

Curriculum Vitae

Personal details:

Name: Dr. Boris Jansen

Address (work): Institute for Biodiversity and Ecosystem Dynamics
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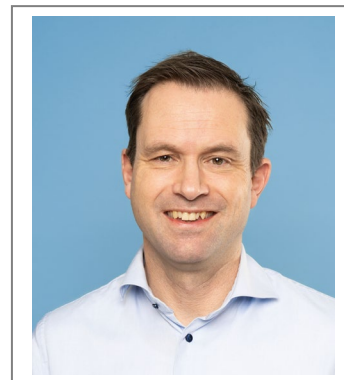
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Date of birth: 22 June 1974

Nationality: Dutch

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Academic appointments:

2017 – now: **Associate Professor** of Soil Chemistry (tenured) at the Ecosystem and Landscape Dynamics Department (ELD) of the Institute for Biodiversity and Ecosystem Dynamics (IBED), Faculty of Science (FNWI), University of Amsterdam, The Netherlands.

Responsible for: research and education (BSc, MSc and PhD level) in biogeochemistry with a focus on soil organic matter.

2008 – 2017: **Assistant Professor** of Soil Chemistry at the Earth Surface Science (ESS) Research Group IBED, FNWI, University of Amsterdam, The Netherlands.

Full-time since 2013

2006 – 2013: **Science Officer** of IBED, FNWI, University of Amsterdam, The Netherlands.

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Responsible for: policy development, stakeholder relations, dissemination of research results to society.

2004 – 2008: **Postdoctoral Researcher** at IBED-ESS, FNWI, University of Amsterdam, The Netherlands.

Project: reconstruction of historic vegetation patterns in the Ecuadorian Andes through a multi-proxy combination of molecular biomarkers, fossil pollen, soil stratigraphy and present day vegetation patterns.

Responsible for: development and application of molecular proxies, and the management, coordination and integration of the three research lines.

Education:

1999 – 2003: PhD in Soil Science, IBED, University of Amsterdam, The Netherlands.
Dissertation date: 27 October 2003.

Research topic: the mobility of aluminium, iron and organic matter in acidic sandy soils.

1993 – 1998: MSc in Environmental Chemistry, Vrije Universiteit Amsterdam, The Netherlands.

MSc Thesis: Extraction of pesticides from polluted soils with sub-critical water. Research performed at the Energy and Environmental Research Center in Grand Forks, North Dakota, United States of America. (8 months).

- 1986 – 1993:** Voorbereidend Wetenschappelijk Onderwijs (Dutch high school)
Alberdink Thijm College, Hilversum.
- 1989 – 1991:** Dublin High School, Dublin, Ohio, United States of America.
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Professional experience:

- 2024 – now:** Vice-Chair of the Soil Chemistry Commission of the International Union of Soil Sciences (IUSS).
- 2023 – now:** Director of the Graduate School of Life and Earth Science at the University of Amsterdam.
- 2018 – now:** Editor-in-Chief of the scientific journal Soil & Tillage Research.
- 2014 – now:** Topical Editor and Editorial Board Member of the scientific journal SOIL.
- 2021 – 2023:** Chair of the Examination Board of the Bachelor Programs Future Planet Studies and Bèta-gamma at the University of Amsterdam.
- 2016 – 2022:** Chair of the Soil Chemistry Commission of the IUSS.
- 2014 – 2020:** Director of the Bachelor Program Future Planet Studies at the University of Amsterdam.
- 2015 – 2020:** Board Member of Lulofs: the alumni organization for UvA Earth Sciences.
- 2018 – 2019:** Board Member of The Netherlands Journal of Geoscience Foundation.
- 2012 – 2017:** Board Member of the Nationale DenkTank Foundation: an independent Dutch institution aimed at bringing together young talents from science, government and industry to tackle topical societal issues (www.nationale-denktank.nl).
- 2014 – 2016:** Vice-Chair of the Soil Chemistry Commission of the IUSS.
- 2006 – 2014:** Secretary of the Internal Scientific Advisory Committee of IBED at the University of Amsterdam.
- 2012 – 2014:** Chair of the Educational Committee of the Bachelor Future Planet Studies and the Bachelor Earth Sciences at the University of Amsterdam.
- 2010 – 2012:** Member of the Educational Committee of the Bachelor Future Planet Studies and the Bachelor Bèta-gamma at the University of Amsterdam.
- 2009 – 2013:** Outreach Secretary, and subsequently Secretary of Internal Affairs of the Soil Systems Science (SSS) Division of the European Geosciences Union (EGU).
- 2007 – 2010:** Ambassador of the Science and Technology Platform (Platform Bèta Techniek): a Dutch government institution aimed at promoting higher science education.
- 2007 – 2010:** President of the Dutch Soil Science Society (NBV).
- 2004 – 2007:** Vice-President of the Dutch Soil Science Society (NBV).
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Advisory board memberships, jury memberships, program reviewerships

- 2024 – now:** Advisor Board Member of Dutch soil science museum Museonder
- 2024 – now:** Advisory Board Member of the Dutch Science Council (NWO) Earth Sciences Community
- 2024 – now:** Advisory Board Member of The Fertilizer Show (fertilizershow.com)
- 2023 – now:** Advisory Board Member of the scientific journal Geoderma
- 2021 – now:** Member of the Scientific Advisory Board for the SlimLandgebruik research program funded by the Dutch Ministry of Agriculture, Nature and Food Quality
- 2010 – now:** Advisory Board Member of the Dutch Soil Science Society (NBV)

- 2017 – 2018:** Member of the External Advisory Board of the non-profit organization SAMEEN: aimed at increasing sustainability of business processes
- 2017 – 2022:** Jury member of the KNGMG Escher Prize.
- 2014:** Jury member of the MENSA Slimmer!Quiz
- 2004 – 2014:** Jury member of the NBV Hissink Prize.
- 2014-now:** Expert reviewer for inter alia: the EU Horizon 2020 Marie Skłodowska Curie ITN rounds 2016, 2019 and 2020; the EU Horizon 2020 TWINNING round 2019; the EU Horizon 2020 COFUND program; the Netherlands Organisation for Scientific Research (NWO), the German Research Organization (DFG), the Flemish Research Organization (FWO) and the Swiss National Science Foundation (SNSF).
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Professional memberships:

Dutch Soil Science Society (NBV), International Union of Soil Sciences (IUSS), European Geosciences Union (EGU), Royal Dutch Geological and Mining Society (KNGMG).

Languages and skills:

- Dutch and English (fluent); Spanish, French and German (limited working proficiency).
 - Excellent general laboratory skills as well as specific skills in analytical chemistry.
 - Driver license
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Postdocs and PhD students supervised:

Postdocs:

1. Dr. Evy de Nijs (Postdoc of the University of Amsterdam). Topic: unlocking the nexus of compost-originated carbon, microbial communities and pesticide residues in African horticultural soils (2025-2027).
2. Dr. Timo Breure (Postdoc of Wageningen University in joint project with the University of Amsterdam). Topic: linking science and data for soil assessments to inform field and farm interventions (2021-2022).
3. Dr. Supta Das (Postdoc of the University of Amsterdam). Topic: risks and opportunities for soils and crops related to the application of biobased fertilizers (BBF) – part of the EU H2020 funded LEX4BIO program (2021-2022).
4. Dr. Baptiste Poursat (Postdoc of the University of Amsterdam). Topic: bioremediation of pesticide polluted soil in the Broekpolder area (2019-2020).
5. Dr. Susanne Laumann (Postdoc of the Technical University Delft in joint project with the University of Amsterdam). Topic: Application of soil chemical processes to reduce permeability of water bodies (on-going). (2014-2019).
6. Dr. José Acosta Aviles (Postdoc of the University of Amsterdam). Topic: Influence of salt contents on heavy metal mobility in calcareous soils of Murcia, Spain (2009-2011).

PhD students as main supervisor (promotor or co-promotor in the Dutch system)

On-going

1. Oswin van der Scheer (PhD student of the University of Amsterdam). Topic: carbon cycling in paludiculture. Role: promotor.
2. Yujia Shi (PhD student of the University of Amsterdam). Topic: Long-term carbon storage in Amazonian Dark Earth soils in relation to soil management practices. Role: promotor.
3. Docia Agyapong (PhD student of the University of Amsterdam). Topic: Impacts of artisanal and small-scale gold mining on surface water; implications on ecological health, agriculture and local livelihoods in Ghana. Role: promotor.
4. David Cajas Muñoz (PhD student of the University of Amsterdam). Topic: Soil biological mechanisms involved in improving soil functions. Role: promotor.
5. Chupei Shi (PhD student of the University of Amsterdam). Topic: Unravelling the root, microbial, and mineral mechanisms of soil organic matter formation and stabilization. Role: promotor.
6. Sascha Nijdam (PhD student in Joint Doctorate between KU Leuven and the University of Amsterdam). Topic: Effects of soil degradation on soil carbon storage and persistence in forests. Role: promotor.
7. Dario Püntener (PhD student in Joint Doctorate between the University of Zürich and the University of Amsterdam). Topic: to improve the understanding of how molecular proxies in soil change with changing environmental conditions. Role: promotor.
8. Edith Eder (PhD student of the University of Amsterdam). Topic: Designing nature-inspired geotechnical engineering tools: waste streams used to contain and cleanup soil pollution. Role: promotor.
9. Nan Zang (PhD student of the University of Amsterdam). Topic: the interplay of biotic- and abiotic processes that stabilize organic carbon during water erosion under different plant patterns. Role: promotor.
10. Tamara Jonkman (PhD student of the University of Amsterdam in a joint project with the Social Sciences Faculty). Topic: application of soil organic matter dynamics and processes to increase fertility and reduce pollution in African city slum soils in the context of empowering women food entrepreneurs. Role: promotor.
11. Keunbae Kim (PhD student of the KU Leuven). Topic: Effects of soil degradation on soil carbon storage and persistence in peatland. Role: co-promotor.
12. Likoko Eunice (PhD student of the University of Amsterdam in a joint project with the Social Sciences Faculty). Topic: application of soil organic matter dynamics and processes to increase fertility and reduce pollution in African city slum soils in the context of empowering women food entrepreneurs. Role: co-promotor.

