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International Institute for Applied Systems Analysis (IIASA)
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EDUCATION

- 2008 Ph.D. Science, Technology and Society, Utrecht University, The Netherlands
2003 M.Sc. Environmental Science, Utrecht University, The Netherlands

PROFESSIONAL APPOINTMENTS

- 2021 – present Research Group Leader, Sustainable Service Systems, International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria
2018 – present Senior Research Scholar, International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria
2011 – 2017 Project Scientist, National Center for Atmospheric Research (NCAR), Climate and Global Dynamics Laboratory, Boulder, CO, USA
2017 Research Scientist, Boston University, Pardee Center for the Study of the Longer-Range Future, Boston, MA, USA
2016 Visiting Research Scholar, Boston University, Pardee Center for the Study of the Longer-Range Future, Boston, MA, USA
2008 – 2011 Policy Researcher, Netherlands Environmental Assessment Agency (PBL), Climate, Air and Energy Division, Bilthoven, The Netherlands
2004 – 2008 PhD Researcher, Utrecht University, Dept of Science, Technology and Society, Utrecht, The Netherlands
2007 Visiting Researcher, Indian Institute of Science (IISc), Bangalore, India
2007 Visiting Researcher, Indira Ghandi Institute for Development Research (IGIDR), Mumbai, India
2005 Visiting Researcher, Chalmers University, Gothenburg, Sweden
2003 – 2004 Junior Researcher, National Institute for Health and the Environment (RIVM), Bilthoven, The Netherlands

RESEARCH LEADERSHIP

- 2020 – present Energy Demand changes Induced by Technological and Social innovations (EDITS), co-Principal Investigator and WG co-lead on Scenario Protocol
2020 – present Climate change scenarios to support the NGFS, co-Principal Investigator
2019 – present Exploring National and Global Actions to reduce Greenhouse gas Emissions (ENGAGE), Co-Principal Investigator
2019 – present Work Package Leader and member of Scientific Steering Committee, Next generation of AdVanced InteGrated Assessment modelling to support

	climaTE policy making (NAVIGATE), WP3 Fundamental transformations of consumer goods and services
2019 – 2023	Sustainable development pathways achieving Human well-being while safeguarding the climate And Planet Earth (SHAPE), Work Package Leader WP4 Climate and Inequality and member of Scientific Steering Committee
2018 – present	International Committee on New Integrated Climate Change Scenarios (ICONICS), Co-chair of Steering Committee
2021 - 2022	Scenarios Forum Conference, June 20-22, 2022, Laxenburg, Austria, Chair of Scientific Steering Committee and Lead of Organizing Committee
2018 – 2019	Scenarios Forum Conference, March 11-13, 2019, Denver, CO, Member of Scientific Steering Committee
2012 – 2018	International Committee on New Integrated Climate Change Scenarios (ICONICS), Co-chair of working group on IAV quantitative elements and evaluation metrics
2015 – 2017	Integrated Assessment Modeling Consortium (IAMC), Member Scientific Steering Committee
2012 – 2015	Latin America Modeling Project (LAMP), Co-chair of WG on Baseline Scenarios and Baseyear Data, Co-chair of working group on climate change impacts on buildings
2009 – 2011	Asia Modeling Exercise (AME), Member of Scientific Steering Committee, Co-chair of working group on urban/rural development
2005 – 2007	Young Energy Specialists and Development Cooperation (YES-DC), Secretary of the board

SCIENTIFIC ADVISORY COMMITTEES

2020 - present	Science Based Targets Initiative, member Scientific Advisory Group
2020 – present	UN-Convened Net-Zero Asset Owner Alliance, member of Scientific Advisory Committee

PUBLICATIONS

AREAS OF INTEREST

Energy technology, Scenarios, Energy and development, Impacts of climate change, Household heterogeneity

Refereed Journal Articles

- 2023 Mastrucci, A., & **van Ruijven, B.** J. Global residential scenarios towards low energy and material demands. IOP Conference Series: Earth and Environmental Science, 1196(1), 012008. [doi](#)
- 2023 Eker, S., Mastrucci, A., Pachauri, S., & **van Ruijven, B.** Social media data shed light on air-conditioning interest of heat-vulnerable regions and sociodemographic groups. One Earth, 6(4), 428–440. [doi](#)

- 2023 Hunt, J. D., Zakeri, B., Nascimento, A., Gazoli, J. R., Bindemann, F. T., Wada, Y., **van Ruijven, B.**, & Riahi, K. (2023). Compressed air seesaw energy storage: A solution for long-term electricity storage. *Journal of Energy Storage*, 60, 106638. [doi](#)
- 2023 Hunt, J. D., Zakeri, B., Jurasz, J., Tong, W., Dąbek, P. B., Brandão, R., Patro, E. R., Đurin, B., Filho, W. L., Wada, Y., **van Ruijven, B.**, & Riahi, K. (2023). Underground Gravity Energy Storage: A Solution for Long-Term Energy Storage. *Energies*, 16(2), Article 2. [doi](#)
- 2023 Jäger, J., Brutschin, E., Pianta, S., Omann, I., Kammerlander, M., Sudharmma Vishwanathan, S., Vrontisi, Z., MacDonald, J., & **van Ruijven, B.** Stakeholder engagement and decarbonization pathways: Meeting the challenges of the COVID-19 pandemic. *Frontiers in Sustainability*, 3. [doi](#)
- 2022 Guo, F., **van Ruijven, B. J.**, Zakeri, B., Zhang, S., Chen, X., Liu, C., Yang, F., Krey, V., Riahi, K., Huang, H., & Zhou, Y. Implications of intercontinental renewable electricity trade for energy systems and emissions. *Nature Energy*, 1–13. [doi](#)
- 2022 Kwenda, P. R., Lagerwall, G., Eker, S., & **van Ruijven, B.** Identifying the Leverage Points in the Household Solid Waste Management System for Harare, Zimbabwe, Using Network Analysis Techniques. *Sustainability*, 14(19), Article 19. [doi](#)
- 2022 Hickmann, T., Bertram, C., Biermann, F., Brutschin, E., Kriegler, E., Livingston, J. E., Pianta, S., Riahi, K., **van Ruijven, B.**, & van Vuuren, D. Exploring Global Climate Policy Futures and Their Representation in Integrated Assessment Models. *Politics and Governance*, 10(3), 171–185. [doi](#)
- 2022 Brutschin, E., Schenuit, F., **van Ruijven, B.**, & Riahi, K. Exploring Enablers for an Ambitious Coal Phaseout. *Politics and Governance*, 10(3), 200–212. [doi](#)
- 2022 Mastrucci, A., Byers, E., Pachauri, S., Rao, N., & **van Ruijven, B.** Cooling access and energy requirements for adaptation to heat stress in megacities. *Mitigation and Adaptation Strategies for Global Change*, 27(8), 59. [doi](#)
- 2022 Hunt, J. D., Jurasz, J., Zakeri, B., Nascimento, A., Cross, S., Caten, C. S. ten, de Jesus Pacheco, D. A., Pongpairoj, P., Filho, W. L., Tomé, F. M. C., Senne, R., & **van Ruijven, B.J.** (2022). Electric Truck Hydropower, a flexible solution to hydropower in mountainous regions. *Energy*, 248, 123495. [doi](#)
- 2022 Shepard, J. U., **van Ruijven, B. J.**, & Zakeri, B. Impacts of Trade Friction and Climate Policy on Global Energy Trade Network. *Energies*, 15(17), 6171. [doi](#)
- 2022 Kwenda, P. R., Lagerwall, G., Eker, S., & **van Ruijven, B.** A mini-review on household solid waste management systems in low-income developing countries: A case study of urban Harare City, Zimbabwe. *Waste Management & Research*, 40(2), 139–153. [doi](#)
- 2022 Kermeli, K., Edelenbosch, O. Y., Crijns-Graus, W., **van Ruijven, B. J.**, van Vuuren, D. P., & Worrell, E.. Improving material projections in Integrated Assessment Models: The use of a stock-based versus a flow-based approach for the iron and steel industry. *Energy*, 239, 122434. [doi](#)
- 2021 Hasegawa, T., Fujimori, S., Frank, S., Humpenöder, F., Bertram, C., Després, J., Drouet, L., Emmerling, J., Gusti, M., Harmsen, M., Keramidas, K., Ochi, Y., Oshiro, K., Rochedo, P., **van Ruijven, B.**, Cabardos, A.-M., Deppermann, A., Fosse, F., Havlik, P., ... Riahi, K. Land-based implications of early climate actions without global net-negative emissions. *Nature Sustainability*, 4(12), 1052–1059, [doi](#)
- 2021 Riahi, K., Bertram, C., Huppmann, D., Rogelj, J., Bosetti, V., Cabardos, A.-M., Deppermann, A., Drouet, L., Frank, S., Fricko, O., Fujimori, S., Harmsen, M.,

