Curriculum Vitae

Personal details:

Name: **Dr. Boris Jansen**

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

Nationality: Dutch

Marital status: Married

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http://nl.linkedin.com/in/borisjansen2

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.

1.0 fte since 2013

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

0.5 fte

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

2004 – 2008: **Postdoc 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 Physical Geography, 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.

Professional experience:

2021 – now: Chair of the Examination Board of the Bachelor Programs Future Planet Studies and Bèta-gamma at the University of Amsterdam.

2016 – now: Chair of the Soil Chemistry Commission of the International Union of Soil Sciences (IUSS).

2010 – now: General Board Member of the Dutch Soil Science Society (NBV): the official representative of the Dutch Soil Sciences in the IUSS and the European Confederation of Soil Science Societies.

2007 – now: Ambassador of the Science and Technology Platform (Platform Bèta Techniek): a Dutch government sponsored institution aimed at promoting higher science education in The Netherlands.

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.

2017 – 2018: Advisory Board Member of the non-profit organization SAMEEN: aimed at increasing sustainability of business processes.

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: President of the Dutch Soil Science Society (NBV).

2004 – 2007: Vice-President of the Dutch Soil Science Society (NBV).

Editorships and Jury memberships:

2018 – now:	Editor-in-Chief of Soil & Tillage Research
2014 – now:	Topical Editor and Editorial Board Member of SOIL.
2018 – 2019:	Guest Editor of special issue on forest soils and sustainable forestry of Biogeosciences and SOIL (joint issue).
2013 – 2014:	Guest Editor of special issue on dissolved organic carbon of Vadose Zone Journal.
2017 – now:	Jury member of the KNGMG Escher Prize.
2014:	Jury member of the MENSA SlimmerIQuiz
2004 – 2014:	Jury member of the NBV Hissink Prize.

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 (basic working proficiency).
- Excellent general laboratory skills as well as specific skills in analytical chemistry.
- Driver license

Postdocs and PhD students supervised:

Postdocs:

1. Dr. Supta Das (Postdoc 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 (on-going).
2. Dr. Baptiste Poursat (Postdoc University of Amsterdam). Topic: bioremediation of pesticide polluted soil in the Broekpolder area (2019-2020).
3. Dr. Susanne Laumann (Postdoc Technical University Delft in joint transdisciplinary project with University of Amsterdam). Topic: Application of soil chemical processes to reduce permeability of water bodies (on-going). (2014-2019).
4. Dr. José Acosta Aviles (Postdoc University of Amsterdam). Topic: Influence of salt contents on heavy metal mobility in calcaric soils of Murcia, Spain (2009-2011).

PhD students as promotor or co-promotor

On-going

1. Yan Dong (PhD student 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. Role: promotor.
2. Carrie Thomas (PhD student in Joint Doctorate between the University of Zürich and the University of Amsterdam). Topic: Improved source apportionment of organic matter in soil, peat, and sediments using inverse modeling (VERHIB 2.0). Role: promotor.
3. Tamara Jonkman (PhD student University of Amsterdam in joint interdisciplinary project with 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 (on-going). Role: promotor.

3. Likoko Eunice (PhD student University of Amsterdam in joint interdisciplinary project with 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 (on-going). Role: co-promotor.
4. Kini Janvier (PhD student University of Amsterdam in joint interdisciplinary project with 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 (on-going). Role: co-promotor.