Completed

1. Yan Dong (PhD student of the University of Amsterdam). Topic: risks and opportunities for soils and crops related to the application of biobased fertilizers (BBF) – part of the EU H2020 funded LEX4BIO program. Dissertation date: 29 November 2025. Role: promotor.
2. Fangbin Hou (PhD student of the University of Amsterdam). Topic: the role of root exudates in drought-induced changes in soil C cycling. Dissertation date: 25 March 2025. Role: co-promotor

3. Carrie Thomas (PhD student in Joint Doctorate between the University of Zürich and the University of Amsterdam). Topic: Towards improved source apportionment of organic matter in soil and peat using lipid biomarkers and inverse modelling. Dissertation date: 24 September 2024. Role: promotor.
4. Olaf Brock (PhD student of the University of Amsterdam in a joint project with the Technical University Delft) Topic: The role of the molecular composition of organic matter in its (co-)precipitation by aluminium, podzolization, and carbon sequestration. Dissertation date: 18 November 2020. Role: promotor.
5. Jiani Zhou (PhD student of the Technical University Delft in a joint project with the University of Amsterdam). Topic: Development of A Nature-Based Geo-Engineering Solution to Reduce Soil Permeability. Dissertation date: 24 June 2020. Role: co-promotor.
6. Milan Teunissen van Manen (PhD student of the University of Amsterdam). Topic: characterization of Neotropical ecosystems by their modern pollen spectra and organic chemical composition. Dissertation date: 20 May 2020. Role: promotor.
7. Songy Yang (PhD student of the University of Amsterdam). Topic: stabilization of carbon stocks in neotropical alpine grasslands in Peru under changing precipitation patterns. Dissertation date: 1 April 2020. Role: promotor.
8. Bernard Fungo (PhD student of the University of Amsterdam). Topic: Greening with black; Biochar-soil amendment for low-emission agriculture. Dissertation date: 30 October 2019. Role: promotor.
9. Jiajia Gao (PhD student of the University of Amsterdam). Topic: The role of organo-mineral interactions in carbon stabilization in soils. Dissertation date: 21 November 2017. Role: co-promotor.
10. Yasser Refaey (PhD student of the University of Amsterdam). Topic: The application of clay minerals in waste water treatment and drinking water purification in Egypt. Dissertation date: 22 December 2016. Role: co-promotor.

PhD students as member of the PhD committee

1. Christène Vouillamoz (PhD student of the University of Zürich). Topic: Disentangling the influence of climate change on the carbon cycle in forest soils. Dissertation date to be set.
2. Emily te Pas (PhD student of Wageningen University). Topic: Towards “set-in-stone” co-deployment of enhanced rock weathering and biochar. Dissertation date to be set.
3. Charlie Davey (PhD student of the University of Amsterdam). Topic: Risk, removal and remediation of psychopharmaceuticals in the aquatic environment. Planned dissertation date: 5 February 2025.
4. Mengru Jia (PhD student of the University of Amsterdam). Topic: Linking microbial community and gross nitrogen transformations in forest soils: methods and experiments. Dissertation date: 30 October 2025.
5. Evy de Nijs (PhD student of the University of Amsterdam). Topic: Sustainable rose farming using rose compost recycling in Kenya. Dissertation date: 14 February 2025.
6. Robrecht van der Bauwhede (PhD student of the KU Leuven). Topic: Rock dust as a restoration measure for acidified forests. Dissertation date: 16 January 2025.
7. Qiqi Wang (PhD student of the University of Amsterdam). Topic: Nutrient dynamics in ecosystems under sulphur deficient scenarios. Dissertation date: 11 March 2024.

8. Sebastian Felizeter (PhD student of the University of Amsterdam). Topic: PFAS distribution in soil and plants. Dissertation date: 9 November 2022.
9. Kini Janvier (PhD student of the University of Amsterdam). Topic: application of soil organic matter dynamics and processes to increase fertility and reduce pollution in African city slum soils in the context of empowering women food entrepreneurs. Dissertation date: 29 June 2022.
10. Haichao Li (PhD student of Ghent University). Topic: Indirect effects of soil texture on organic matter mineralization through mediation of soil moisture. Role: member of the PhD committee. Dissertation date: 4 May 2022.
11. Carlos Brazao Vieira Alho (PhD student of Wageningen University). Topic: Black carbon in Amazonian Dark Earths: from field to molecular scale. Dissertation date: 11 November 2019. Role: member of the PhD committee.
12. Marijn van de Broek (PhD student of the KU Leuven). Topic: Modeling soil carbon dynamics incorporating $d^{13}C$ dynamics. Dissertation date: 19 June 2018.
13. Chantal Hendriks (PhD student of Wageningen University). Topic: Bridging the gap between the available and required soil data for regional land use analysis. Dissertation date: 5 April 2018.
14. Christoph Häggi (PhD student of the Universität Bremen). Topic: Using lipid biomarkers and their isotopic composition to reconstruct the Late Pleistocene paleoclimate of the Amazon Basin. Dissertation date: 13 March 2017.
15. Marcela Moscol Olivera (PhD student of the University of Amsterdam). Topic: Holocene upper forest line dynamics in the Ecuadorian Andes: a multiproxy study. Dissertation date: 7 December 2010.

Teaching experience:

- Senior Teaching Qualification certificate (SKO) attained in 2018.
- Teaching in Higher Education certificate (BKO) attained in 2011.

Courses coordinated or with substantial contribution (period 2008 - present):

Bachelor Aardwetenschappen (Earth Sciences):

- Veldpracticum Luxemburg (2009-2012) (coordinator)
- Veldrapportage Luxemburg (2009-2012) (coordinator)
- De Chemie van Bodem en Water I (2008-2010)

Bachelor Future Planet Studies (FPS):

- Energietransities (2012-present) (coordinator)
- Plant-Soil Interactions (2018-present)
- Toekomstperspectieven voor de Aarde (2011-present)
- Soils and Environment (2011-2018) (coordinator)
- De Chemie tussen Mens en Natuur I & II (2008-2011) (coordinator)
- Duurzame Dynamiek (2011-2018)
- Kwaliteit van Leven (2009-2018)

Bachelor Science Technology & Innovation (ST&I):

- Innovative Food Systems (2024-present)

Master Earth Sciences:

- Field Course Geoecological Systems (2016 – present) (coordinator)
- Grand Challenges of Human-Ecosystem Interactions (2017-2023) (coordinator)

- Biogeochemical Cycles (2009-present)

Master general:

- Expert supervisor Collective Futures minor, Faculty of Science, University of Amsterdam (2015-present)

Primary supervisor of Bachelor and Master thesis projects:

BSc level: ca. 2 students per year in Bachelor Future Planet Studies; MSc level : ca. 4 students per year in Master Earth Sciences and Master Biological Sciences.

Peer-reviewed publications:

Current **h-index** (February 2026): **38**

Submitted and in press

1. S.E. Nijdam, K. Vancampenhout, B. Jansen, E. Morriën, J. Schellekens, B. Leenders, J. Simons, L. Van den Berg, M. De Graaf, B. Nyssen, B. Muys and E. Desie, **2026**. Rich litter admixture effects on belowground carbon dynamics in temperate forests: from leaf litter input to molecular composition of soil organic matter, *Forest Ecology and Management* (submitted).
2. N. Zhang, B. Jansen, L.H. Cammeraat, J.H.T. Zethof, C. Vogel, F.T. De Vries, **2026**. Drought primarily reduces soil aggregate stability through direct rather than biotic-mediated effects after rapid rewetting by rainfall, *Soil Biology and Biochemistry* (submitted).
3. F. Hou, L. Hinojosa, B. Jansen, E. Morriën and F.T. De Vries, **2026**. Plant species specific effects of root exudates on the stabilization of soil organic matter, *Nature Communications* (submitted).
4. Y. Dong, E. De Rijke, J.C. Sloopweg and B. Jansen, **2026**. Assessing the Temporal Bioaccumulation of Pharmaceuticals in Lettuce Grown in Soil: A Comparative Evaluation of Conventional, Time-Weighted, and Kinetic Modeling Approaches. *Journal of Cleaner Production* (submitted).

