



## CURRICULUM VITAE

### PERSONAL DATA

Date/Place of Birth: 7. September 1971, Rothenburg ob der Tauber  
Marital status: married w Claudia Löschel, children: Tilman (1999), Benno (2001), Ida (2004), Martha (2009)  
Address: Am Stadtgraben 9, D-48143 Münster, Tel.: ++49 176 - 183 00202, loeschel@uni-muenster.de

### CURRENT POSITIONS

since 2014 Professor of Economics (W3), esp. Energy & Resource Economics and Director of the Centre of Applied Economic Research Münster (CAWM), **University of Münster**  
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**

### RESEARCH INTERESTS

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

### ACADEMIC IMPACT

Google Scholar: 5419 citations, h-Index = 38 (1.9.2019)  
Scopus: 85 papers, 1858 citations, h-Index = 24 (1.9.2019)  
Web of Science: 66 papers, 1535 citations, h-Index = 22 (1.9.2019)

### PROFESSIONAL EXPERIENCE

since 2018 Advisor to **Fraunhofer Center for Economics of Materials**, Halle, Germany  
since 2017 Co-Director, **Australia-Germany Energy Transition Research Hub**  
since 2015 Advisor to **Aurora Energy Research** Limited, Oxford, UK  
since 2013 Visiting Chair Professor, **University of International Business and Economics (UIBE)**, Beijing  
2015-2019 Academic Head of the dual degree **Master Programme "Energy Economics"**, RWTH Aachen and University of Münster  
2015-2017 Excellency Professor of the **State Council, PR China** (High-End Foreign Expert of the State Administration of Foreign Experts Affairs SAFEA)  
11/2010-6/2014 Professor of Economics (W3), esp. Environmental & Resource Economics, **University of Heidelberg**  
8/2007-6/2014 Head of the Research Department "Environmental and Resource Economics, Environmental Management" at **Centre for European Economic Research (ZEW)** (~ 22 full time researcher)  
10/2005-7/2007 Scientific Officer, **European Commission**, DG Joint Research Centre, Institute for Prospective Technological Studies (IPTS), Seville, Spain  
12/1999-08/2005 Senior Researcher (since 2005 with tenure) at **ZEW**

### 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)  
9/2003-12/2003 Studies in the "Program on Negotiation" at **Massachusetts Institute of Technology (MIT)** and Fletcher School of Diplomacy, **Tufts University**, Cambridge (Mass.), USA  
11/1992-10/1998 Diploma in Economics (Diplom-Volkswirt), **University of Erlangen-Nuremberg**, Germany  
9/1994-5/1995 M.A., Economics, **Wayne State University**, Detroit, USA  
8/1993-9/1993 Studies in Economics, University of California, Los Angeles (**UCLA**), USA

## RESEARCH VISITS AND AFFILIATIONS

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6/2019-8/2019	Visiting Fellow, <b>Australian National University (ANU)</b> , Canberra, Australia
4/2017-7/2017	Oxford Martin Visiting Fellow, <b>Oxford University</b>
since 2016	CESifo Research Network Fellow, <b>CESifo</b> , Munich
since 2014	Research Associate, <b>ZEW</b> , Mannheim
since 2010	Research Associate, CCEP, <b>Australian National University (ANU)</b> , Canberra, Australia
4/2013	Senior Visiting Scholar, <b>Tsinghua University</b> , Beijing, China
9/2015, 10/2011	Visiting Researcher, Crawford School of Economics & Government,
10-11/2010	<b>Australian National University (ANU)</b> , Canberra, Australia
09/2010	Economist Visitors Programme, <b>European Commission</b> (DG Enterprise & Industry)
9/2006-8/2007	Visiting Professor in Economics, <b>University Pablo de Olavide</b> , Seville, Spain
5/2005-7/2005	Visiting Scholar, Department of Economics, <b>Stanford University</b> , Stanford, CA, USA
5/2004	Visiting Scholar, Joint Program on the Science and Policy of Global Change,
8-12/2003	<b>Massachusetts Institute of Technology (MIT)</b> , Cambridge (Mass.), USA