- Hasegawa, T., Krey, V., Luderer, G., Paroussos, L., Schaeffer, R., Weitzel, M., van der Zwaan, B., ... **van Ruijven, B.J.**, Zakeri, B. Cost and attainability of meeting stringent climate targets without overshoot. *Nature Climate Change*, 11(12), 1063–1069. [doi](#)
- 2021 van Soest, H. L., Aleluia Reis, L., Baptista, L. B., Bertram, C., Després, J., Drouet, L., den Elzen, M., Fragkos, P., Fricko, O., Fujimori, S., Grant, N., Harmsen, M., Iyer, G., Keramidas, K., Köberle, A. C., Kriegler, E., Malik, A., Mittal, S., Oshiro, K., ... **van Ruijven, B.J.**, van Vuuren, D. P. Global roll-out of comprehensive policy measures may aid in bridging emissions gap. *Nature Communications*, 12(1), 6419. [doi](#)
- 2021 Kikstra, J. S., Vinca, A., Lovat, F., Boza-Kiss, B., **van Ruijven, B.**, Wilson, C., Rogelj, J., Zakeri, B., Fricko, O., & Riahi, K. Climate mitigation scenarios with persistent COVID-19-related energy demand changes. *Nature Energy*, 1–10. [doi](#)
- 2021 Mastrucci, A., **van Ruijven, B.**, Byers, E., Poblete-Cazenave, M., & Pachauri, S. Global scenarios of residential heating and cooling energy demand and CO₂ emissions. *Climatic Change*, 168(3), 14. [doi](#)
- 2021 Poblete-Cazenave, M., Pachauri, S., Byers, E., Mastrucci, A., & **van Ruijven, B.** Global scenarios of household access to modern energy services under climate mitigation policy. *Nature Energy*, 6(8), 824–833. [doi](#)
- 2021 Bertram, C., Riahi, K., Hilaire, J., Bosetti, V., Drouet, L., Fricko, O., Malik, A., Nogueira, L. P., Zwaan, B. van der, **van Ruijven, B.**, Vuuren, D. van, Weitzel, M., Longa, F. D., Boer, H.-S. de, Emmerling, J., Fosse, F., Fragkiadakis, K., Harmsen, M., Keramidas, K., ... Luderer, G. (2021). Energy system developments and investments in the decisive decade for the Paris Agreement goals. *Environmental Research Letters*, 16(7), 074020. [doi](#)
- 2021 Brutschin, E., Pianta, S., Tavoni, M., Riahi, K., Bosetti, V., Marangoni, G., & **van Ruijven, B. J.** (2021). A multidimensional feasibility evaluation of low-carbon scenarios. *Environmental Research Letters*, 16(6), 064069. [doi](#)
- 2021 Pianta, S., Brutschin, E., **van Ruijven, B.J.**, & Bosetti, V.. Faster or slower decarbonization? Policymaker and stakeholder expectations on the effect of the COVID-19 pandemic on the global energy transition. *Energy Research & Social Science*, 76, 102025. [doi](#)
- 2021 Battiston, S., Monasterolo, I., Riahi, K., & **van Ruijven, B. J..** Accounting for finance is key for climate mitigation pathways. *Science*. [doi](#)
- 2021 Harmsen, M., Kriegler, E., Vuuren, D. P. van, Wijst, K.-I. van der, Luderer, G., Cui, R., Dessens, O., Drouet, L., Emmerling, J., Morris, J. F., Fosse, F., Fragkiadakis, D., Fragkiadakis, K., Fragkos, P., Fricko, O., Fujimori, S., Gernaat, D., Guivarch, C., Iyer, G., ... **van Ruijven, B.J.**, Zakeri, B.. Integrated assessment model diagnostics: Key indicators and model evolution. *Environmental Research Letters*, 16(5), 054046. [doi](#)
- 2021 Wilson, C., Guivarch, C., Kriegler, E., **van Ruijven, B.J.**, van Vuuren, D. P., Krey, V., Schwanitz, V. J., & Thompson, E. L.. Evaluating process-based integrated assessment models of climate change mitigation. *Climatic Change*, 166(1), 3. [doi](#)
- 2021 Eker, S., Garcia, D., Valin, H., & **van Ruijven, B.J.** (2021). Using social media audience data to analyse the drivers of low-carbon diets. *Environmental Research Letters*. [doi](#)
- 2021 Kamei, M., Mastrucci, A., & **van Ruijven, B. J.** A Future Outlook of Narratives for the Built Environment in Japan. *Sustainability*, 13(4), 1653. [doi](#)