Published

3. J.G. Altmann, B. Jansen, M. Palviainen and K. Kalbitz, **2026**. Comparison of Curie-point pyrolysis with tetramethylammonium hydroxide (TMAH) and base catalyzed methanolysis in leaf and root biomarker decomposition studies. *Organic Geochemistry*, 105122.
4. K. Kim, J. Schellekens, W.J. Emsens, R. Van Diggelen, C. Aggenbach, E. Verbruggen, Y. Liczner, A. Klimkowska, F. Tanneberger, W. Kotowski, M.J.I. Briones, B. Jansen and K. Vancampenhout, **2026**. Limited recovery of soil organic matter composition in fen peatlands after rewetting. *Geoderma*, 117646.
5. Y. Dong, E. De Rijke, J.C. Sloopweg and B. Jansen, **2025**. Influence of a Bio-based Fertilizer on Pharmaceuticals Uptake by Wheatgrass in Soil. *Ecotoxicology and Environmental Safety*, 306: 119313.
6. Y. Dong, J.R. Parsons, A. Praetorius, E. De Rijke, J.C. Sloopweg and B. Jansen, **2025**. Understanding the Influence of Bio-Based Fertilizers (BBFs) on Sorption of Pharmaceuticals in Soils: Effects of pH and Organic Matter, *Environmental Research*, 123092.
7. E.J.S. Eder, A. Karami, T.J. Heimovaara, M. Wolthers and B. Jansen, **2025**. Investigating the parameters influencing floc formation. *Journal of Water Process Engineering*, 107126.
8. S.P.C. de Goede, S.E. Hannula, B. Jansen and E. Morriën, **2025**. Fungal-mediated soil aggregation as a mechanism for carbon stabilization, *The ISME Journal*, wraf074.

9. F. Hou, L. Hinojosa, E. Enderle, B. Jansen and E. Morriën, **2025**. Root exudates from drought-affected plants increase soil respiration across a range of grassland species. *Soil Biology and Biochemistry*, 109731.
10. C.L. Thomas, B. Jansen, E.E. van Loon and G.L.B. Wiesenberg, **2025**. Evaluating the applicability of the VERHIB model to a 2600-year peat sequence from Central Germany. *Applied Geochemistry*, 106338.
11. S. Beijer, S. Das, R. Helmus, P. Scheer, B. Jansen and J.C. Sloopweg, **2024**. Urine as a biobased fertilizer: The Netherlands as case study. *Sustainability & Circularity NOW*, a23346930.
12. T.S. Breure, N. Estrada-Carmona, A. Petsakos, E. Gotor, B. Jansen and J.C.J. Groot, **2024**. A systematic review on trade-off analysis in agriculture, *Nature Food*, 5: 211-220.
13. E.A. De Nijs, B. Jansen, S. Absalah, R. Bol and A. Tietema, **2023**. Insight in molecular degradation patterns and co-metabolism during rose waste co-composting, *Biogeochemistry*, 166: 55-66.
14. C.L. Thomas, B. Jansen, S. Czerwinski, M. Gafka, K. Knorr, E.E. van Loon, M. Egli and G.L.B. Wiesenberg, **2023**. Comparison of paleobotanical and biomarker records of mountain peatland and forest ecosystem dynamics over the last 2600 years in Central Germany, *Biogeosciences*, 20: 4893-4914.
15. N.T. Jonkman, K. Kalbitz, H. Bergsma and B. Jansen, **2023**. Soils of urban agriculture sites in Kisumu, Kenya and Ouagadougou, Burkina Faso; past, present, future, *Land*, 12: 12112056
16. Y. Dong, S. Das, J.R. Parsons, A. Praetorius, E. De Rijke, R. Helmus, C. Sloopweg and B. Jansen, **2023**. Simultaneous Detection of Pesticides and Pharmaceuticals in Three Types of Bio-Based Fertilizers by an improved QuEChERS Method Coupled with UHPLC-QTOF-MS/MS, *Journal of Hazardous Materials*, 458: 131992.
17. S. Das, R. Helmus, Y. Dong, S. Beijer, A. Praetorius, J.R. Parsons, B. Jansen, **2023**. Organic Contaminants in Bio-based Fertilizer Treated Soil: Target and Suspect Screening Approaches, *Chemosphere*, 337:, 139261.
18. J. Seving, J. Wallinga, T. Reimann, B. Van Geel, O. Brinkkemper, B. Jansen, M. Romar and C.C. Bakels, **2023**. A multi-staged drift sand geo-archive from the Netherlands: New evidence for the impact of prehistoric land use on the geomorphic stability, soils, and vegetation of aeolian sand landscapes. *Catena*, 224: 106969.
19. K. Nikolaus, S. Mols, J. Schellekens, S. Mols, B. Jansen, M.J.I. Briones, E. Desie, J.T. Cornelis, S. Absalah, B. Muys and K. Vancampenhout, **2023**. Seeing the forest for the fractions – examining soil organic matter fractionation methods using molecular legacies after forest stand conversion, *Geoderma*, 430: 116280.
20. S. Yang, B. Jansen, S. Absalah, K. Kalbitz, F.O. Chunga Castro and E.L.H. Cammeraat, **2022**. Soil organic carbon content and mineralization controlled by the composition, origin and molecular diversity of organic matter: A study in tropical alpine grasslands, *Soil & Tillage Research*, 215: 105203.
21. J.G. Altmann, B. Jansen, H.F. Jungkunst and K. Kalbitz, **2021**. Dynamics of leaf-and root-specific biomarkers during 1-year of litter decomposition, *Forests*, 12: 1732.
22. C.L. Thomas, B. Jansen, E.E. van Loon and G.L.B. Wiesenberg, **2021**. Transformation of *n*-alkanes from plant to soil: a review, *SOIL*, 7: 785-809.
23. E. Desie, B. Muys, B. Jansen, L. Vesterdal, K. Vancampenhout, **2021**. Pedogenic threshold in acidity explains context-dependent tree species effects on soil carbon, *Frontiers in Forests and Global Change*, 679813.

24. E. Nadal-Romero, P. Rubio, V. Kremyda, E. Cammeraat, B. Jansen and T. Lasanta, **2021**. Effects of land abandonment on soil organic carbon and nitrogen stocks and composition of soil organic matter in the Central Spanish Pyrenees, *Catena*, 105441.
25. J.G. Altmann, B. Jansen, M. Palviainen and K. Kalbitz, **2021**. Stability of needle- and root-derived biomarkers during litter decomposition, *Journal of Plant Nutrition and Soil Science*, 184: 65-75.
26. R. Magnússon, L.H. Cammeraat, A. Lücke, B. Jansen, A. Zimmer and J. Recharte, **2020**. Influence of glacial sediments on the chemical quality of surface water in the Ulta valley, Cordillera Blanca, Peru, *Journal of Hydrology*, 125027.
27. M.L. Teunissen van Manen, B. Jansen, F. Cuesta, S. León-Yáñez, W.D. Gosling, **2020**. From leaf to soil: *n*-alkane signal preservation, despite degradation along an environmental gradient in the tropical Andes, *Biogeosciences*, 17: 5465-5487.
28. O. Brock, R. Helmus, K. Kalbitz and B. Jansen, **2020**. Non-target screening of leaf litter derived dissolved organic matter using liquid chromatography coupled to high resolution mass spectrometry (LC-QTOF-MS), *European Journal of Soil Science*, 71: 420-432.
29. O. Brock, K. Kalbitz, S. Absalah and B. Jansen, **2020**. Effects of development stage on organic matter transformation in Podzols, *Geoderma*, 114625.
30. J. Gao, R. Mikutta, B. Jansen, G. Guggenberger, C. Vogel and K. Kalbitz, **2020**. The multilayer model of soil mineral-organic interfaces - a review, *Journal of Plant Nutrition and Soil Science*, *Journal of Plant Nutrition and Soil Science*, 183: 27-41.
31. S. Yang, B. Jansen, S. Absalah, K. Kalbitz and L.H. Cammeraat, **2020**. Selective stabilization of soil fatty acids related to their carbon chain length and presence of double bonds in the Peruvian Andes, *Geoderma*, 373, 114414.
32. S. Yang, B. Jansen, S. Absalah, R. Van Hall, K. Kalbitz and L.H. Cammeraat, **2020**. Lithology and climate controlled soil aggregate size distribution and organic carbon stability in the Peruvian Andes, *SOIL*, 6: 1-15.
33. S. Yang, B. Jansen, K. Kalbitz, F.O. Chunga Castro, R.L. van Hall, L.H. Cammeraat, **2020**. Lithology controlled soil organic carbon stabilization in an alpine grassland of the Peruvian Andes, *Environmental Earth Sciences*, 79: 66.
34. N.T.R.J.M. Jonkman and B. Jansen, **2019**. Urban soil management of marginalized lands: recognizant of history, *Current Opinion in Environmental Sustainability*, 41: 43-48.
35. N.T.R.J.M. Jonkman, E.D. Kooijman, K. Kalbitz, N.R.M. Pouw and B. Jansen, **2019**. Women's agricultural practices and their effects on soil nutrient content in the Nyalenda urban gardens of Kisumu, Kenya, *SOIL*, 5: 303-313.
36. B. Jansen, H. Hooghiemstra, S.P.C. de Goede, and J.M. van Mourik, **2019**. Chapter 5 – Biomarker analysis of soil archives, *Developments in Quaternary Sciences*, 18: 163-222.
37. Y. Zhang, B. van Geel, W.D. Gosling, C.N.H. McMichael, B. Jansen, S. Absalah, G. Sun and X. Wu, **2019**. Local vegetation patterns of a Neolithic environment at the site of Tianluoshan, China, based on coprolite analysis, *Review of Palaeobotany and Palynology*, 271: 15p.
38. M.L. Teunissen van Manen, B. Jansen, F. Cuesta Camacho, S. León-Yáñez, W.D. Gosling, **2019**. Leaf wax *n*-alkane patterns of six tropical montane tree species show species-specific environmental response, *Ecology and Evolution*, 9: 9120-9128.
39. O. Brock, A. Kooijman, K.G.J. Nierop, B. Muys, K. Vancampenhout and B. Jansen, **2019**. Disentangling the effects of parent material and litter input chemistry on molecular soil

