using panel data”
- 18th April 2008: Workshop of the Freie Universität Berlin (FU) on “Perspektiven der Ökologischen Industriepolitik”: „Bedeutung (umwelt-) politischer Instrumente für Entstehung und Diffusion von Umweltinnovationen aus theoretischer und empirischer Sicht“, financed by the German Federal Environmental Agency
- 12th Sept. 2008: DIME International Conference “Innovation, sustainability and policy”, 11th - 13th September 2008 in Bordeaux: “The Impact of Innovation Activities on Employment in the Environmental Sector - Empirical Results for Germany at the Firm Level”
- 25th Sept. 2008: Annual conference 2008 of the Verein für Socialpolitik, 23th to 26th September 2008 in Graz: “The Impact of Innovation Activities on Employment in the Environmental Sector - Empirical Results for Germany at the Firm Level”
- 18th April 2009: Annual conference of the Arbeitskreis Politische Ökonomie from 17th to 19th April in Mainz: “The Impact of Innovation Activities on Employment in the Environmental Sector – Empirical Results for Germany at the Firm Level”
- 11th May 2009: Workshop of the University of Utrecht on “Environmental Innovation, Industrial Dynamics and Entrepreneurship” from 11th to 12th May 2009 in Utrecht: “Determinants and specificities of eco-innovations – An econometric analysis for France and Germany based on the Community Innovation Survey”
- 30th October 2009: Presentation in the Ministry of Economy and Planning in Riad: “Economic effects of the introduction of minimum wages in Saudi Arabia”

- 8th December 2009: Bund-Länder-Workshop „Umweltinnovationen fördern und umsetzen“ in Berlin: „Umweltinnovationen messbar machen: Aktuelle Forschungsergebnisse“
- 18th May 2010: Workshop of the Nottingham University Business School: “Determinants of different types of eco-Innovations – regulatory push/pull versus market pull factors”
- 18th June 2010: Expert at the OECD Workshop on “Selected Eco-Innovations” in Paris
- 1st July 2010: 4th World Congress of Environmental and Resource Economists in Montreal: “Determinants and Specificities of Eco-innovations - An Econometric Analysis for the French and German Industry based on the Community Innovation Survey”
- 6th October 2010: Workshop of the Centre for European Economic Research (ZEW) in Mannheim on “Regulation and Management of Innovations Towards Sustainable Development”: „Determinants of Eco-innovations in different technology areas - Results for Germany based on the Community Innovation Survey 2009“
- 13th May 2011: Conference of economists at universities of applied sciences on „Ökonomie der Nachhaltigkeit“ in Jena from 11th to 13rd May 2011: “Determinants of Eco-innovations by Type of Environmental Impact - Results for Germany based on the Community Innovation Survey 2009”
- 17th June 2011: 9th International Conference of the European Society for Ecological Economics in Istanbul, June 14-17, 2011: “Determinants of Eco-innovations by Type of Environmental Impact - Results for Germany based on the Community Innovation Survey 2009”
- 1st July 2011: 18th Annual Conference of the European Association of Environmental and Resource Economists in Rome, June 29th - July 2th, 2011: “Determinants of Eco-innovations by Type of Environmental Impact - Results for Germany based on the Community Innovation Survey 2009”