- 2021 Kwenda, P. R., Lagerwall, G., Eker, S., & **van Ruijven, B.J.** A mini-review on household solid waste management systems in low-income developing countries: A case study of urban Harare City, Zimbabwe: Waste Management & Research. [doi](#)
- 2020 O'Neill, B. C., Carter, T. R., Ebi, K., Harrison, P. A., Kemp-Benedict, E., Kok, K., Kriegler, E., Preston, B. L., Riahi, K., Sillmann, J., **van Ruijven, B. J.**, van Vuuren, D., Carlisle, D., Conde, C., Fuglestvedt, J., Green, C., Hasegawa, T., Leininger, J., Monteith, S., & Pichs-Madruga, R. Achievements and needs for the climate change scenario framework. *Nature Climate Change*, 10(12), 1074–1084. [doi](#)
- 2020 Dagnachew, A. G., Poblete-Cazenave, M., Pachauri, S., Hof, A. F., **Ruijven, B. van**, & Vuuren, D. P. van. Integrating energy access, efficiency and renewable energy policies in Sub-Saharan Africa: A model-based analysis. *Environmental Research Letters*. [doi](#)
- 2020 Schweizer, V. J., Ebi, K. L., van Vuuren, D. P., Jacoby, H. D., Riahi, K., Strefler, J., Takahashi, K., **van Ruijven, B. J.**, & Weyant, J. P. Integrated Climate-Change Assessment Scenarios and Carbon Dioxide Removal. *One Earth*, 3(2), 166–172. [doi](#)
- 2020 Zhao, Z.-J., Chen, X.-T., Liu, C.-Y., Yang, F., Tan, X., Zhao, Y., Huang, H., Wei, C., Shi, X.-L., Zhai, W., Guo, F., & **van Ruijven, B. J.** Global climate damage in 2 °C and 1.5 °C scenarios based on BCC_SESM model in IAM framework. *Advances in Climate Change Research*, 11(3), 261–272. [doi](#)
- 2020 Delzeit, R., Beach, R., Bibas, R., Britz, W., Chateau, J., Freund, F., Lefevre, J., Schuenemann, F., Sulser, T., Valin, H., **Ruijven, B. van**, Weitzel, M., Willenbockel, D., & Wojtowicz, K. (2020). Linking Global CGE Models with Sectoral Models to Generate Baseline Scenarios: Approaches, Challenges, and Opportunities. *Journal of Global Economic Analysis*, 5(1), 162–195. [doi](#)
- 2019 **van Ruijven, B. J.**, De Cian, E., & Sue Wing, I. Amplification of future energy demand growth due to climate change. *Nature Communications*, 10(1), 2762. [doi](#)
- 2019 Kermeli, K., Edelenbosch, O. Y., Crijns-Graus, W., **van Ruijven, B. J.**, Mima, S., van Vuuren, D. P., & Worrell, E. The scope for better industry representation in long-term energy models: Modeling the cement industry. *Applied Energy*, 240, 964–985. [doi](#)
- 2017 Rao, N. D., **van Ruijven, B. J.**, Riahi, K., & Bosetti, V. Improving poverty and inequality modelling in climate research. *Nature Climate Change*, 7(12), 857-862. [doi](#)
- 2017 Melnikov, N. B., O'Neill, B. C., Dalton, M. G., & **van Ruijven, B. J.** Downscaling heterogeneous household outcomes in dynamic CGE models for energy-economic analysis. *Energy Economics*, 65, 87-97. [doi](#)
- 2017 Maury, O., Campling, L., Arrizabalaga, H., Aumont, O., Bopp, L., Merino, G., . . . **van Ruijven, B. J.** From shared socio-economic pathways (SSPs) to oceanic system pathways (OSPs): Building policy-relevant scenarios for global oceanic ecosystems and fisheries. *Global Environmental Change*, 45, 203-216. [doi](#)
- 2017 van Vuuren, D. P., Stehfest, E., Gernaat, D. E. H. J., Doelman, J. C., van den Berg, M., Harmsen, M., **van Ruijven, B. J.**, . . . Tabeau, A. Energy, land-use and greenhouse gas emissions trajectories under a green growth paradigm. *Global Environmental Change*, 42, 237-250. [doi](#)
- 2017 O'Neill, B. C., Kriegler, E., Ebi, K. L., Kemp-Benedict, E., Riahi, K., Rothman, D. S., **van Ruijven, B. J.**, . . . Solecki, W. The roads ahead: Narratives for shared socioeconomic pathways describing world futures in the 21st century. *Global Environmental Change*, 42, 169-180. [doi](#)

- 2017 **van Ruijven, B. J.**, van Vuuren, D. P., Boskaljon, W., Neelis, M., Saygin, D., & Patel, M. K. Corrigendum to “Long-term model-based projections of energy use and CO₂ emissions from the global steel and cement industries” [Resour. Conserv. Recycl. 112 (2016) 15–36]. *Resources, Conservation and Recycling*, 125, 375-380. [doi](#)
- 2016 **van Ruijven, B. J.**, van Vuuren, D. P., Boskaljon, W., Neelis, M. L., Saygin, D., & Patel, M. K. Long-term model-based projections of energy use and CO₂ emissions from the global steel and cement industries. *Resources, Conservation and Recycling*, 112, 15-36. [doi](#)
- 2016 **van Ruijven, B. J.** Mind the gap – the case for medium level emission scenarios. *Climatic Change*, 138(3-4), 361-367. [doi](#)
- 2016 Clarke, L., McFarland, J., Octaviano, C., **van Ruijven, B. J.**, Beach, R., Daenzer, K., . . . van der Zwaan, B. Long-term abatement potential and current policy trajectories in Latin American countries. *Energy Economics*, 56, 513-525. [doi](#)
- 2016 **van Ruijven, B. J.**, Daenzer, K., Fisher-Vanden, K., Kober, T., Paltsev, S., Beach, R. H., . . . van Vuuren, D. P. Baseline projections for Latin America: base-year assumptions, key drivers and greenhouse emissions. *Energy Economics*, 56, 499-512. [doi](#)
- 2015 Hu, A., Levis, S., Meehl, G. A., Han, W., Washington, W. M., Oleson, K. W., **van Ruijven, B. J.**, . . . Strand, W. G. Impact of solar panels on global climate. *Nature Climate Change*, 6(3), 290-294. [doi](#)
- 2015 **van Ruijven, B. J.**, O'Neill, B. C., & Chateau, J. Methods for including income distribution in global CGE models for long-term climate change research. *Energy Economics*, 51, 530-543. [doi](#)
- 2013 van Vuuren, D. P., Deetman, S., van Vliet, J., van den Berg, M., **van Ruijven, B. J.**, & Koelbl, B. The role of negative CO₂ emissions for reaching 2 °C—insights from integrated assessment modelling. *Climatic Change*, 118(1), 15-27. [doi](#)
- 2013 Pachauri, S., **van Ruijven, B. J.**, Nagai, Y., Riahi, K., van Vuuren, D. P., Brew-Hammond, A., & Nakicenovic, N. Pathways to achieve universal household access to modern energy by 2030. *Environmental Research Letters*, 8(2). [doi](#)
- 2013 **van Ruijven, B. J.**, Levy, M. A., Agrawal, A., Biermann, F., Birkmann, J., Carter, T. R., . . . Schweizer, V. J. Enhancing the relevance of Shared Socioeconomic Pathways for climate change impacts, adaptation and vulnerability research. *Climatic Change*, 122(3), 481-494. [doi](#)
- 2013 Birkmann, J., Cutter, S. L., Rothman, D. S., Welle, T., Garschagen, M., **van Ruijven, B. J.**, . . . Pulwarty, R. Scenarios for vulnerability: opportunities and constraints in the context of climate change and disaster risk. *Climatic Change*, 133(1), 53-68. [doi](#)
- 2013 Lucas, P. L., Shukla, P. R., Chen, W., **van Ruijven, B. J.**, Dhar, S., den Elzen, M. G. J., & van Vuuren, D. P. Implications of the international reduction pledges on long-term energy system changes and costs in China and India. *Energy Policy*, 63, 1032-1041. [doi](#)
- 2012 Daioglou, V., **van Ruijven, B. J.**, & van Vuuren, D. P. Model projections for household energy use in developing countries. *Energy*, 37(1), 601-615. [doi](#)
- 2012 **van Ruijven, B. J.**, Schers, J., & van Vuuren, D. P. Model-based scenarios for rural electrification in developing countries. *Energy*, 38(1), 386-397. [doi](#)
- 2012 **van Ruijven, B. J.**, Weitzel, M., den Elzen, M. G. J., Hof, A. F., van Vuuren, D. P., Peterson, S., & Narita, D. Emission allowances and mitigation costs of China and