Completed

5. Olaf Brock (PhD student University of Amsterdam in joint transdisciplinary project with 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.
6. Jiani Zhou (PhD student Technical University Delft in joint transdisciplinary project with University of Amsterdam). Topic: Development of A Nature-Based Geo-Engineering Solution to Reduce Soil Permeability. Dissertation date: 24 June 2020. Role: co-promotor.
7. Milan Teunissen van Manen (PhD student University of Amsterdam). Topic: characterization of Neotropical ecosystems by their modern pollen spectra and organic chemical composition. Dissertation date: 20 May 2020. Role: promotor.
8. Songy Yang (PhD student 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.
9. Bernard Fungo (PhD student University of Amsterdam). Topic: Greening with black; Biochar-soil amendment for low-emission agriculture. Dissertation date: 30 October 2019. Role: promotor.
10. Jiajia Gao (PhD student University of Amsterdam). Topic: The role of organo-mineral interactions in carbon stabilization in soils. Dissertation date: 21 November 2017. Role: co-promotor.
11. Yasser Refaey (PhD student 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 promotion committee

12. Carlos Brazao Vieira Alho (PhD student Wageningen University). Topic: Black carbon in Amazonian Dark Earths: from field to molecular scale. Dissertation date: 11 November 2019. Role: member of the promotion committee.
13. Marijn van de Broek (PhD student KU Leuven). Topic: Modeling soil carbon dynamics incorporating $d^{13}C$ dynamics. Dissertation date: 19 June 2018. Role: member of the promotion committee.
14. Chantal Hendriks (PhD student Wageningen University). Topic: Bridging the gap between the available and required soil data for regional land use analysis. Dissertation date: 5 April 2018. Role: member of the promotion committee.
15. Christoph Häggi (PhD student Unversität Bremen). Topic: Using lipid biomarkers and their sotopic composition to reconstruct the Late Pleistocene paleoclimate of the Amazon Basin. Dissertation date: 13 March 2017. Role: member of the promotion committee.

16. Marcela Moscol Olivera (PhD student University of Amsterdam). Topic: Holocene upper forest line dynamics in the Ecuadorian Andes: a multiproxy study. Dissertation date: 7 December 2010. Role: member of the promotion committee.

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

Master Earth Sciences:

- Grand Challenges of Human-Ecosystem Interactions (2017-present) (coordinator)
- Biogeochemical Cycles (2009-present)

Master general:

- Expert supervisor TESLA 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** (August 2021): **30**

Submitted and in press

1. K. Vancampenhout, M.J.L. Briones, B. Frey, B. Muys, G. Guggenberger and B. Jansen, **2021**. A complex system approach for soil organic matter persistence, *Nature Geoscience* (submitted).
2. C.L. Thoma, B. Jansen, E.E. van Loon and G.L.B. Wiesenberg, **2021**. Transformation of *n*-alkanes from plant to soil: a review, *SOIL* (submitted).
3. O. Brock, R. Helmus, S. Ghafarokhi, T. Heimovaara and B. Jansen, **2021**. Aluminium induced precipitation affecting molecular characteristics of dissolved organic matter determined by high resolution mass spectrometry (LC-QTOF-MS), *European Journal of Soil Science* (submitted).
4. M.L. Teunissen van Manen, B. Jansen, C. McMichael, J. Mesman, C. Aardenburg, J. Roosendaal, L. Broeze, R. Ekelschot, B.H. Lomax, S. Metcalfe, M.L. Cardenas, P. Mothes and W.D. Gosling, **2021**. On the preservation and interpretation of *n*-alkane biomarkers in middle Pleistocene sediments on the Andean flank (Ecuador), *Journal of Quaternary Science* (submitted).

5. M.L. Teunissen van Manen, B. Jansen, S. Absalah and W.D. Gosling, **2021.** On replicating measurements of the plant wax *n*-alkane molecular proxy, *Organic Geochemistry* (submitted).
6. 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* (in press).

Published

7. 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.
8. 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.
9. 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.
10. M.L. Teunissen van Manen, B. Jansen, F. Cuesta, S. León-Yánez, 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.
11. 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.
12. O. Brock, K. Kalbitz, S. Absalah and B. Jansen, **2020**. Effects of development stage on organic matter transformation in Podzols, *Geoderma*, 114625.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.

20. 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.

21. M.L. Teunissen van Manen, B. Jansen, F. Cuesta Camacho, S. Léon-Yánez, 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.

22. 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.