- 22th March 2012: Workshop of the Centre for European Economic Research (ZEW) in Mannheim on “Lead Market-Strategies: First Mover, Early Follower und Late Follower“: „Lead Markets for Clean Coal Technologies: A Case Study for China, Germany, Japan and the USA“
- 26th April 2012: Invitation as expert to an international Workshop of the German Institute for Economic Research in Berlin: “Methods to estimate the gross employment effects of environmental protection”
- 10th May 2012: Moderation of the workshop „Wirtschaftspolitik für mehr Innovationen - Instrumente zwischen notwendiger Lenkung und Freiheit“, invitation of the Heinrich-Böll-Stiftung in Berlin
- 28th June 2012: 19th Annual Conference of the European Association of Environmental and Resource Economists in Prague, June 27th - June 30th, 2012: “Environmental Innovation and Employment Dynamics in different Technology Fields - An Analysis based on the German Community Innovation Survey 2009”
- 3rd/4th Oct. 2012: Lectures at the conference of the Fundação Dom Cabral in Belo Horizonte (Brazil): “Determinants of Eco-innovations by Type of Environmental Impact - Results for Germany based on the Community Innovation Survey 2009” and „Policies and Ways to stimulate Eco-Innovation – A European and German Perspective” (as key note speaker)
- 11th December 2012: Conference of the Konrad-Adenauer-Stiftung in London: „The importance of green jobs for sustainable growth“
- 14th December 2012: Workshop of the German Ministry for Environment on „Globale Diffusion von Umweltinnovationen“: „Energieeffiziente Kohlekraftwerke – Eine Fallstudie für China, Deutschland, Japan und die USA“ in Berlin
- 21th January 2013: Workshop of the Università di Ferrara on Eco-Innovation. “Eco-Innovation and Employment: Results for Germany at the firm level”
- 4th March 2013: Expert invitation to a workshop of the European Commission DG Research and Innovation, Unit C1 Innovation Policy on "The impact of regulation on innovation" in Brussels
- 31th May 2013: Workshop of the European Journalism Centre “Eco-innovation in the financial crisis”: “The importance of eco-innovation for employment and performance” in Brussels

- 17th June 2013: 35th DRUID Celebration Conference 2013 in Barcelona, June 17-19: “Do eco-innovations need specific regional characteristics? An econometric analysis for Germany Barcelona”
- 27th June 2013: 6th Summer Conference in Regional Science of the German speaking section of the European Regional Science Association in Dortmund, June 27-28, 2013: “Do eco-innovations need specific regional characteristics? An econometric analysis for Germany”
- 5th Sept. 2013: Annual conference of the Verein für Socialpolitik in Düsseldorf, September 4-7, 2013: “Do eco-innovations need specific regional characteristics? An econometric analysis for Germany”
- 25th Sept. 2013: International Workshop on Eco-Innovation at the University of Ferrara, September 24-25, 2013, Ferrara: “Do eco-innovations need specific regional characteristics? An econometric analysis for Germany”
- 27th Sept. 2013: Conference of the Centre for European Economic Research (ZEW) in Mannheim on “Der Weltmarkt für Umwelttechnologien: Brauchen wir eine neue Vorreiterpolitik”: „Energieeffiziente Kohlekraftwerke”
- 15th January 2014: Seminar at the University of Padova: “Determinants of eco-innovation from a European-wide perspective – an analysis based on the Community Innovation Survey (CIS)”
- 28th February 2014: Seminar of the Gesellschaft für Regionalforschung in Matri: „Determinants of Labor Shortage - with particular Focus on the German Environmental Sector”
- 15th May 2014 Workshop at the University College London (UCL) on “Finance and the Environment”: “Importance of subsidies for different eco-innovation fields and countries”, London
- 13th August 2014 Conference of the International Society for Ecological Economics (ISEE) in Reykjavik: “Determinants of eco-innovation from a European-wide perspective – an analysis based on the Community Innovation Survey (CIS)”
- 24th February 2015 Seminar of the Gesellschaft für Regionalforschung in Igls: Determinants of Employment Development in the Environmental Sector
- 25th June 2015 21th Annual Conference of the European Association of Environmental and Resource Economists in Helsinki, June 24th - June 27th, 2015: The Role of

	Innovation and Agglomeration for Employment Growth in the German Environmental Sector
27 th August 2015	3 rd IZA Workshop on Labor Market Effects of Environmental Policies in Berlin: “Circular Economy: Good news for the Environment and the Labor Market?”
10 th December 2015	Seminar at Sciences Politiques/SKEMA Business School in Nice: “The Role of Innovation and Agglomeration for Employment Growth in the German Environmental Sector”
15 th January 2016	Seminar at Grenoble Ecole de Management: “The Role of Innovation and Agglomeration for Employment Growth in the German Environmental Sector”
23 th June 2016	Eurkind GCW 2016 Conference in Valencia, June 22-24 2016: "The impact of eco-innovations on performance in small and medium enterprises"
6 th September 2016	Annual conference of the Verein für Socialpolitik “The Role of Innovation and Agglomeration for Employment Growth in the German Environmental Sector” in Augsburg
24 th May 2017	Presentation of the chapter "Determinants of eco-innovation at the firm level" prepared for "Frank Boons und Andrew McMeekin (2018): Handbook of Sustainable Innovation (Edward Elgar). Workshops of all authors of the handbook in Manchester, Great Britain
6 th July 2017	Keynote speech on the “Determinants and effects of eco-innovations”, KID Summer School (Knowledge Dynamics, Industry Evolution, Economic Development) at the University of Nice, France
2 nd February 2018	GEOINNO Conference in Barcelona, Barcelona January 31 th to February, 2 nd 2018: "Energy Turnaround in German Firms and regional Spillover Effects: What triggers the Diffusion of Renewable Energy?"
20 th September 2018	"The importance of regional factors for the realization of eco-innovations" at the Workshop on the "The geography of environment, resilience and innovation" September 20 th /21 th 2018 at the University of Turin, Italy