- India resulting from different effort-sharing approaches. *Energy Policy*, 46, 116-134. [doi](#)
- 2012 Krey, V., O'Neill, B. C., **van Ruijven, B. J.**, Chaturvedi, V., Daioglou, V., Eom, J., . . . Ren, X. Urban and rural energy use and carbon dioxide emissions in Asia. *Energy Economics*, 34, S272-S283. [doi](#)
- 2012 **van Ruijven, B. J.**, van Vuuren, D.P., van Vliet, J., Mendoza Beltran, A., Deetman, S., & den Elzen, M. G. J. Implications of greenhouse gas emission mitigation scenarios for the main Asian regions. *Energy Economics*, 34, S459-S469. [doi](#)
- 2012 den Elzen, M. G. J., Beltran, A. M., Hof, A. F., **van Ruijven, B. J.**, & van Vliet, J. Reduction targets and abatement costs of developing countries resulting from global and developed countries' reduction targets by 2050. *Mitigation and Adaptation Strategies for Global Change*, 18(4), 491-512. [doi](#)
- 2011 den Elzen, M. G. J., Hof, A. F., Mendoza Beltran, A., Grassi, G., Roelfsema, M., **van Ruijven, B. J.**, . . . van Vuuren, D. P. The Copenhagen Accord: abatement costs and carbon prices resulting from the submissions. *Environmental Science & Policy*, 14(1), 28-39. [doi](#)
- 2011 **van Ruijven, B. J.**, Lamarque, J.-F., van Vuuren, D. P., Kram, T., & Eerens, H. Emission scenarios for a global hydrogen economy and the consequences for global air pollution. *Global Environmental Change*, 21(3), 983-994. [doi](#)
- 2011 **van Ruijven, B. J.**, van Vuuren, D. P., de Vries, B. J. M., Isaac, M., van der Sluijs, J. P., Lucas, P. L., & Balachandra, P. Model projections for household energy use in India. *Energy Policy*, 39(12), 7747-7761. [doi](#)
- 2011 van Vuuren, D. P., Stehfest, E., den Elzen, M. G. J., Kram, T., van Vliet, J., Deetman, S., . . . **van Ruijven, B. J.** RCP2.6: exploring the possibility to keep global mean temperature increase below 2°C. *Climatic Change*, 109(1-2), 95-116. [doi](#)
- 2010 **van Ruijven, B. J.**, de Vries, B., van Vuuren, D. P., & van der Sluijs, J. P. A global model for residential energy use: Uncertainty in calibration to regional data. *Energy*, 35(1), 269-282. [doi](#)
- 2010 van Vuuren, D. P., Edmonds, J., Smith, S. J., Calvin, K. V., Karas, J., Kainuma, M., **van Ruijven, B. J.**, . . . Thomson, A. What do near-term observations tell us about long-term developments in greenhouse gas emissions? *Climatic Change*, 103(3-4), 635-642. [doi](#)
- 2009 **van Ruijven, B. J.**, & van Vuuren, D. P. Oil and natural gas prices and greenhouse gas emission mitigation. *Energy Policy*, 37(11), 4797-4808. [doi](#)
- 2009 **van Ruijven, B. J.**, van der Sluijs, J. P., van Vuuren, D. P., Janssen, P., Heuberger, P. S. C., & de Vries, B. Uncertainty from Model Calibration: Applying a New Method to Transport Energy Demand Modelling. *Environmental Modeling & Assessment*, 15(3), 175-188. [doi](#)
- 2008 **van Ruijven, B. J.**, Hari, L., van Vuuren, D. P., & de Vries, B. The potential role of hydrogen energy in India and Western Europe. *Energy Policy*, 36(5), 1649-1665. [doi](#)
- 2008 **van Ruijven, B. J.**, Urban, F., Binders, R. M. J., Moll, H. C., van der Sluijs, J. P., de Vries, B., & van Vuuren, D. P. Modeling Energy and Development: An Evaluation of Models and Concepts. *World Development*, 36(12), 2801-2821. [doi](#)
- 2007 **van Ruijven, B. J.**, van Vuuren, D. P., & de Vries, B. The potential role of hydrogen in energy systems with and without climate policy. *International Journal of Hydrogen Energy*, 32(12), 1655-1672. [doi](#)

- 2007 van Vuuren, D. P., den Elzen, M. G. J., Lucas, P. L., Eickhout, B., Strengers, B. J., **van Ruijven, B. J.**, ... van Houdt, R. Stabilizing greenhouse gas concentrations at low levels: an assessment of reduction strategies and costs. *Climatic Change*, 81(2), 119-159. [doi](#)

Book Chapters

- 2021 **van Ruijven, B.**, Bertram, C., Pianta, S., Kikstra J., Cherp., A. ENGAGE: From COVID-19 Shock to green recovery. In: European Commission. Climate Action in the Post-COVID-19 world: Insights from EU-funded projects on how to build forward better (pp. 27–32). European Commission. [doi](#)
- 2021 Emmerling J., Wilson C., **van Ruijven, B.**, Fragkos P., Fragkiadakis K., Mercure, J.F., Simsek, Y. NAVIGATE: Assessing the impacts of the COVID-19 pandemic on inequality, energy demand and macroeconomic development, and the resulting policy implications. In: European Commission. Climate Action in the Post-COVID-19 world: Insights from EU-funded projects on how to build forward better (pp. 27–32). European Commission. [doi](#)
- 2020 Buckle, S., Mirabile, M., Jaber, A.A., LANzi, E., Dellink, R., Symes, W., Elgouacem, A., Henderson, B., **van Ruijven, B.J.**, Dieckmann, U. et al., Integrated Policies for Climate, Air, Ecosystems, Energy and Transport. In: Systemic Thinking for Policy Making: The Potential of Systems Analysis for Addressing Global Policy Challenges in the 21st Century. pp. 57-66 Paris, France: New Approaches to Economic Challenges, OECD Publishing. ISBN 978-92-64-49456-5. [doi](#)
- 2020 Kirman, A., Dellink, R., Chateau, J., Barnes, S., Rovenskaya, E., Dieckmann, U., **van Ruijven, B.J.**, Riahi, K. & Wagner, F. Methodologies and Tools for Integrated Systems Modelling. In: Systemic Thinking for Policy Making: The Potential of Systems Analysis for Addressing Global Policy Challenges in the 21st Century. pp. 29-38 Paris, France: New Approaches to Economic Challenges, OECD Publishing. ISBN 978-92-64-49456-5. [doi](#)
- 2011 Geurts, K., H. Nijland, **van Ruijven, B. J.**, Getting into the Right Lane for Low-Carbon Transport in the EU. In Rothengatter, W., Hayashi, Y., Schade, W. (ed) *Transport Moving to Climate Intelligence - New Chances for Controlling Climate Impacts of Transport after the Economic Crisis*, Springer. [link](#)