- organic matter composition in converted forests in Western Europe, *Organic Geochemistry*, 134: 66-76.
40. S. Yang, L.H. Cammeraat, B. Jansen, M. Den Haan, E.E. van Loon, and J. Recharte, **2018**. Soil organic carbon stocks controlled by lithology and soil depth in a Peruvian alpine grassland of the Andes, *Catena*, 171: 11-21
 41. J. Sevink, B. Van Geel and B. Jansen, **2018**. Early Holocene forest fires, drift sands, and Usselo-type paleosols in the Laarder Wasmeren area near Hilversum, the Netherlands: Implications for the history of Dutch sand landscapes and the potential role of Mesolithic land use, *Catena*, 165: 286-298.
 42. S. Engels, R. Van Oostrom, C. Cerli, J.A.J. Dungait, B. Jansen, J.M. Van Aken, B. Van Geel and P.M. Visser, **2018**. Natural and anthropogenic forcing of Holocene lake ecosystem development at Lake Uddelermeer (The Netherlands), *Journal of Paleolimnology*, 59:329-347.
 43. T.V. Wagner, A. K. Mouter, J.R. Parsons, J. Sevink, J. van der Plicht and B. Jansen, **2018**. Molecular characterization of charcoal to identify adsorbed SOM and assess the effectiveness of common SOM-removing pretreatments prior to radiocarbon dating, *Quaternary Geochronology*, 45: 74-84.
 44. L.H. Cammeraat, J. Sevink, C. Hissler, J. Juilleret, B. Jansen, A.M. Kooijman, L. Pfister and J.M. Verstraten, **2018**. Soils of the Luxembourg Lias Cuesta Landscape, in: *The Luxembourg Gutland Landscape*, p. 107-130, Springer, Cham.
 45. J. Gao, B. Jansen, C. Cerli, R. Helmus, R. Mikutta, S. Dultz, G. Guggenberger, C. Vogel and K. Kalbitz, **2018**. Organic matter coatings of soil minerals affect adsorptive interactions with phenolic and amino acids, *European Journal of Soil Science*, 69: 613-624.
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 52. J.M. van Mourik, T.V. Wagner, J.G. de Boer, and B. Jansen, **2016**. The added value of biomarker analysis to the genesis of Plaggic Anthrosols; the identification of stable fillings used for the production of plaggic manure, *SOIL*, 2: 299-310.

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59. Y.B.M. Refaey, B. Jansen, A.H. El-Shater, A.A. El-Haddad and K. Kalbitz, **2014**. The role of dissolved organic matter in adsorbing heavy metals in clay-rich soils, *Vadose Zone Journal*, 13 (7).
60. J. Sevink, F. Tonneijck, B. Jansen & H. Hooghiemstra, **2014**. Reconstrucción del límite superior del bosque en la parte norte del Ecuador: Algunos resultados del proyecto RUFLE. In F. Cuesta, J. Sevink, L.D. Llambí, B. De Bièvre & J Posner (Eds.), *Avances en investigación para la conservación de los páramos andinos* (pp. 581-601). Lima: CONDESAN.
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63. J.M. van Mourik and B. Jansen, **2013**. The added value of biomarker analysis in palaeopedology; reconstruction of the vegetation during stable periods in a polycyclic driftsand sequence in SE-Netherlands, *Quaternary International*, 306: 14-23.
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65. J.M. van Mourik, A.C. Seijmonsbergen and B. Jansen, **2012**. Geochronology of soils and landforms in cultural landscapes on aeolian sandy substrates, based on radiocarbon and optically stimulated luminescence dating (Weert, SE-Netherlands). In: *Danuta Michalska Nawrocka (Ed.), Radiometric Dating* (pp. 75-114). Rijeka, Croatia: In Tech.

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93. A. Kubátová, B. Jansen and S.B. Hawthorne, **2002**. Thermodynamic and kinetic models for the extraction of essential oils from savory with subcritical water (hot water) and supercritical CO₂. *Journal of Chromatography A*, 975: 175-188.
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96. B. Jansen, M.C. Kotte, A.J. van Wijk and J.M. Verstraten, **2001**. Comparison of Diffusive Gradients in Thin Films and Equilibrium Dialysis for the Determination of Al, Fe(III) and Zn Complexed with Dissolved Organic Matter. *The Science of the Total Environment*, 277: 45-55.

Guest Editorships:

1. Guest Editor of special issue on forest soils and sustainable forestry of Biogeosciences and SOIL (2018).
2. Guest Editor of special issue on dissolved organic carbon of Vadose Zone Journal (2014).

Contributions to conferences:

Membership of organizing committees / scientific committees / convenorships

1. Member of the Scientific Committee of the World Conference of Soil Science (WCSS) 2026, Nanjing, China, June **2026**.
2. Convener of the session “Unraveling Soil Organic Matter Persistence: Mechanisms, Models, and Management Implications across Ecosystems” at the EGU General Assembly, Vienna, Austria, 3-8 May **2026**.
3. Member of the Scientific Committee of the ManuREsource 2026 conference, Wageningen, The Netherlands, March **2026**.
4. Member of the Programme Committee of the NACGEO conference, Noordwijk, The Netherlands, April **2026**.
5. Member of the Scientific Committee of the VII International Congress of the ECSSS, Eurosoil 2025, Seville, Spain, 8-12 September **2025**.
6. Member of the Programme Committee of the NACGEO conference held in Noordwijkerhout, The Netherlands, March **2025**.
7. Convener of the session “Soil organic matter transformation, stabilization and storage” at the IUSS Centennial meeting, Florence, Italy, 19-21 May **2024**.
8. Member of the Scientific Committee of the 6th International ManuREsource conference, Antwerp, Belgium, 20-21 March **2024**.
9. Member of the Programme Committee of the NACGEO conference held in Utrecht, The Netherlands, March **2024**.
10. Convener of the session “Biogeochemical processes controlling carbon, nitrogen, phosphorus and sulfur cycling in the soil-plant system” at the EGU General Assembly, Vienna, Austria, 23-28 April **2023**.
11. Convener of the session “Mechanisms of soil organic matter transformation, stabilization and storage” at the EGU General Assembly, Vienna, Austria, 23-28 April **2023**.
12. Member of the Programme Committee of the NACGEO conference held in Utrecht, The Netherlands, March **2023**.
13. Convener of the sessions “Planetary Boundaries”, “Soil System Science” and “Education and Outreach” at the NACGEO conference held in Utrecht, The Netherlands, March **2023**.
14. Member of the Programme Committee of the NACGEO conference held in Utrecht, The Netherlands, September **2022**.
15. Member of the Scientific Committee of the 6th Nereis Park Conference to be held in Brest, France, August **2022**.
16. Member of the Organizing Committee of the 22nd World Conference of Soil Science to be held in Glasgow, United Kingdom, 31 July - 5 August **2022**.

17. Convener of the session “Biomarkers – the tool to trace recycling and fate of organic carbon and other elements in soil” at the EGU General Assembly, Vienna, Austria, 23-27 May **2022**
18. Member of the Organizing Committee of the Eurosoil 2021 virtual congress, 23-27 August **2021**.
19. Convener of session “6.04 – From source to storage – understanding soil organic matter cycling in space and time using molecular tools” at the Eurosoil 2021 virtual congress, 23-27 August **2021**.
20. Member of the Programme Committee of the NACGEO conference held as a virtual, online conference, 8-9 April **2021**
21. Chair of the Programme Committee of the NACGEO conference held in Utrecht, The Netherlands, 12-13¹ March **2020**.
22. Member of the Steering Committee of the Wageningen Soil Conference 2019 – Understanding soil functions from ped to planet, Wageningen, The Netherlands, 27-30 August **2019**.
23. Chair of the plenary session “Innovative methods for measuring soil functions” at the Wageningen Soil Conference 2019 – Understanding soil functions from ped to planet, Wageningen, The Netherlands, 27-30 August **2019**.
24. Convener of the session “Controls on Soil Organic Matter Dynamics across scales” at the EGU General Assembly, Vienna, Austria, 7-12 April **2019**.
25. Convener of the session “C2.2.1 – Soil organic matter dynamics from molecules to landscapes” at the 21th World Congress of Soil Science, Rio de Janeiro, Brazil, 12-17 August **2018**.
26. Convener of the session “The Role of Universities in relation to the SDGs” at the Critical Perspectives on Governance by Sustainable Development Goals: Water, Food and Climate (CSDS) Conference, University of Amsterdam, Amsterdam, The Netherlands, 25-26 June **2018**.
27. Convener of the session “Soil organic matter turnover: from molecules to ecosystems and back again” at the EGU General Assembly, Vienna, Austria, 8-13 April **2018**.
28. Member of the Organizing Committee and of the Scientific Committee of the Wageningen Soil Conference 2017 – Soils in a Changing World, Wageningen, The Netherlands, 27-31 August **2017**.
29. Chair of the session “Food Security 1” at the Wageningen Soil Conference 2017 – Soils in a Changing World, Wageningen, The Netherlands, 27-31 August **2017**.
30. Convener of the session “Soil organic matter turnover: from molecules to ecosystems and back again” at the EGU General Assembly, Vienna, Austria, 23-28 April **2017**.
31. Convener of the session “Biogeochemical processes in terrestrial ecosystems: New methodological perspectives to trace organic matter cycling and transformation in soils, sediments and the liquid phase” at the EGU General Assembly, Vienna, Austria, 17-22 April **2016**.
32. Member of the Organizing Committee of the Wageningen Soil Conference 2015 – Soils in a Changing World, Wageningen, The Netherlands, 23-27 August **2015**.
33. Convener of the session “Climate Change 1” at the Wageningen Soil Conference 2015– Soils in a Changing World, Wageningen, The Netherlands, 23-27 August **2015**.
34. Convener of the session “Biogeochemical processes in terrestrial ecosystems: New methodological perspectives to trace organic matter cycling and transformation in soils,

¹ The conference was cancelled after the first day in response to governmental measures to halt the spread of Covid-19.