## AWARDS AND HONOURS

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2019	<b>ACT-ANU Energy Expert-in-Residence</b> , Australian Capital Territory (ACT) and Australian National University (ANU), Canberra
since 2016	Elected Member of the <b>National Academy of Science and Engineering</b> (acatech)
2013, '14, '17, '19	Among the 50 most influential economists in Germany in the <b>Frankfurter Allgemeine Zeitung (F.A.Z.) Ranking of Economists</b>
2017	<b>Handelsblatt ranking of German speaking economists</b> Top-100 Economists (current research)
2010, 2011	Scholarship of the <b>German Academic Exchange Service (DAAD)</b> for research visit at ANU
2005	Scholarship of <b>Fritz Thyssen Foundation</b> for research visit at Stanford University
2004	Award of the <b>Karin Islinger Foundation</b> for doctoral thesis, University of Mannheim
2000	German Student Research Prize (First Prize) of the <b>Körber Foundation</b> for diploma thesis on privatizing old age security
1998-2001	Scholarship of the <b>German Science Foundation</b> for doctoral studies at the University of Heidelberg and the University of Mannheim
1998	Award for best diploma examination, <b>Wiso-Fakultätsbund Nuremberg</b>
1995-1998	Scholarship of the <b>Friedrich Naumann Foundation</b>

## OTHER ACADEMIC ACTIVITIES

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since 2019	Member of the Scientific Advisory Board, <b>Deutsches Institut für Wirtschaftsforschung (DIW)</b>
since 2019	Member of the International Advisory Board, <b>Wuppertal Institut</b>
since 2019	Member of the Editorial Board " <b>Perspektiven der Wirtschaftspolitik</b> " (Perspectives in Economic Policy) published by the association of German economists
since 2018	Member of the <b>German-Japanese Energy Transition Council (GJETC)</b>
since 2018	Member of the <b>Senate of the University of Münster</b>
since 2018	Associate Editor of the Journal " <b>Resource and Energy Economics</b> "
since 2018	Lead author, Sixth assessment report, Working Group III (Chapter 6 Energy Systems), <b>Intergovernmental Panel on Climate Change (IPCC)</b>
since 2017	Member of the <b>Scientific Commission of the State of Lower Saxony</b>
since 2017	Member of the Editorial Board of the Journal " <b>The Energy Journal</b> "
since 2017	Energy Industry program Charter Fellow, RUDN University Moscow
since 2016	Member of the Editorial Board of the Journal " <b>Climate Policy</b> "
since 2016	Speaker of the Section Economics, School of Business and Economics, <b>University of Münster</b>
since 2016	Member of the Advisory Board MEET Batterieforschungszentrum ( <b>Münster Electrochemical Energy Technology</b> ) at the University of Münster
since 2013	Member of the Board of Trustees of the Academy Project "Energy systems of the future", <b>German Academies of Sciences</b> (Leopoldina, Union, acatech)
since 2013	Member of the Working Group for Ecological Affairs of the <b>German Bishops' Conference</b>
2014-2016	Member of the External Advisory Board of the <b>DFG Exzellenz Cluster</b> "Integrated Climate System Analysis and Prediction" (CliSAP) at the Universität Hamburg
2014-2016	Lead Author, <b>Global Environment Outlook (GEO-6)</b> of the UN Environment Programme (UNEP) (Regional Assessment: Climate and Energy in Europe)

2010-2014	Lead author, Fifth assessment report, Working group III (Chapter 6 Assessing Transformation Pathways), <b>Intergovernmental Panel on Climate Change (IPCC)</b>
2012	Member of the <b>German delegation</b> at the <b>International Maritime Organisation MEPC 64</b> meeting in London, UK
2007	Member of the <b>Delegation of the European Commission</b> at the <b>UNFCCC Climate Conference</b> 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 <b>Standing Research Committee on Environmental and Resource Economics</b> , 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) <b>Energy Modeling Forum (EMF)</b> , Stanford University