Reports

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AWARDS AND HONORS

- 2020 Top 50 Nature Communications Earth and planetary sciences articles published in 2019 (van Ruijven, B. J., De Cian, E., & Sue Wing, I. (2019). Amplification of future energy demand growth due to climate change. *Nature Communications*, 10(1), 2762. [doi](#))
- 2018 Most Cited Paper Award, Resources, Conservation and Recycling (van Ruijven, B. J., van Vuuren, D. P., Boskaljon, W., Neelis, M. L., Saygin, D., & Patel, M. K., 2016, Long-term model-based projections of energy use and CO₂ emissions from the global steel and cement industries. *Resources, Conservation and Recycling*, 112, 15-36. [doi](#))
- 2018 Most Downloaded Paper Award, Resources, Conservation and Recycling (van Ruijven, B. J., van Vuuren, D. P., Boskaljon, W., Neelis, M. L., Saygin, D., & Patel,

- M. K., 2016, Long-term model-based projections of energy use and CO₂ emissions from the global steel and cement industries. *Resources, Conservation and Recycling*, 112, 15-36. [doi](#))
- 2013 Paper featured in ERL Highlights of 2013 collection (Pachauri, S., B. J. van Ruijven, Y. Nagai, K. Riahi, D. P. van Vuuren, N. Nakicenovic, and A. Brew-Hammond, 2013: Pathways to achieve universal household access to modern energy by 2030. *Environmental Research Letters*, 8-024015)

SELECTED TALKS

- 2023 Just Transition, Decent Living, Wellbeing, Toyota delegation visit to IIASA, Laxenburg, Austria, July 6th
- 2023 Insights from the ENGAGE project, ENGAGE Stakeholder Meeting, Beijing, China, June 29th
- 2023 Energy, Demand and Climate research at IIASA, Seminar at Tsinghua Buildings Energy Research Group, Tsinghua University, Beijing, China, June 27th
- 2023 Discussant of session on Demand, Oxford Symposium on Technology and Global Change, Oxford, UK, June 20th
- 2023 The SSP-RCP scenario framework: progress, needs, and next steps. Insights from the Scenarios Forum 2022. GTAP 26th Annual Conference on Global Economic Analysis, Bordeaux, France, June 15th
- 2023 MESSAGEix-GLOBIOM Scenarios for NGFS, UNEP-FI Workshop, June 12th
- 2023 Insights from the ENGAGE project, ELEVATE/ENGAGE Global Stakeholder Meeting, Bonn, Germany, June 8th
- 2023 UNEP-FI sectoral assessment tool, The Geneva Meeting on Net-Zero Alignment KPIs, Geneva, Switzerland, May 31st
- 2023 What could WorldTrans contribute to the IAM community? WorldTrans project meeting, Oslo, Norway, May 25th
- 2023 Climate change scenarios for financial risk analysis, BIS/NGFS Webinar, May 16th
- 2023 Non-model scenario activities, IPCC Expert Workshop on Scenarios, Bangkok, Thailand, April 26th
- 2023 Where do the NGFS Scenarios fit within the broader climate scenario landscape? NGFS Stakeholder Workshop, ECB, Frankfurt, Germany, April 5th
- 2023 Insights from the ENGAGE project, ENGAGE Stakeholder Meeting, Recife, Brazil, March 29th
- 2022 The SSP-RCP scenario framework: progress, needs, and next steps. Insights from the Scenarios Forum 2022. IAMC Annual Meeting, Plenary Session, December 1st
- 2022 The SSP-RCP scenario framework: progress, needs, and next steps. Insights from the Scenarios Forum 2022. IAMC Annual Meeting, November 29th
- 2022 Importance of demand side solutions for the transformation towards net-zero society, Japanese Pavilion, COP27, Sharm El-Sheikh, Egypt, November 17th
- 2022 Digitalization of mobility to facilitate emission reductions, Toyota R-Forum, November 10th

- 2022 Integrated Assessment Models, Workshop on Designing Scenarios for Climate Intervention Strategies, NCAR, Boulder, CO, November 1st
- 2022 Climate Intervention scenarios in the SSP-RCP framework, Workshop on Designing Scenarios for Climate Intervention Strategies, NCAR, Boulder, CO, October 31st
- 2022 Lessons Learned from the Scenarios Forum 2022, ICONICS Webinar, October 4th
- 2022 Next steps for climate finance scenarios, GTSP meeting, University of Maryland, July 13th
- 2022 Towards continuous evaluation of plausible ranges for the RCPs, Scenarios Forum 2022 plenary presentation, Laxenburg, Austria, June 22nd
- 2022 Climate change scenarios for financial risk analysis, BIS/NGFS Webinar, May 24th
- 2021 Pathways to net-zero, EU Pavilion side event at COP 26 "The Journey from Scientific Insights to Societal Action", November 1st
- 2021 NGFS Climate Risk Scenarios, Phase 2, UNEP-IEA-NGFS webinar, July 8th
- 2021 Climate Scenarios for the Financial Sector, Vienna Energy Forum (VEF) Side Event, July 7th
- 2021 The Industry sector in rapid transformations to net zero CO2 emissions, Vienna Energy Forum (VEF) Side Event, July 6th
- 2021 NAVIGATE WP3 overview, NAVIGATE online project review meeting, June 11th
- 2021 poster "The impact of COVID-19 and the greenness of recovery packages on climate change mitigation scenarios", UNFCCC Structured Expert Dialogue, June 3rd, virtual meeting
- 2021 poster "Balancing global sources and sinks under the Paris Agreement decreases overall feasibility concerns but requires faster mitigation early on", UNFCCC 13th Research Dialogue, June 1st, virtual meeting
- 2021 Climate Scenarios for the Financial Sector, online Vienna Energy Club meeting, May 26th
- 2021 Experience with modeling behavioral change in Integrated Assessment Models, online SFOE lunch lecture, May 26th
- 2021 Closing of the Energy Demand changes Induced by Technological and Social innovations (EDITS) quarterly meeting, online EDITS quarterly meeting, April 16th
- 2021 Initial thoughts on the scenario protocol: Toward a model complementary project, EDITS quarterly meeting, April 15th
- 2021 COVID-19 impacts on energy demand can help reduce long-term mitigation challenge, OECD Online Expert Workshop on Circular Economy, April 13th
- 2021 Opening of the Energy Demand changes Induced by Technological and Social innovations (EDITS) quarterly meeting, online EDITS quarterly meeting, March 30th
- 2021 Achievements and Needs of the Scenarios Framework, ICONICS webinar series, April 6th
- 2021 Sustainable Service Systems, online IIASA seminar series to Meet the New Research Group Leaders, March 31st
- 2021 Climate Scenarios for the Financial Sector, online IIASA ECE Seminar, March 15th
- 2021 ENGAGE project overview – Advisory Board Briefing, online ENGAGE AB Meeting, February 25th