- sediments and the liquid phase” at the EGU General Assembly, Vienna, Austria, 12-18 April **2015**.
35. Co-convener of the session “Dissolved organic matter - linking soils and aquatic systems” at the EGU General Assembly, Vienna, Austria, 27 April-2 May **2014**.
 36. Convener of the session “Molecular, isotopic and associated modeling techniques focusing on terrestrial ecosystem (BG2.7)” at the EGU General Assembly, Vienna, Austria, 8-12 April **2013**.
 37. Co-convener of the session “Dissolved organic matter - linking soils and aquatic systems (SSS8.1)” at the EGU General Assembly, Vienna, Austria 8-12 April **2013**.
 38. Member of the Scientific Committee of Eurosoil 2012, Bari, Italy, 2 - 6 July **2012**.
 39. Convener of the session “Molecular dynamics of soil organic matter: challenges, opportunities and limits” at Eurosoil 2012, Bari, Italy, 2 - 6 July **2012**.
 40. Convener of the session “Molecular and Isotopic Techniques in Terrestrial Ecosystem Studies (SSS7.7)” at the EGU General Assembly, Vienna, Austria, 22-27 April **2012**.
 41. Convener of the session “Ecosystem Services and Soil Use” of the 23rd National Symposium BodemBreed, Lunteren, The Netherlands, 29 - 30 November **2011**.
 42. Convener of the session “Tropical Peatlands, Andosols and Biochar” of the Wageningen Conference on Applied Soil Science, Wageningen, The Netherlands, 18-22 September **2011**.
 43. Co-convener of the session “Molecular Proxies for Studying Biogeochemical Changes in the Environment (SSS1.3)” at the EGU General Assembly, Vienna, Austria, 3 - 6 April **2011**.
 44. Convener of the session “Geocycling and Climate” at the 22nd National Symposium BodemBreed, Lunteren, The Netherlands, 30 November - 1 December **2010**.
 45. Co-convener of the session “The Molecular Biogeochemical Fate of Terrestrial Organic Carbon (SSS40)” at the EGU General Assembly, Vienna, Austria, 2 - 7 May **2010**.
 46. Convener of the session “Historia Ecológica del Páramo” at Paramundi 2^{do} Congreso Mundial de Páramos, Loja, Ecuador. 21 - 25 June **2009**.
 47. Convener of the session “Vegetación Paramuna y Cambio Climático” at Paramundi 2^{do} Congreso Mundial de Páramos, Loja, Ecuador. 21 - 25 June **2009**.
 48. Co-convener of session “The Molecular Biogeochemical Fate of Terrestrial Organic Carbon (SSS38)” at the EGU General Assembly, Vienna, Austria, 19 - 24 April **2009**.
 49. Co-convener of session “Molecular Biogeochemistry: the Fate of Organic Carbon in Soils (SSS29)” at the EGU General Assembly, Vienna, Austria, 13 - 18 April **2008**.
 50. Lead organizer of the RUFLE - Límite Superior del Bosque 2006 workshop, held at the Pontificia Universidad Católica del Ecuador in Quito, Ecuador, 21 - 24 February **2006**.
 51. Co-organizer of the Quaternary Research Organisation 7th and 1st international Postgraduate Paleo-environments Symposium, Amsterdam, The Netherlands, 11 - 13 September **2002**.

Invited presentations / keynote lectures

1. B. Jansen, **2024**. Molecular dynamics of soil organic matter. Institute of Soil Science, Chinese Academy of Science, Nanjing, China.
2. B. Jansen, **2024**. Molecular dynamics of soil organic matter. Agricultural University of Beijing, Beijing, China.
3. B. Jansen, **2024**. Opportunities and risks related to the use of biobased fertilizers (BBFs) to close nutrient loops. Webinar Quality and Risk Assessment of Biobased Fertilizers, ESNI.

4. B. Jansen and S. Beijer, **2023**. Green PEE and restoring the urban-rural nutrient cycle. AGC Annual Symposium, Amsterdam, The Netherlands.
5. B. Jansen and N. Estoppey, **2022**. Potential risks related to the use of biobased fertilizers (BBFs) to close nutrient loops. 3rd International Conference of Strategies toward Green Deal Implementation - Water, Raw Materials & Energy, Cracow, Poland.
6. B. Jansen, **2019**. A transdisciplinary approach to empower women food entrepreneurs in Kenya and Burkina Faso. PE&RC day, Wageningen University, Wageningen, The Netherlands.
7. B. Jansen, **2018**. Tracing the origin of the remarkably stable organic carbon in Plaggic Anthrosols. Thünen Institut, Braunschweig, Germany.
8. B. Jansen, **2018**. Soil organic matter as molecular proxy for past environmental change - opportunities and challenges. KU Leuven, Leuven, Belgium.
9. B. Jansen and N.R.M. Pouw, **2017**. Empowering women food entrepreneurs in Kenya: opportunities and challenges of interdisciplinary research. 72nd UNEP/UNESCO/BMUB International Short Course on Soil & Land Resources for Sustainable Development, Dresden, Germany.
10. B. Jansen, **2017**. Opportunities of the use of molecular and isotopic signatures of soil organic matter in archaeological reconstructions. University of La Laguna, Spain.
11. B. Jansen, **2015**. Soil organic matter as molecular proxy for past environmental change - opportunities and challenges. 5th International Symposium on Soil Organic Matter, Göttingen, Germany.
12. B. Jansen, **2014**. Carbon stabilization mechanisms in volcanic ash soils in the Ecuadorian Andes. 20th World Conference of Soil Science, Jeju, South-Korea.
13. B. Jansen, **2014**. Plant biomarkers in environmental reconstructions: opportunities and challenges. AnaEE Workshop, Ås, Norway.
14. B. Jansen, **2013**. Plant biomarkers in environmental reconstructions: opportunities and challenges. EGU General Assembly, Vienna, Austria. **Winner Best PICO Presentation.**
15. B. Jansen, **2012**. Plant biomarkers in environmental reconstructions: opportunities and challenges. Soil Science Zvieri, Universität Zürich, Switzerland.
16. B. Jansen, **2012**. Molecular proxies in soil science research. EGU General Assembly, Vienna, Austria.
17. B. Jansen, **2011**. Carbon dynamics and the upper forest line in Northern Ecuador. Darwin Center Summer School on Biogeosciences, Utrecht, The Netherlands.
18. B. Jansen, **2011**. A new biomarker approach to reconstruct past vegetation patterns. IGBA Seminar Series, Vrije Universiteit Amsterdam, The Netherlands.
19. B. Jansen, **2008**. Can biomarkers preserved in soils or peat help reconstruct the upper forest line in the Ecuadorian Andes?, Soil science seminar series of the TU-München, Freising, Germany.
20. B. Jansen, **2004**. Measuring and modeling metal-(dissolved) organic matter interactions in soils. International Workshop: Dissolved Organic Matter and the Cycling of Carbon, Nutrients and Metals, Bayreuth, Germany.

Other presentations

21. B. Jansen, **2024**. The fate of multiple persistent organic soil pollutants introduced via biobased fertilizers simultaneously assessed by novel screening methods. IUSS Centennial meeting, Florence, Italy. (oral presentation).
22. B. Jansen, **2023**. Advanced screening methods for potential soil pollution introduced via biobased fertilizers. Wageningen Soil Conference, Wageningen, The Netherlands. (oral presentation).
23. B. Jansen, **2023**. Plant lipids as proxies to trace the origin and dynamics of soil organic carbon. EGU General Assembly, Vienna, Austria. (poster presentation).
24. B. Jansen, **2023**. Plant lipids as proxies to trace the origin and dynamics of soil organic carbon. NACGEO conference, Utrecht, The Netherlands. (poster presentation).
25. B. Jansen, O. Brock and R. Helmus, **2022**. LC-QTOF-MS analyses shed new light on dissolved organic matter composition and podzolization. EGU General Assembly, Vienna, Austria. (oral presentation).
26. B. Jansen, **2022**. Future Planet Studies: embedding soil science in an interdisciplinary sustainability bachelor program. EGU General Assembly, Vienna, Austria. (oral presentation).
27. C.L. Thomas, M. Galka, S. Czerwinski, K.H. Knol, B. Jansen and G.L.B. Wiesenberg, **2022**. New insights into Central European environmental changes during the last 2500 years by multi-proxy analysis of undisturbed Beerberg peatland, Thuringia, Germany. EGU General Assembly, Vienna, Austria. (oral presentation).
28. B. Jansen, **2022**. Plant lipids as proxies to trace the origin and dynamics of soil organic carbon. NACGEO conference, Utrecht, The Netherlands. (poster presentation).
29. S. Dat, R. Helmus, Y. Dong, S. Beijer, A. Praetorius, C. Slootweg, J. Parsons and B. Jansen, **2021**. Concentrations of organic contaminants in bio-based fertilizer treated soil. 2nd International Conference on Strategies toward Green Deal Implementation, virtual conference. (oral presentation).
30. B. Jansen, **2021**. Plant lipids as proxies to trace the origin and dynamics of soil organic carbon. Eurosoil 2021, virtual conference. (poster presentation).
31. B. Jansen, **2019**. Tracing the origin of the remarkably stable organic carbon in plaggic Anthrosols. EGU General Assembly, Vienna, Austria. (oral presentation).
32. N.T. Jonkman, B. Jansen, K. Kalbitz and H. Bergsma, **2019**. The effects of rock dust on soil microbial activity: a study from the urban gardens of Kisumu, Kenya and Ouagadougou, Burkina Faso. EGU General Assembly, Vienna, Austria. (oral presentation).
33. O. Brock, A. Kooijman, K. Vancampenhout, K.G.J. Nierop, B. Muys and B. Jansen, **2019**. Forest conversion effects on SOM composition: disentangling effects of parent material and litter input chemistry. 7th International Symposium on Soil Organic Matter, Adelaide, Australia. (oral presentation).
34. O. Brock, R. Helmus, K. Kalbitz and B. Jansen, **2019**. Aluminium-DOM precipitation: a high-resolution mass spectrometry (LC-QTOF-MS) study. 7th International Symposium on Soil Organic Matter, Adelaide, Australia. (poster presentation).
35. B. Jansen, **2019**. Opportunities and challenges for the use of lipids as molecular proxies in environmental reconstructions. EGU General Assembly, Vienna, Austria. (poster presentation).