#### **EXPERT REVIEWS, EVALUATION COMMITTEES AND JURY PARTICIPATION**

2019	Scientific Expert, <b>State Parliament of North Rhine-Westphalia's</b> committee on Europe and International Affairs, " European Climate Policy: Giving CO2 a prize"
2014 - 2019	Scientific Expert, <b>German Parliament's</b> committee on Economics and Energy, annual briefing on "Status of the Energy Transformation"
2018	Scientific Expert, <b>German Governments's</b> committee on “Growth, Structural Change and Employment” (Coal Exit Commission), briefing on "Impacts of a coal phase out”
2017	Scientific Expert, <b>German Parliament's</b> 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 <b>German Science Foundation (DFG)</b>
2011	Member of the Evaluation Committee of the <b>German Science Council (Wissenschaftsrat)</b> for the evaluation of the Wuppertal Institute
2008	Scientific Expert, <b>European Parliament's</b> 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 <b>Wegener Center for Climate and Global Change</b> , Graz University
2005-2007	Expert reviewer for 4th Assessment Report (AR4), Working Group II (Impacts, Adaptation and Vulnerability) and Working Group III (Mitigation), <b>IPCC</b>

**National Academy of Science and Engineering (acatech)** (2017, 2019), **German Science Foundation (DFG)** (2011, 2012, 2016, 2017), **German Academic Exchange Service (DAAD)** (2017), Reviewer for the **German National Merit Foundation** (2016, 2018), **Austrian Academy of Sciences** (2016), **Centre for Energy and Climate Protection of the State of Schleswig-Holstein** (2013-2016), **Swiss National Science Foundation** (2014), **Mercator Foundation** (2013, 2018), **Fritz-Thyssen-Stiftung** (2013), **German Federal Environmental Foundation** (2012), **Alexander von Humboldt-Foundation** (since 2011), **Research Council K.U. Leuven** (2011), **Research Foundation Flanders (FWO)** (2011), **Research Council of Norway** (2007, 2008, 2010, 2011), **Austrian Climate and Energy Fund** (2010, 2011), **Federal Ministry of Education and Research (BMBF)** (2010), **Finish Academy of Sciences** (2008), **Economic & Social Research Council (ESRC)** (2007), **European Commission (FP6)**, 2003, 2004)

#### EDITORSHIPS OF JOURNAL SPECIAL ISSUES

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1. Energy Demand in Emerging and Developing Economies: Measurement, Policy Interventions and Evaluation, Editor of the Special Issue of **China Economic Review** (with C. Wei, S. Managi), ongoing.
2. Emissions trading systems for global low carbon energy and economic transformation, Editor of the Special Issue of **Applied Energy** (with X. Zhang, J. Lewis, D. Zhang), ongoing.
3. Facing the Energy Transition , Editor of the Special Issue of **Economics of Energy & Environmental Policy** (with M.T. Costa-Campi and E. Trujillo-Baute), 8(2), 2019.
4. Rent Advances in the Economic Analysis of Energy Demand – Insights for Industries and Households, Editor of the Special Issue of **Resource and Energy Economics** (with Shunsuke Managi), 56, 2019.
5. Frontiers in the Economics of Energy, Editor of the Special Issue of **Energy Economics** (with C. de Miguel, M. FilippDeini and X. Labandeira), 68, Supplement 1, 2017.
6. Frontiers in the Economics of Energy Efficiency, Editor of the Special Issue of **Energy Economics** (with C. de Miguel and X. Labandeira) 52 (Supplement 1), 2015.
7. The rise of emissions trading in Asia, Editor of the Special Issue of **Energy Policy** (with F. Jotzo) 75, 2014.
8. New Directions in the Voluntary Provision of Public Goods, Editor of the Special Issue of **Economica** (with D. Rübbelke), 81(322), 2014.
9. Energy Security - Concepts and Indicators, Editor of the Special Issue of **Energy Policy** (with U. Moslener and D. Rübbelke), 38(4), 2010.