- 08th February 2019 “Performance and Employment Effects of Circular Economy Innovations”. Seventh Annual Conference of the Italian Association of Environmental and Resource Economists (IAERE), 7th – 8th February 2019 in Udine
- 14th May 2019 Keynote speech on the "Performance and Employment Effects of Circular Economy Innovations" at the EU Social Situation Monitor (SSM) research seminar on "Socially fair transition to a green economy" organized by the European Commission and the London School of Economics in Brussels
- 3rd June 2019 "Performance and Employment Effects of Circular Economy Innovations" Seminar “Economics“ at the University of Augsburg
- 17th December 2019 Keynote on “Circular Economy Innovations, Growth and Employment at the Firm Level: Empirical Evidence from Germany“, Circular Economy Workshop at the University of Ferrara
- 30th January 2020 The Importance of Regional Spill-over Effects for Eco-Innovations in German Start-ups. 5th Geography of Innovation Conference, Stavanger, 29th-31th January 2020, Norway
- 9th October 2020 BayWiss Herbstakademie des Promotionsverbundkollegs Ökonomie. Online-Vortrag zum Thema „Fachkräftemangel als Innovationshemmnis“
- 23th June 2021: Organisation des 2. BayWiss Netzwerktreffens (online) des Promotionsverbundkollegs Ökonomie, eigener Kurzbeitrag zum Thema „Regionale Spill-over Effekte und Innovation“
- 23th September 2021 Vortrag auf einem internationalen Workshop der University of Pardubice zur Circular Economy: “The Importance of Regional Spill-over Effects for Eco-Innovations in German Start-ups”
- 30th September 2022 Keynote on “Climate Change Affectedness and Innovation in German Firms“, Circular Economy Workshop at the University of Ferrara
- 25th November 2022: Keynote on “Climate Change Affectedness and Innovation in German Firms“, Research Seminar at the University of Pardubice
- 17th January 2023 Keynote on “Skills Shortage and Innovation“, Research Seminar of the Social Situation Monitor, European Commission, DG Employment, Brussels

- 21th April 2023 Keynote on “Performance and employment effects of eco-innovation”, Workshop on Eco-innovation, Circular Economy, and Firm Performance at the University of Barcelona
- 1st March 2024 Speech on "Climate Change Affectedness and Innovation in German Firms" at a research seminar at Sciences Politiques Toulouse
- 16th May 2024 Speech on "Climate Change Affectedness and Innovation in German Firms" at a research seminar at the University of Barcelona
- 24th September 2024 Speech on „Energy crisis and short-time reactions of firms” at a research seminar at the University of Pardubice
- 28th November 2024 Speech on “Energy Price Shock and Short-term Reaction of Firms: The Case of the German Energy Crisis in 2022” at the 2nd workshop of the Eco-innovation Society at HEC Paris (online)
- 4th December 2024 Keynote speech on “Climate Change Affectedness and Innovation in German Firms” at a research seminar of the Institute for Public Policies and Goods (IPP) in Madrid
- 2nd June 2025 Determinanten von Umweltinnovationen und die Rolle von Fördermaßnahmen. Vortrag auf Einladung des Instituts für Weltwirtschaft Kiel und des Bundesministeriums für Forschung, Technologie und Raumfahrt (BMFTR) in Berlin
- 3rd October 2025 Speech on „Determinants of Eco-innovation: Stylized facts and new results based on recent CIS waves” at a research seminar at the University of Pardubice