36. O. Brock, R. Helmus, B. Jansen and K. Kalbitz, **2018**. Non-target screening of soil and litter derived dissolved organic matter using high resolution mass spectrometry (LC-QTOF-MS). EGU General Assembly, Vienna, Austria. (oral presentation).
37. B. Jansen and G. Wiesenberg, **2018**. The use of plant lipids as molecular proxies to trace the origin and dynamics of soil organic carbon. 21th World Congress of Soil Science, Rio de Janeiro, Brazil. (poster presentation).
38. J. Van Mourik, J. Westerveld and Boris Jansen, **2018**. The origin of organic matter in plaggic Anthrosols based on pollen and biomarker analysis. EGU General Assembly, Vienna, Austria. (poster presentation).
39. O. Brock, A. Kooijman, K. Vancampenhout, K. Nierop, B. Muys and B. Jansen, **2018**. Organic matter in converted forest soils in Western Europe: disentangling the effects of edaphic factors and input differences on its composition. EGU General Assembly, Vienna, Austria. (poster presentation).
40. K. Vancampenhout, E. Desie, O. Brock, M. Briones, B. Frey, K. Heyens, J. Deckers, B. Jansen and B. Muys, **2017**. The ways of the dead: how ecosystems handle their organic matter. Wageningen Soil Conference 2017, Wageningen, The Netherlands. (oral presentation).
41. N.T. Jonkman, E.D. Kooijman, N.R.M. Pouw, J.B. Okeyo-Owour and B. Jansen, **2017**. Sustainability of vegetable gardening in the urban surroundings of Kisumu, Kenya and Ouagadougou, Burkina Faso. Wageningen Soil Conference 2017, Wageningen, The Netherlands. (oral presentation).
42. O. Brock, A. Kooijman, K. Vancampenhout, K.G.J. Nierop, B. Muys and B. Jansen, **2017**. Molecular characterization of organic matter in converted forests in Western Europe; disentangling the effects of edaphic factors and input differences on SOM composition. 6th International Symposium on Soil Organic Matter, Rothamsted, United Kingdom. (oral presentation).
43. O. Brock, B. Jansen, R. Helmus and K. Kalbitz, **2017**. From a 'black box' to a 'grey box': non-target screening of soil derived DOM using LC-QTOF-MS/MS. 6th International Symposium on Soil Organic Matter, Rothamsted, United Kingdom. (poster presentation)
44. J. Van Mourik, B. Jansen and J. Westerveld, **2017**. Biomarker analysis is used in reading soil archives, but do biomarkers survive processes as leaching and digestion? EGU General Assembly, Vienna, Austria. (poster presentation).
45. O. Brock, A. Kooijman, K. Vancampenhout, B. Muys and B. Jansen, **2017**. Molecular characterization of organic matter in converted forests in Western Europe; disentangling the effects of edaphic factors and input differences on SOM composition. EGU General Assembly, Vienna, Austria. (poster presentation).
46. B. Jansen, **2017**. Opportunities and challenges for the use of lipids as molecular proxies in environmental reconstructions. EGU General Assembly, Vienna, Austria. (poster presentation).
47. J.M. van Mourik and B. Jansen, **2016**. The added value of biomarker analysis to the genesis of Plaggic Anthrosols; the identification of stable fillings used for the production of plaggic manure. EGU General Assembly, Vienna, Austria. (poster presentation).
48. Y. Refaey, B. Jansen, A. El-Shater, A. El-Haddad, K. Kalbitz, **2015**. Adsorption of copper, nickel and zinc as related to soil constituents and timing of addition of dissolved organic carbon. Wageningen Soil Conference 2015 – Soils in a Changing World, Wageningen, The Netherlands. (oral presentation).

49. B. Jansen, **2015**. The use of biomarkers to trace carbon transformations and input in soils. Wageningen Soil Conference 2015 – Soils in a Changing World, Wageningen, The Netherlands. (poster presentation).
50. B. Jansen and L.H. Cammeraat, **2015**. Carbon stabilization mechanisms in soils in the Andes. EGU General Assembly, Vienna, Austria. (oral presentation).
51. J. Gao, B. Jansen, C. Cerli and K. Kalbitz, **2015**. Interactions of low molecular weight aromatic acids and amino acids with goethite, kaolinite and bentonite with or without organic matter coating. EGU General Assembly, Vienna, Austria. (oral presentation).
52. B. Jansen and K. Kalbitz, **2015**. The use of biomarkers to trace carbon transformations in soils. EGU General Assembly, Vienna, Austria. (poster presentation).
53. M. Gocke, F. Kessler, J.M. van Mourik, B. Jansen and G. Wiesenberg, **2015**. Exploitation of nutrient- and C-rich paleosols by deep rooting plants in Dutch drift- and coversands. EGU General Assembly, Vienna, Austria. (poster presentation).
54. J.M. van Mourik and B. Jansen, **2015**. The added value of biomarker analysis to the genesis of Plaggic Anthrosols. EGU General Assembly, Vienna, Austria. (poster presentation).
55. B. Jansen, F. Kirkels, J.M. van Mourik and K. Kalbitz, **2014**. The applicability of plant biomarkers to reconstruct palaeo-environments from plaggen and driftsand deposits. 20th World Conference of Soil Science, Jeju, South-Korea. (oral presentation).
56. B. Jansen and K. Kalbitz, **2014**. The use of biomarkers to trace carbon transformations and input in soils. 20th World Conference of Soil Science, Jeju, South-Korea. (poster presentation). **Winner Best Poster Presentation.**
57. J. Acosta, A. Faz, K. Kalbitz, B. Jansen and S. Martinez-Martinez, 2014. Speciation of metals over different chemical fractions in street dust from different uses as basis for risk assessment. 20th World Conference of Soil Science, Jeju, South-Korea. (poster presentation).
58. B. Jansen, H. Hooghiemstra and K. Kalbitz, **2014**. The effect of climate and land-use change on vegetation dynamics and soil carbon stocks in the tephra soils of the Ecuadorian Andes. NAC - 12th Dutch Soil Science Conference, Veldhoven, The Netherlands. (oral presentation).
59. B. Jansen, J. Altmann and K. Kalbitz, **2014**. The use of biomarkers to trace carbon input and transformations in soils. NAC - 12th Dutch Soil Science Conference, Veldhoven, The Netherlands. (poster presentation).
60. R. van Oostrom, J.A.J. Dungait, S. Engels, B. Jansen, J.M. van Aken, B. van Geel, and P.M. Visser, **2014**. Sedimentary pigments, manure biomarkers and palynology indicate abrupt and pre-industrial eutrophication of lake Uddelermeer, The Netherlands. NAC - 12th Dutch Soil Science Conference, Veldhoven, The Netherlands. (oral presentation).
61. V. van den Bos, S. Engels, B. Jansen, C. Cerli, D. Sachse and K. Kalbitz, **2014**. An assessment of the potential of the hydrogen-isotopic composition of lipid biomarkers as a palaeohydrological proxy using independent proxy data. NAC - 12th Dutch Soil Science Conference, Veldhoven, The Netherlands. (oral presentation).
62. F. Kirkels, B. Jansen and K. Kalbitz, **2013**. Consistency of plant-specific *n*-alkane patterns in plaggen ecosystems. EGU General Assembly, Vienna, Austria. (oral presentation).
63. F. Kirkels, B. Jansen and K. Kalbitz, **2013**. Biomarker patterns in present-day vegetation: consistency and variation - A study on plaggen soils. EGU General Assembly, Vienna, Austria. (oral presentation).