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

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10. 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** (forthcoming)
11. 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
12. 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.
13. 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.
14. Recent Advances in Energy Demand Analysis – Insights for Industry and Households (with S. Managi), **Resource and Energy Economics**, 56, 1-5, 2019.
15. Processing trade, foreign outsourcing and carbon emissions in China (with J. Pei, J. Xue, G. Peters, Z. Zhao and Q. Chen), **Structural Change and Economic Dynamics** , 49, 1-12, 2019.
16. The Impact of a Feed-In Tariff on Wind Power Development in Germany (with C. Hitaj), **Resource and Energy Economics**, 57, 18-35, 2019.
17. Research trends in environmental and resource economics: Insights from four decades of JEEM (with R. Kube, H. Mertens und T. Requate), **Journal of Environmental Economics and Management**, 92, 433-464, 2018.
18. Reducing CO2 from Cars in the European Union (with S. Paltsev, Y.-H. Chen, V. Karplus, P. Kishimoto, J. Reilly, K. von Graevenitz and S. Koesler), **Transportation**, 45(2), 573-595, 2018.
19. China's emissions trading takes steps toward big ambitions (with F. Jotzo, V. Karplus, M. Grubb, K. Neuhoff, L. Wu, F. Teng), **Nature Climate Change**, 8(4), 265-267, 2018.
20. 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.
21. Establishing an expert advisory commission to assist the G20's energy transformation processes (with P. Großkurth et al.), **Economics E-Journal**, 12, 1–12, 2018.
22. Define limits for temperature overshoot targets (with O. Geden), **Nature Geoscience**, 10, 881-882, 2017.
23. The Effect of Globalisation on Energy Footprints: Disentangling the Links of Global Value Chains (with O. Kaltenecker and F. Pothner), **Energy Economics**, 68(S1), 148-168, 2017.
24. Informing the Transitions towards Low-carbon Societies – Editorial, **Energy Economics** (with C. de Miguel, M. Filippini and X. Labandeira), 68 (Suppl. 1), 1-3, 2017.
25. Casting Light on Energy Efficiency – Evidence on Consumer Inattention and Imperfect Information (mit M. Rodemeier und R. Kube), **Applied Economics Letters**, 24(21), 1575–1587, 2017.
26. Improving Voluntary Public Good Provision through a Non-Governmental, Endogenous Matching Mechanism: Experimental Evidence" (with C. Reif and D. Rübbelke), **Environmental and Resource Economics**, 67, 559–589, 2017.
27. Revealed preferences for voluntary climate change mitigation when the purely individual perspective is relaxed – evidence from a framed field experiment (with B. Sturm and R. Uehleke), **Journal of Behavioral and Experimental Economics**, 67, 149-160, 2017.
28. Energy Costs in Germany and Europe: An Assessment Based on a (Total Real Unit) Energy Cost Accounting Framework (with O. Kaltenecker, M. Baikowski and J. Lingens), **Energy Policy**, 104, 419-430, 2017.