- 2021 Introduction to the ICONICS webinar series, ICONICS webinar, February 22nd
- 2021 Resources for learning about and working with the SSPs, ICONICS webinar, February 22nd
- 2021 Experience with modeling behavioral change in Integrated Assessment Models, online IEA CERT thematic discussion, February 16th
- 2021 Introduction to the Shared Socioeconomic Pathways (SSPs), online Workshop on SSPs for Ahmedabad, February 10th
- 2020 Climate Risks for the Financial Sector, online SENSES finance tutorial, December 15th
- 2020 Energy Demand changes Induced by Technological and Social innovations (EDITS), Recap and synthesis, EDITS Online Expert Dialogue, December 11th
- 2020 Energy Demand changes Induced by Technological and Social innovations (EDITS), Opening and Goals of Workshop, EDITS Online Expert Dialogue, December 8th
- 2020 Panelist in GEIDCO online Annual Conference, November 3rd
- 2020 "Insights from IAM Studies: COVID-19 implications, net-zero scenarios, and bringing the gap", online UNFCCC 12th Research Dialogue, November 24-25, virtual meeting
- 2020 poster "The impact of COVID-19 and the greenness of recovery packages on climate change mitigation scenarios", UNFCCC 12th Research Dialogue, November 24-25, virtual meeting
- 2020 Introduction to the ENGAGE project and "Monitoring Lifestyle Changes as a Result of the Pandemic", Joint virtual ENGAGE-NAVIGATE Stakeholder Meeting, September 28th
- 2020 Panelist in Symposium on climate research in the USA, Amsterdam, Netherlands, October 14th
- 2020 Panelist in Macro-Energy Systems workshop, Stanford, CA on September 17-18
- 2020 Climate Risks in the financial sector, Rabobank, Utrecht, Netherlands, September 10th
- 2020 Introduction to the Scenario Explorer for the Network on Greening the Financial System (NGFS), UNEP-FI Webinar, May 20
- 2020 The MESSAGE Model and Mitigation Scenarios, UNEP-FI webinar, January 27
- 2020 Scenarios for Climate Risk, UZH, Zurich, January 5
- 2019 Synergies/trade-offs of climate policy with SDGs & Short-term implications of global peak temperature scenarios, UNFCCC COP25, Madrid, Spain, December 13
- 2019 Synergies/trade-offs of climate policy with SDGs & Short-term implications of global peak temperature scenarios, UNFCCC COP25, EU pavilion, Madrid, Spain, December 11
- 2019 The role of Global Energy Interconnection in climate change mitigation, UNFCCC COP25, IPCC Pavilion, Madrid, Spain, December 10
- 2019 IAMC database updates, IAMC annual meeting, Tsukuba, Japan, December 4
- 2019 Does Global Energy Interconnection help climate change mitigation? IAMC annual meeting, Tsukuba, Japan, December 2
- 2019 The SSP-RCP scenario framework: SSPs, RCPs, and ScenarioMIP, FishMIP Scenarios Workshop, Rome, Italy, October 23

- 2019 Improving poverty and inequality modeling in Climate Change Research, workshop on Integrating impacts, mitigation and inequality, Potsdam, Germany, October 8
- 2019 What have we learned and where are we going?, Keynote at Workshop on Sustainable Development and Climate, Vienna, Austria, September 19
- 2019 Overview of NAVIGATE WP3, NAVIGATE kick-off meeting, Potsdam, Germany, September 10
- 2019 Introduction to the ENGAGE project, EU H2020 Coordinators Day, Brussels, Belgium, September 6
- 2019 Exploring National and Global Actions to reduce Greenhouse gas Emissions, EU H2020 Decarbonization Event, September 5
- 2019 Insights on investment needs for mitigation actions, UNFCCC Experts Meeting on Assessing and Determining the Needs of Developing Countries, Manilla, Philippines, July 10
- 2019 Introduction to IIASA, GEIDCO, Beijing, China, June 27
- 2019 Implications of the Paris agreement for achieving the Sustainable Development Goals, 2019 workshop on co-benefits of sustainable energy transition in China, Tsinghua University, Beijing, China, June 26
- 2019 Which clean energy pathway? The power sector under different mitigation strategies. Vienna Energy Transition Forum, Vienna, Austria, June 6
- 2019 Improving Poverty and Inequality Modeling in Climate Change Research, Scenarios Forum 2019, Denver, CO, March 12
- 2019 Energy Investment Needs for Fulfilling the Paris Agreement, Scenarios Forum 2019, Denver, CO, March 11
- 2019 Resources for learning about and working with the SSPs, Tutorial at the Scenarios Forum 2019, Denver, CO, March 10
- 2019 Socioeconomic Scenarios for Climate Change - and how you can be involved -, Seminar at Wageningen University and Research, January 29
- 2018 Empirical needs for behavioral modeling, COBHAM workshop, Milan, Italy, November 22
- 2018 The price of stupidity: exploring the sensitivity of mitigation scenarios to societal choices, Poster at the Annual Meeting of the Integrated Assessment Modeling Consortium, Sevilla, Spain, November 13
- 2018 Global urban scale demand modeling, Workshop on Rethinking Energy Demand, Nara, Japan, September 25
- 2018 Activities related to building energy in the IIASA energy program, WUDAPT meeting, IIASA, Laxenburg, Austria, August 7
- 2018 Technological change, low carbon development and the SDGs, a long-term view, Expert Group Meeting on Green Economy for SDGs, Jeju, Korea, March 13
- 2018 The Role of Economics in Analyzing Impacts of Climate Change, AgMIP ECON meeting, Sevilla, Spain, March 8
- 2018 Uncertainty in climate impacts on energy use, ENE Seminar, IIASA, Laxenburg, Austria, January 15
- 2017 Impacts of Climate Change and Climate Policy on Households in Mexico, IAMC Annual Meeting, Recife, Brazil, December 4