64. J. Altmann, B. Jansen, K. Kalbitz and T. Filley, **2013**. Molecular characteristics of continuously released DOM during one year of root and leaf litter decomposition. EGU General Assembly, Vienna, Austria. (poster presentation).
65. J.M. Van Mourik and B. Jansen, **2012**. The added value of biomarker analysis in paleopedology. 14th International Working Meeting on Soil Micromorphology, Lleida, Spain. (oral presentation).
66. B. Jansen, **2012**. A new multi-proxy approach to reconstruct vegetation dynamics from terrestrial archives in the Ecuadorian Andes. 4th International Congress Eurosoil 2012, Bari, Italy. (oral presentation).
67. J.G. Altmann, B. Jansen, K.G.J. Nierop and K. Kalbitz, **2012**. Mobility and stability of root and needle specific biomarkers in a long-term incubation study with continuous leaching. 4th International Congress Eurosoil 2012, Bari, Italy. (oral presentation).
68. B. Jansen, J.M. van Mourik, A. de Vreng and K. Kalbitz, **2012**. Carbon cycling in polycyclic driftsand deposits. EGU General Assembly, Vienna, Austria. (oral presentation).
69. B. Jansen and K. Kalbitz. A new biomarker approach to reconstruct past vegetation patterns, 2012. EGU General Assembly, Vienna, Austria. (oral presentation).
70. J.M. van Mourik and B. Jansen, **2012**. The added value of biomarker analysis in palaeo ecology. EGU General Assembly, Vienna, Austria. (poster presentation).
71. B. Jansen, F.H. Tonneijck, K.G.J. Nierop and K. Kalbitz, **2011**. Carbon stabilization mechanisms in Ecuadorian Andosols. Wageningen Conference on Applied Soil Science, Wageningen, The Netherlands. (oral presentation).
72. B. Jansen, F.H. Tonneijck, K.G.J. Nierop and K. Kalbitz, **2011**. Carbon stabilization mechanisms in Ecuadorian Andosols. International Conference on Soil Organic Matter 2011, Leuven, Belgium. (oral presentation).
73. M.C. Moscol Olivera, J. Bakker, H. Hooghiemstra, B. Jansen, A.M. Cleef and E.E. van Loon, **2011**. A Kyoto Protocol-driven reconstruction of the upper forest line in the deforested Ecuadorian Andes: pollen, vegetation, molecular biomarkers, 2011. INQUA, Bern, Switzerland. (oral presentation).
74. B. Jansen, J. van Mourik, A. de Vreng, **2011**. Carbon cycling in polycyclic driftsand sequences. EGU General Assembly, Vienna, Austria. (oral presentation).
75. J. Altmann, M. Palviainen, B. Jansen and K. Kalbitz, **2011**. Stability of root and needle-derived biomarkers during litter decomposition. EGU General Assembly, Vienna, Austria. (oral presentation).
76. K. Kalbitz, B. Jansen and E.E. van Loon, **2011**. Using preserved extractable lipids in a multi-proxy reconstruction of past vegetation patterns. EGU General Assembly, Vienna, Austria. (poster presentation).
77. J. Altmann, M. Palviainen, B. Jansen and K. Kalbitz, **2011**. Molecular differences of root and needle decomposition. EGU General Assembly, Vienna, Austria. (poster presentation).
78. J.A. Acosta, A. Faz, K. Kalbitz, B. Jansen and S. Martinez-Martinez, **2011**. Heavy metals concentration in street dust from different land uses in Murcia (SE Spain). EGU General Assembly, Vienna, Austria. (poster presentation).
79. J.A. Acosta, A. Faz, K. Kalbitz, B. Jansen and S. Martinez-Martinez, **2011**. Distribution of metals in particle size fractions from street dust of Murcia (Spain). EGU General Assembly, Vienna, Austria. (poster presentation).

80. J. Altmann, M. Palviainen, E.E. van Loon, B. Jansen, and K. Kalbitz, **2010**. Root derived biomarker are slower degraded than leaf derived compounds. Organic matter stabilization and ecosystem functions conference, Presqu'île de Giens, France (oral presentation).
81. B. Jansen, F.H. Tonneijck, H. Hooghiemstra, E.E. van Loon and J.M. Verstraten, **2010**. How an advanced combination of soil science, biogeochemistry, and paleo-ecology helps Ecuadorian cloud forest management. 19th World Congress of Soil Science, Brisbane, Australia (oral presentation).
82. B. Jansen, E.E. van Loon and K. Kalbitz, **2010**. A new biomarker approach to reconstruct past vegetation patterns. Goldschmidt Conference, Knoxville, TN, United States of America (oral presentation).
83. B. Jansen, F.H. Tonneijck, K.G.J. Nierop and J.M. Verstraten, **2010**. Carbon stabilization mechanisms in Ecuadorian Andosols. EGU General Assembly, Vienna, Austria. (oral presentation).
84. J.A. Acosta, A. Faz, K. Kalbitz, B. Jansen, and M.M. Silvia, **2010**. Identification of vulnerable sites in salts affected agricultural soils from South-Eastern Spain. EGU General Assembly, Vienna, Austria. (poster presentation)
85. J.A. Acosta, A. Faz, K. Kalbitz, B. Jansen, and M.M. Silvia, **2010**. Identification of the origin of salts in an agricultural area of SE Spain. EGU General Assembly, Vienna, Austria. (poster presentation).
86. J.M. van Mourik, B. Jansen and A. de Vreng, **2010**. The added value of biomarker analysis in paleopedology. EGU General Assembly, Vienna, Austria. (poster presentation).
87. J. Altmann, B. Jansen, M. Palviainen and K. Kalbitz, **2010**. Molecular markers indicate different dynamics of leaves and roots during litter decomposition. EGU General Assembly, Vienna, Austria. (poster presentation).
88. E.E. van Loon and B. Jansen, **2010**. Using the VERHIB model to reconstruct palaeo-vegetation from preserved biomarker patterns. EGU General Assembly, Vienna, Austria. (poster presentation).
89. B. Jansen and K.G.J. Nierop, **2009**. Preservación de clases específicas de materia orgánica en los suelos volcánicos de los Andes Ecuatorianos. Metodología preliminar. Paramundi 2do Congreso Mundial de Páramos, Loja, Ecuador. (oral presentation).
90. B. Jansen, **2009**. Biomarcadores: Una propuesta metodológica para reconstruir el pasado y monitorear los posibles cambios futuros. Paramundi 2do Congreso Mundial de Páramos, Loja, Ecuador. (oral presentation).
91. F.H. Tonneijck, B. Jansen, K.G.J. Nierop, J.M. Verstraten and J. Sevink, **2009**. Los suelos de cenizas volcánicas como registro fósil: desentrañando la distribución de la materia orgánica. Paramundi 2do Congreso Mundial de Páramos, Loja, Ecuador. (oral presentation)
92. F.H. Tonneijck, B. Jansen, T. Jongmans, M. Velthuis, J. Sevink, J.M. Verstraten and W. Bouten, **2009**. Los suelos de cenizas volcánicas como depósito de carbono. Paramundi 2do Congreso Mundial de Páramos, Loja, Ecuador. (oral presentation)
93. B. Jansen, E.E. van Loon and H. Hooghiemstra, **2009**. The biomarker method: can a novel combination of organic chemical analysis and inverse modeling help reconstruct the past upper forest line in the Ecuadorian Andes? BIOGEOMON conference, Helsinki, Finland. (poster presentation).
94. B. Jansen, K.G.J. Nierop and E.E. van Loon, **2009**. Can lipid biomarkers help us reconstruct the upper forest line in Ecuador? EGU General Assembly, Vienna, Austria. (oral presentation).

95. F.H. Tonneijck and B. Jansen, **2009**. Can soils in the Ecuadorian Andes be used as paleo-ecological records in spite of bioturbation? EGU General Assembly, Vienna, Austria. (oral presentation).
96. K.G.J. Nierop, J. Kaal, B. Jansen, and D.F.W. Naafs, **2009**. Organic matter protection as affected by the mineral soil matrix: allophanic vs. non-allophanic volcanic ash soils. EGU General Assembly, Vienna, Austria. (poster presentation).
97. B. Jansen and K.G.J. Nierop, **2009**. Methyl ketones in high altitude Ecuadorian Andosols confirm excellent conservation of plant-specific n-alkane patterns. EGU General Assembly, Vienna, Austria. (poster presentation).
98. B. Jansen F.H. Tonneijck, E.E. van Loon, J.M. Verstraten and H. Hooghiemstra, **2009**. The biomarker method: a novel combination of organic chemical analysis and inverse modeling to reconstruct the past upper forest line in the Ecuadorian Andes. WOTRO Research Day 2009, Utrecht, The Netherlands (poster presentation).
99. F.H. Tonneijck, B. Jansen, K.G.J. Nierop, J.M. Verstraten and J. Sevink, **2009**. Andean Volcanic Ash Soils as Carbon Sinks. WOTRO Research Day 2009, Utrecht, The Netherlands (poster presentation).
100. B. Jansen F.H. Tonneijck, E.E. van Loon, J.M. Verstraten and H. Hooghiemstra, **2009**. The biomarker method: a novel combination of organic chemical analysis and inverse modeling to reconstruct the past upper forest line in the Ecuadorian Andes. International Scientific Congress on Climate Change, Copenhagen, Denmark (poster presentation).
101. F.H. Tonneijck, B. Jansen, K.G.J. Nierop, J.M. Verstraten and J. Sevink, **2009**. Andean Volcanic Ash Soils as Carbon Sinks. International Scientific Congress on Climate Change, Copenhagen, Denmark (poster presentation).
102. E. Krull, T. Kuhn, B. Jansen, N.S. Haussmann and F.H. Tonneijck, **2008**. Low molecular weight and even over odd n-alkanes in soils, sediments and rocks: where, why and how? Australian Organic Geochemistry Conference 2008, Adelaide, Australia. (oral presentation).
103. E.E. van Loon and B. Jansen, **2008**. An inverse modelling framework to reconstruct the Andean vegetation. EGU General Assembly, Vienna, Austria. (poster presentation).
104. B. Jansen and E.E. van Loon, **2007**. The biomarker method: can a novel combination of organic chemical analysis and inverse modeling help reconstruct the past upper forest line in the Ecuadorian Andes? International Symposium on Organic Matter Dynamics in Agro-Ecosystems, Poitiers, France. (oral presentation).
105. B. Jansen and E.E. van Loon, **2007**. Can biomarkers in soil help map historic upper forest line fluctuations in Ecuador? Soil & Water Conference, Zeist, The Netherlands. (oral presentation).
106. B. Jansen, M. Moscol, F.H. Tonneijck and J.M. Verstraten, **2006**. Preserved organic matter as vegetation record, lipids in Ecuadorian Andisols help find the historical upper forest line. World Conference of Soil Science (WCSS), Philadelphia, USA. (poster presentation).
107. F.H. Tonneijck, B. Jansen, K.G.J. Nierop, M. Moscol and J.M. Verstraten, **2006**. Opportunities of Andisols for paleoecological studies. World Conference of Soil Science (WCSS), Philadelphia, USA. (oral presentation).
108. B. Jansen, **2006**. Can lipid biomarkers help us find the lost upper forest line in the Ecuadorian Andes? NAC - 8th Dutch Soil Science Conference, Veldhoven, The Netherlands. (oral presentation).