29. The long-term impact of matching and rebate subsidies when public goods are impure: Field experimental evidence from carbon offsetting market (with M. Kesternich and D. Römer), **Journal of Public Economics**, 137, 70-78, 2016.
30. Pro-Environmental Households and Energy Efficiency in Spain (with A. Ramos and X. Labandeira), **Environmental and Resource Economics**, 63, 367–393, 2016.
31. Peeling the onion: Analyzing aggregate, national and sectoral energy intensity in the European Union (with F. Pothen and M. Schymura), **Energy Economics** 52 (Suppl. 1), S63-S75, 2015.
32. Frontiers in the economics of energy efficiency (with C. de Miguel and X. Labandeira), **Energy Economics** 52 (Suppl. 1), S1-S4, 2015.
33. Do Chinese individuals believe in climate change and why? An econometric analysis (with J. Dai, M. Kesternich and A. Ziegler), **Ecological Economics** 116, 310-321, 2015.
34. Invention in Energy Technologies: Comparing Energy Efficiency and Renewable Energy Inventions at the Firm Level, (with S. Rexhäuser), **Energy Policy** 83, 206-217, 2015.
35. On the Provision of Public Goods with Probabilistic and Ambiguous Thresholds (with A. Dannenberg, G. Paolacci, C. Reif and A. Tavoni), **Environmental and Resource Economics**, 61(3), 365-383, 2015.
36. Energy-saving and emission-abatement potential of Chinese coal-fired power enterprise: a non-parametric analysis (with C. Wei and B. Liu), **Energy Economics**, **Energy Economics** 49, 33–43, 2015
37. Emissions trading in China: emerging experiences & international lessons (with F. Jotzo), **Energy Policy**, 2014.
38. Designing an EU Energy and Climate Policy Portfolio for 2030: Implications of Overlapping Regulation under Different Levels of Electricity Demand (with F. Flues, B. Lutz und O. Schenker), **Energy Policy** 75, 91-99, 2014
39. Designing an Emissions Trading Scheme for China - An Up-to-date Climate Policy Assessment (with M. Hübler and S. Voigt), **Energy Policy** 75, 57-72, 2014.
40. The voluntary provision of international public goods – an overview (with D. Rübhelke), **Economica**, 81(322), 195-204, 2014.
41. The New IPCC Scenarios: What Does the Two-Degree Target Cost? - Die neuen Szenarien des IPCC: Was kostet das Zwei-Grad-Ziel?, **GAIA** 23/2, 73, 2014.
42. Incidence and Extent of Co-Authorship in Environmental and Resource Economics: Evidence from the Journal of Environmental Economics and Management (with M. Schymura), **Scientometrics**, 99, 631-661, 2014.
43. Did Fukushima Matter? Empirical Evidence of the Demand for Climate Protection in Germany (with C. Gallier and B. Sturm), **Applied Economics Letters**, 21(12), 846-851, 2014.
44. An empirical analysis of the CO<sub>2</sub> shadow price in Chinese thermal power enterprises (with C. Wei and B. Liu), **Energy Economics**, 40, 22-31, 2013.
45. The Demand for Climate Protection - Empirical Evidence from Germany (with B. Sturm und C. Vogt), **Economics Letters**, 415–418, 2013.
46. The EU decarbonisation roadmap 2050: What way to walk? (with M. Hübler), **Energy Policy**, 55, 190–207, 2013.
47. A new robustness analysis for climate policy evaluations: A CGE Application for the EU 2020 Targets (with C. Hermeling und T. Mennel), **Energy Policy**, 55, 27-35, 2013.
48. The Value-Added of Sectoral Disaggregation: Implications on Competitive Consequences of Climate Change Policies (with V. Alexeeva, C. Böhringer und Sebastian Voigt), **Energy Economics**, S127-S142, 2012.
49. Inequality, Communication and the Avoidance of Disastrous Climate Change (with A. Tavoni, A. Dannenberg and G. Kallis), **Proceedings of the National Academy of Sciences (PNAS)**, 108(29), 11825-11829, 2011.
50. On the Self-interested Use of Equity in International Climate Negotiations (with Andreas Lange, Carsten Vogt and Andreas Ziegler), **European Economic Review**, 54(3), 359-375, 2010
51. Auctioning of CO<sub>2</sub> Emission Allowances in Phase 3 of the EU Emissions Trading Scheme (with E. Benz and B. Sturm), **Climate Policy**, 10 (2010), 705–718.
52. Paying the Piper and Calling the Tune? A Meta-Regression Analysis of the Double-Dividend Hypothesis (with N. Anger und C. Böhringer), **Ecological Economics**, 69(7), 1495-1502, 2010.
53. Indicators of Energy Security in Industrialised Countries (with U. Moslener and D. Rübhelke), **Energy Policy**, 38(4), 1665-1671, 2010.
54. Energy security—concepts and indicators - Editorial (with U. Moslener and D. Rübhelke), **Energy Policy**, 38(4), 1607-1608, 2010.
55. EU Climate Policy Up to 2020: An Economic Impact Assessment (with C. Böhringer, U. Moslener and T. F. Rutherford), **Energy Economics**, 31(S2), 295-305, 2009.
56. Oil and Unemployment in Germany (with U. Oberndorfer), **Jahrbücher für Nationalökonomie und Statistik**, 229(2+3), 146-162, 2009.
57. Technological Uncertainty and Cost-Effectiveness of CO<sub>2</sub> Emission Reduction (with V. Otto), **Energy Economics**, SUPPL 1, 4-17, 2009.
58. A Symmetric Input-Output Table for EU 27: Latest Progress (with J. Rueda-Cantuche, J. Beutel, F. Neuwahl and I. Mongelli), **Economic Systems Research**, 21(1), 59-79, 2009.
59. Environmental Taxation and Induced Structural Change in an Open Economy: The Role of Market Structure (with C. Böhringer and H. Welsch), **German Economic Review**, 9(1), 17-40, 2008.