- 2017 Climate Impact Analyses with Integrated Assessment Models, Climate Change Distributive Impacts – Tools and Applications, Mexico City, Mexico, November 13
- 2017 Experiments with Behavior in global Integrated Assessment Models, 21st Century Energy Transition Symposium, Colorado State University, Fort Collins, CO, October 31
- 2017 Uncertainty in climate impacts on energy use, NCAR CGD Seminar, Boulder, CO, May 3
- 2016 Climate impacts on building energy use, MIT Joint Program Lunch Meeting, Cambridge, MA, May 20
- 2016 Income Distribution in CGE models: Guidance for IAMs, CD-LINKS Expert Workshop, FEEM, Venice, Italy, May 17
- 2016 Modeling Energy and Development in Integrated Assessment Models, Stockholm Environment Institute, US Center, Somerville, MA, May 10
- 2016 Climate impacts on building energy use, Boston University, Pardee Center, Boston, MA, May 3
- 2016 Demographic heterogeneity in IAMs - implications for emissions, mitigation and vulnerability, MIT EPPA meeting, Cambridge, MA, March 15
- 2015 The ICONICS working group on non-IAM indicators, IAMC annual meeting, Potsdam, Germany, November 17
- 2015 Next steps in uncertainty analysis for the IAM community - Lessons from the IPCC scenarios database, IAMC annual meeting, Potsdam, Germany, November 17
- 2015 Urban and rural household consumption in Latin America, Poster at the IAMC annual meeting, Potsdam, Germany, November 16
- 2015 CGE diagnostics, ADVANCE project meeting, London, UK, September 14,
- 2015 Overview of priorities for further development of production sectors, IAM group annual meeting, NCAR, Boulder, CO, September 2
- 2015 Linking CLM and iPETS to estimate climate impacts on building energy use, CESM tutorial, Boulder, CO, August 12
- 2015 Linking CLM and iPETS to estimate climate impacts on building energy use, Poster at the 20th CESM annual workshop, Breckenridge, CO, June 15
- 2015 Downscaling from a representative household to urban and rural households for SSPs in Latin America, Meeting on income distribution projections for the SSPs, IIASA, Laxenburg, Austria, May 21
- 2015 Socioeconomic Heterogeneity in the SSPs, IPCC Expert Meeting on Scenarios, IIASA, Laxenburg, Austria, May 19
- 2015 iPETS modeling presentation, Latin America Modeling Project meeting, Rio de Janeiro, Brazil, May 13
- 2015 Overview of building energy results, Latin America Modeling Project meeting, Rio de Janeiro, Brazil, May 13
- 2015 Using CLM-urban to estimate climate impacts on buildings, Latin America Modeling Project meeting, Rio de Janeiro, Brazil, May 13
- 2015 Climate impacts on building energy use, visit of US Green Building Council to NCAR, Boulder, CO, April 17
- 2015 Climate impacts on building energy use, NCAR Day of Networking and Discovery, Boulder, CO, April 17

- 2015 Demographic heterogeneity in IAMs - implications for emissions, mitigation and impacts, IAM seminar at Princeton University, Princeton, NJ, February 11
- 2015 Urban links between CLM and iPETS, Joint TSS-IAM meeting, Boulder, CO, February 5
- 2015 Cement demand modeling in IMAGE, ADVANCE project meeting, Utrecht, The Netherlands, January 22
- 2014 Sensitivity of greenhouse gas mitigation costs to limitations in climate policy and technology, Poster at the AGU fall meeting, San Francisco, CA, December 18
- 2014 Using the new scenario framework for analyzing future climate change impacts, Annual meeting of the Society for Risk Analysis, Denver, CO, December 8
- 2014 Downscaling results from a representative household to urban and rural households in Latin America, Annual meeting of the Integrated Assessment Modeling Consortium, College Park, MD, November 18
- 2014 The starting points: base-year assumptions and core baseline projections for Latin America, LAMP/CLIMACAP project meeting, Cuernavaca, Mexico, October 16
- 2014 Scenarios as unifying framework for sustainability research, CSU international colloquium on global environmental sustainability, Fort Collins, CO, October 7
- 2014 Comparing societal impacts and mitigation between RCP8.5 vs 4.5: A review, BRACE project all-day meeting, Boulder, CO, September 24
- 2014 Aspects of scale in Impacts Assessment, EMF Snowmass meeting, Snowmass, CO, July 24
- 2014 Comparing energy use for space heating and cooling between Integrated Assessment Models and CLM-urban, Poster at CESM annual meeting, Breckenridge, CO, June 16
- 2014 The roads ahead - SSP narratives, Arctic Scenarios Meeting at IIASA, Laxenburg, Austria, May 19
- 2014 Integrated Assessment Modeling - Models, Applications and Cooperation with IAV research, Seminar at United Nations University, Bonn, Germany, May 12
- 2014 Overview of LAMP baseline projection, LAMP/CLIMACAP project meeting, Bogota, Colombia, April 28
- 2014 Enhancing the relevance of SSPs for IAV research, AMS annual conference 2014, Atlanta, GA, February 4
- 2014 Household Heterogeneity in iPETS, World Bank meeting with NCAR-IAM, Washington, DC, January 29
- 2013 Shared Socioeconomic Pathways – Process and Relevance for IAV research, Impacts World Conference, Potsdam, Germany, May 29
- 2013 Integrated Assessment Models – Models, Applications and the Carbon Cycle, NCAR ASP colloquium, Boulder, August 14
- 2013 Overview of LAMP baseline projection, ClimaCAP/LAMP meeting, Bariloche, Argentina, October 21
- 2013 Household heterogeneity in iPETS, ClimaCAP/LAMP meeting, Bariloche, Argentina, October 22
- 2013 Comparing energy use for space heating and cooling across IAMs and Earth System Models, IAMC annual meeting, Tsukuba, Japan, October 27

- 2013 The new scenario process – relevance for global fisheries scenarios, CLIOTOP workshop on Building 21st century scenarios for global oceanic ecosystems and fisheries Paris, France, November 25
- 2013 Integrated Assessment Modeling at NCAR, Seminar at CIRED, Paris, France, November 28
- 2013 Enhancing the relevance of SSPs for IAV research, AGU poster session, San Francisco, CA, December 12
- 2012 Introduction to the CESM Societal Dimensions Working Group for LAMP, Latin America Modeling Project Meeting, San Jose, Costa Rica, October 3
- 2012 Introduction to the SSPs for LAMP, Latin America Modeling Project Meeting, San Jose, Costa Rica, October 3
- 2012 Quantification of IAM drivers for the SSPs, GCAM/GTSP Meeting, Joint Global Change Research Institute, College Park, MD, USA, September 18
- 2012 Income Distribution in Large-Scale Models, Energy Modeling Forum Workshop on Climate Change Impacts and Integrated Assessment, Snowmass, CO, USA, July 25
- 2012 Global Development Pathways for Adaptation to Climate Change and their Role for Local Approaches, Scientific Workshop on development pathways for urban and rural coastal zones, UNU-EHS and LIPI-ICIAR, Bogor, Indonesia, July 12
- 2012 Income Distribution in CGE Model, OECD, Paris, June 13, 2012
- 2012 National Renewable Energy Laboratory (NREL) Energy in iPETS, NREL seminar, May 8
- 2012 Integrated assessment modeling at NCAR, presentation for GAO delegation visit, Feb. 8, 2012