109. B. Jansen, **2006**. A novel combination of methods of analysis used to reconstruct the lost Upper Forest Line in Ecuador. Royal Dutch Academy of Arts and Sciences Global Change Symposium, Amsterdam, The Netherlands. (oral presentation).
110. B. Jansen, **2006**. El uso de biomarcadores e isótopos estables de carbono en reconstrucciones ambientales. RUFLE - Límite Superior del Bosque 2006 workshop, Quito, Ecuador. (oral presentation).
111. B. Jansen, **2006**. Stable carbon isotopes, lipid biomarkers and the lost upper forest line in the Ecuadorian Andes. RUFLE - Límite Superior del Bosque 2006 workshop, Quito, Ecuador. (oral presentation).
112. B. Jansen, M. Moscol, F.H. Tonneijck and J.M. Verstraten, **2005**. Preserved organic matter as vegetation record, lipids in Ecuadorian Andisols help find the historical upper forest line. 2nd International Conference on Mechanisms of Soil Organic Matter Stabilization, Asilomar, USA. (poster presentation).
113. B. Jansen and J.M. Verstraten, **2005**. Organic complexation of Al and Fe in acidic soil solutions investigated with DGT, dialysis and speciation modeling. DGT Workshop 2005, Lancaster, United Kingdom. (oral presentation).
114. B. Jansen, K.G.J. Nierop and J.M. Verstraten, **2003**. The influence of solid soil components and Dissolved Organic Matter on the mobility of Al and Fe in acidic sandy soils. 9th Nordic International Humic Substances Society Symposium, Sundsvall, Sweden. (poster presentation).
115. B. Jansen, K.G.J. Nierop and J.M. Verstraten, **2002**. Mobility of Fe and Al in acidic forest soils mediated by (in)soluble complexation with dissolved organic matter and interactions with solid soil components. BIOGEOMON, 4th International Symposium on Ecosystem Behaviour, Reading, United Kingdom. (oral presentation).
116. K.G.J. Nierop, B. Jansen and J.M. Verstraten, **2001**. The influence of pH and metal species on the precipitation of dissolved organic matter (DOM)-metal complexes. International Humic Substances Society Seminar V, Boston, MA, United States of America. (oral presentation).
117. B. Jansen, K.G.J. Nierop and J.M. Verstraten, **2001**. Interactions of dissolved organic matter with Al, Cu, Fe(II) and Fe(III) in soil solutions. International Humic Substances Society Seminar V, Boston, MA, United States of America. (oral presentation).
118. B. Jansen, K.G.J. Nierop and J.M. Verstraten, **2001**. The influence of pH and metal/organic carbon ratios on the (in)soluble complexation of Al, Fe(II) and Fe(III) with dissolved organic matter in acidic forest soil solutions. International Workshop on Ecological Aspects of Dissolved Organic Matter in Terrestrial Ecosystems, Bayreuth, Germany. (oral presentation).

Reports:

1. Final report of the RUFLE program: Informe final de investigación del programa Reconstrucción del Límite Superior del Bosque en Ecuador (RUFLE), formally presented to the Ecuadorian Vice-Minister of the Environment Blgo. Manuel Bravo at the Paramundi 2do Congreso Mundial de Páramos, Loja, Ecuador in 2009.
2. MSc Thesis I: Subcritical water extraction of pesticides from contaminated soils, Energy and Environmental Research Center, Grand Forks, ND, United States of America (1997).
3. MSc Thesis II: The influence of endocrine disrupting pesticides on drink water production in The Netherlands, Vrije Universiteit van Amsterdam, Amsterdam, The Netherlands (1998).

Popular publications and presentations:

Popular publications

1. B. Jansen, F. De Vries and A. Van Wezel, **2022**. We moeten de natuur veel meer inzetten in de strijd tegen klimaatverandering. *Trouw* (opinion paper).
2. J. Van Mourik and B. Jansen, **2016**. Enkdekken ontleed met biomarkers. *Geografie*.
3. H. Hooghiemstra and B. Jansen, **2013**. Waar lag de boomgrens? Pollen en biomarkers beslechten een debat. *Geo.brief*, 4-6.
4. H. Leenaers (editor), **2010**. De Bosatlas van Nederland Waterland, Noordhoff Uitgevers bv, Groningen, The Netherlands.
5. H. Hooghiemstra, J. Bakker and B. Jansen, **2010**. CO₂ vastleggen door bosaanplant in de hoge Andes - Middel erger dan de kwaal, *Geografie*, 19: 16-19.
6. B. Jansen, **2010**. Soil Science the next generation. Lustrumessay voor de Nederlandse Bodemkundige Vereniging.
7. H. Leenaers (editor), **2009**. De Bosatlas van Ondergronds Nederland, Noordhoff Uitgevers bv, Groningen, The Netherlands.
8. B. Jansen and L. Reijnders, **2009**. Biobrandstoffen: het ei van Columbus?, online publication: <http://www.kennislink.nl/publicaties/biobrandstoffen-het-ei-van-columbus>
9. B. van Geel and B. Jansen, **2008**. Klimaatgeschiedenis wijst op belangrijke rol van de zon, online publication: <http://www.kennislink.nl/publicaties/klimaatgeschiedenis-wijst-op-belangrijke-rol-van-de-zon>
10. B. Jansen, **2007**. Klimaatverandering en verzuring van de zee: is het einde van de mossel in zicht?, online publication: <http://www.kennislink.nl/publicaties/klimaatverandering-en-verzuring-van-de-zee-is-het-einde-van-de-mossel-in-zicht>
11. B. Jansen, **2007**. Wereldrecord ijssmelten gebroken!, online publication: <http://www.kennislink.nl/publicaties/wereldrecord-ijssmelten-gebroken>
12. B. Jansen, H. Hooghiemstra, J.M. Verstraten, M. Moscol, F.H. Tonneijck and A.M. Cleef, **2006**. Reforestation in the frame of the Kyoto Protocol: up to which elevation?, *WOTRO Newsletter*, 7: 16.
13. A.C. Seijmonsbergen, L.H. Cammeraat and B. Jansen, **2005**. Watersporen op Mars, online publication: <http://www.kennislink.nl/publicaties/watersporen-op-mars>

Popular presentations

1. B. Jansen, September **2023**. Waarom zijn er in Nederland geen Mammoeten meer? Wakker Worden Kinderlezing, Science Museum NEMO, Amsterdam, The Netherlands.
2. B. Jansen, November **2017**. Stabiele bodemorganische stof bestaat niet! Of toch wel? Presentation at NBV Themadag Organische Stof in de Bodem, Wageningen, The Netherlands.
3. B. Jansen, April **2016**. Waarom zijn er geen bergen in Nederland? Presentation at Science Museum NEMO, Amsterdam aimed at Dutch elementary school teachers to help them bring earth sciences to the classroom.
4. B. Jansen, March **2015**. Veranderde het klimaat vroeger ook? Museum Jeugd Universiteit, MUSEON, The Hague, The Netherlands.

5. B. Jansen, November **2014**. Energie van de toekomst. Workshop for high school geography teachers at the KNAG Onderwijsdag, organized by the Royal Dutch Earth Scientific Society, Schouwburg, Almere, The Netherlands.
6. B. Jansen, April **2014**. Waarom zijn er geen bergen in Nederland? Wakker Worden Kinderlezing, Science Museum NEMO, Amsterdam, The Netherlands.
7. B. Jansen, April **2013**. Wat doet klimaatverandering met Flevoland? Museum Jeugd Universiteit, Nieuwland Erfgoed Museum Lelystad, The Netherlands.
8. B. Jansen, June **2012**. Veranderde het klimaat vroeger ook? Universiteitsdag, Universiteit van Amsterdam, The Netherlands.
9. B. Jansen, December **2011**. Veranderde het klimaat vroeger ook? Museum Jeugd Universiteit, Natuurhistorisch Museum Rotterdam, The Netherlands.
10. B. Jansen, June **2010**. Hoe voorspel je een vulkaanuitbarsting? Wakker Worden Kinderlezing, Science Museum NEMO, Amsterdam, The Netherlands.
11. B. Jansen, November **2008**. Kunnen bergen groeien? Wakker Worden Kinderlezing, Science Museum NEMO, Amsterdam, The Netherlands.