60. Employment impacts of EU biofuels policy: combining BU technology information and sectoral market simulations in an IO framework (with F. Neuwahl, I. Mongelli, L. Delgado), **Ecological Economics**, 447-460, 2008.
61. Directed technical change and differentiation of climate policy (with V.M. Otto and J. Reilly), **Energy Economics**, 30 (6), 2855-2878, 2008.
62. Extending Working Hours: Why not work 42 Hours rather than 38? – A CGE Analysis for Germany (with K. Conrad and H. Koschel), **Empirica**, 35, 255-266, 2008.
63. Climate Policy Induced Investments in Developing Countries: The Implications of Investment Risks (with C. Böhringer), **The World Economy**, 31(3), 367-392, 2008.
64. Energy Biased Technical Change - A CGE Analysis (with V. Otto and R. Dellink), **Resource and Energy Economics**, 29(2), 137-158, 2007.
65. 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.
66. Promoting Renewable Energy in Europe – A Hybrid CGE Approach (with C. Böhringer), **The Energy Journal**, Hybrid Modelling of Energy-Environment Policies: Reconciling Bottom-up and Top-down, 123 – 138, 2006.
67. Computable General Equilibrium Models for Sustainability Impact Assessment: Status Quo and Prospects (with C. Böhringer), **Ecological Economics**, 60(1), 49-64, 2006.
68. Efficiency Gains from “What”-Flexibility in Climate Policy - An Integrated CGE Assessment (with C. Böhringer and T. F. Rutherford), **The Energy Journal**, Multi-Greenhouse Gas Mitigation and Climate Policy, 405-424, 2006.
69. Recycling of Eco-Taxes, Labor Market Effects and the True Cost of Labor- A CGE Analysis (with K. Conrad), **Journal of Applied Economics**, 8(2), 259-278, 2005.
70. Climate Policy Beyond Kyoto: Quo Vadis? A Computable General Equilibrium Analysis based on Expert Judgements (with C. Böhringer), **Kyklos**, 58(4), 467-493, 2005.
71. Assessing Emission Allocation in Europe: An Interactive Simulation Approach (with C. Böhringer, T. Hoffmann, A. Lange and U. Moslener), **The Energy Journal**, 26(4), 1-22, 2005.
72. Market Power and Hot Air in International Emission Trading: The Impacts of U.S. Withdrawal from the Kyoto Protocol (with C. Böhringer), **Applied Economics**, 35(6), 651-664, 2003.
73. Carbon Taxes and Joint Implementation - An Applied General Equilibrium Analysis for Germany and India (with C. Böhringer and K. Conrad), **Environmental and Resource Economics**, 24(1), 49-76, 2003.
74. Technological Change in Economic Models of Environmental Policy: A Survey, **Ecological Economics**, 43(2-3), 105-126, 2002.
75. The Economic and Environmental Implications of the US Repudiation of the Kyoto Protocol and the Subsequent Deals in Bonn and Marrakech (with Z.X. Zhang), **Review of World Economics**, 138(4), 711-746, 2002.

Münster, September 2019