TEACHING

- 2023 Faculty Lecture “Energy Perspectives and the Environment”, TU Vienna, MSc Program Renewable Energy Systems, January 8
- 2022 Guest Lecture “Climate Change Scenarios for Financial Risk Analysis”, EDHEC, Nice, France, October 25
- 2022 Faculty Lecture “Climate-change: theory and practice in a bird’s-eye view”, European University Institute / Florence School of Banking and Finance, Climate Risks Online Academy, December 2022
- 2022 Faculty Lecture “Climate-change: theory and practice in a bird’s-eye view”, European University Institute / Florence School of Banking and Finance, Climate Risks Online Academy, April 2022
- 2021 Guest Lecture “Climate Change Scenarios for Financial Risk Analysis”, EDHEC, Nice, France, October 13
- 2021 Faculty Lecture “Energy Perspectives and the Environment”, TU Vienna, MSc Program Renewable Energy Systems, September 18
- 2021 Faculty Lecture “Climate-change: theory and practice in a bird’s-eye view”, European University Institute / Florence School of Banking and Finance, Climate Risks Online Academy, 30 April – 21 May 2021
- 2021 Faculty Workshop “Working with the NGFS Scenario Explorer & the IIASA database infrastructure”, European University Institute / Florence

	School of Banking and Finance, Climate Risks Online Academy, 30 April – 21 May 2021
2020	Remote Guest Lecture “Climate Policy Scenarios and Integrated Assessment Models”, UZH Zurich, September 28
2019	Guest Lecture “Scenarios for Climate Risk”, European University Institute / Florence School of Banking and Finance, Climate Change Risks Hidden within Financial Institution’s Balance Sheets, October 29
2019	Faculty Lecture “Energy Perspectives and the Environment”, TU Vienna, MSc Program Renewable Energy Systems, March 23
2019	Remote Guest Lecture “CGE Modeling – A Peek under the Hood”, Utrecht University, Copernicus Institute for Sustainable Development, Utrecht, The Netherlands, February 22
2018	Guest teacher at the 2nd CIRED Summer School in Economic modelling of Environment, Energy and Climate on “The role of demand and lifestyles in low carbon pathways”. Paris, July 2-6
2018	Remote Guest Lecture “CGE Modeling – A Peek under the Hood”, Utrecht University, Copernicus Institute for Sustainable Development, Utrecht, The Netherlands, March 2
2010	Electronic Guest Lecture “The Climate Challenge – Developing countries: Energy development, GHG emissions and their role in abatement efforts” in course Global Energy Economics, Chalmers University, Gothenburg, Sweden, October
2010	Guest Lecture “Linking economic history and future energy projections” at Lund University, School of Economics and Management, Lund, Sweden, December 7
2006 – 2011	Energy Modeling and Economics, Utrecht University, MSc Energy Science
2005	Global Change and Sustainability, Utrecht University, MSc Energy Science
2004 – 2006	Sustainable Development – An Integrated Systems Approach, Utrecht University, MSc Sustainable Development

SUPERVISED STUDENTS

2023	Arooj Nawaz (MSc), “Do Demand or Supply side Mitigation Measures have More Co-Benefits with Sustainable Development Goals?”, TU Wien
2021	Phylis Kwenda (PhD), University of KwaZulu Natal, Berea, Durban, South Africa
2016	Hiroshi Nasu (Undergraduate), Boston University
2011	Willem Boskaljon (MSc), “Modeling the steel and cement industry - A bottom-up addition to the TIMER model”, Utrecht University
2010	Vassilis Daioglou (MSc), “Residential Energy Use Scenarios”, Utrecht University
2009	Jules Schers (MSc), “Modelling Rural Electrification for Developing Countries: Benefits, Drivers and Investments”, Utrecht University
2009	Chris Roorda (MSc), “The SUSCLIME model: Exploring adjustment of behaviour to climate change and resource depletion”, Utrecht University

- 2008 Li Shen (MSc), "2030: Energy Demand Scenarios and Biomass CHP options for Rural Households in Beijing", Utrecht University

PHD EVALUATION COMMITTEES

- 2022 Francesco Colelli, Ca' Foscari University, Italy
 2020 Anteneh Dachnachew, Utrecht University, Netherlands
 2019 Simona Pedde, Wageningen University, Netherlands

INTERNATIONAL SCIENTIFIC ASSESSMENT BODIES

- 2023 Invited speaker, IPCC Workshop on the Use of Scenarios in AR6 and Subsequent Assessments, Bangkok, Thailand, April 25-27
 2019-2022 Contributing Author, IPCC 6th Assessment Report, WG3, Chapter 3
 2015 Invited speaker, IPCC Expert Meeting on Scenarios, Laxenburg, Austria, May 18-20
 2012 Lead Author, Energy Pathways for Sustainable Development, Chapter 17, Global Energy Assessment, 2012
 2010 Invited speaker, IPCC Expert Meeting on Renewable Energy Modeling, Oxford, UK, March 1
 2009 Invited speaker, IPCC Expert Meeting on Renewable Energy Modeling, Oslo, Norway, August 31
 2007 Lead Author, The Future Today, Chapter 9, Global Environment Outlook 4 – Environment for Development

REVIEW ACTIVITIES

Reviewing for Journals

Applied Energy, Climate Policy, Climatic Change, Climate Change Economics, Climate and Development, Ecological Economics, Energy Economics, Energy Policy, Environmental Research Letters, Environmental Science and Policy, Environmental and Resource Economics, Environmental Science & Technology, GCB Bioenergy, International Journal of Environmental Research and Public Health, Journal of Cleaner Production, Natural Resources Forum, Nature, Nature Climate Change, Nature Energy, Nature Sustainability, Nature Communications, PLOS ONE, Sustainability, Science, Technological Forecasting & Social Change, WIREs Energy, World Development

Reviews of Grant Proposals

Swiss National Science Foundation, Nazarbayev University Research Council in Astana (Kazakhstan), Oak Ridge Associated Universities

Reviews of Models

2017 Member of the review panel for the ENERGY 2020 North-American energy system model of Environment and Climate Change Canada (ECCC).

INSTITUTIONAL SERVICE

2019	Member IIASA Internal Research Committee
2002 – 2003	Member education committee Environmental Sciences, Utrecht University, Utrecht, The Netherlands
2001 – 2003	Member introduction committee Environmental Sciences, Utrecht University, Utrecht, The Netherlands
1998 – 1999	Secretary education committee music in education, Utrecht School of the Arts, Utrecht, The Netherlands

MEDIA COVERAGE

Quoted in “The Blood-Dimmed Tide - Climate change is poised to alter the face of global conflict.”, The New Republic, September 16, 2019. [link](#)

Quoted in “Climate Change just got a Little Less Terrible”, Bloomberg, February 9, 2018. [link](#)

Interview about “IAMs and emission scenarios” on The Energy Transition Show with Chris Nelder, September 6, 2017. [link](#)

Comments on “Nuclear Power Prevents More Deaths Than It Causes”, Chemical & Engineering News, April 2, 2013. [link](#)