23. 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

24. 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.

25. 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.

26. 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.

27. 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.

28. 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.

29. V. Van den Bos, S. Engels, S.J.P. Bohnke, C. Cerli, B. Jansen, K. Kalbitz, F. Peterse, H. Renssen and D. Sachse, **2018**. Late Holocene changes in vegetation and atmospheric circulation at Lake Uddelermeer (The Netherlands) reconstructed using lipid biomarkers and compound specific δD analysis, *Journal of Quaternary Science*, 33: 100-111.

30. B. Jansen and G.L.B. Wiesenberg, **2017**. Opportunities and limitations related to the application of plant-derived lipid molecular proxies in soil science, *SOIL*, 3: 211-234.

31. J. Gao, B. Jansen, C. Cerli, R. Helmus, R. Mikutta, S. Dultz, G. Guggenberger and K. Kalbitz, **2017**. Competition and surface conditioning effects alter the adsorption of phenolic acids and amino acids to model soil minerals, *European Journal of Soil Science*, 68: 667-677.

32. Y.B.M. Refaey, B.Jansen, W.P. de Voogt, J.R. Parsons, A.A. El-Haddad, A.H. El-Shater and K. Kalbitz, **2017**. The influence of organo-metal interactions on regeneration of exhausted sorbent materials loaded with heavy metals, *Pedosphere*, 27: 579-587.

33. Y.B.M. Refaey, B. Jansen, J.R. Parsons, W.P. de Voogt, S. Bagnis, A. Markus, A.H. El-Shater, A.A. El-Haddad and K. Kalbitz, **2017**. Effects of clay minerals, hydroxides, and timing of dissolved organic matter addition on the competitive sorption of Copper, Nickel and Zinc: A column experiment, *Journal of Environmental Management*, 187: 273-285.

34. M.I. Gocke, F. Kessler, J.M. van Mourik, B. Jansen and G.L.B. Wiesenberg, **2016**. Paleosols can promote root growth of the recent vegetation - a case study from the sandy soil-sediment sequence Rakt, the Netherlands, *SOIL*, 2: 537-549.

35. 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.

36. S. Engels, M.A.J. Bakker, S.J.P. Bohncke, C. Cerli, W.Z. Hoek, B. Jansen, T. Peters, H. Renssen, D. Sachse, J.M. van Aken, V. van den Bos, B. van Geel, R. van Oostrom, T. Winkels and M. Wolma, **2016**. Centennial-scale lake level lowstand at Lake Uddelermeer (The Netherlands) indicates changes in moisture source region prior to the 2.8-kyr event, *The Holocene*, 26: 1075-1091.

37. J. Gao, R. Helmus, C. Cerli, B. Jansen, X. Wang, K. Kalbitz, **2016**. Robust analysis of underivatized free amino acids in soil by hydrophilic interaction liquid chromatography coupled with electrospray tandem mass spectrometry, *Journal of Chromatography A*, 1449: 78-88.

38. S.D. Keesstra, J. Bouma, J. Wallinga, P. Tittonell, P. Smith, A. Cerdà, L. Montanarella, J. Quinton, Y. Pachepsky, W.H. van der Putten, R.D. Bardgett, S. Moolenaar, G. Mol, B. Jansen, and L.O. Fresco, **2016**. The significance of soils and soil science towards realization of the United Nations Sustainable Development Goals, *SOIL*, 2: 111-128.

39. Y.B.M. Refaey, B. Jansen, A.H. El-Shater, A.A. El-Haddad, K. Kalbitz, **2015**. Clay minerals of Pliocene deposits and their potential use for the purification of polluted wastewater in the Sohag area, Egypt, *Geoderma Regional*, 5: 215-225

40. J. Sevink, J.M. Verstraten, A.M. Kooijman, R.A. Loayza-Muro, L. Hoitinga, E.J. Palomino and B. Jansen, **2015**. Rare moss-built microterraces in a high-altitude, acid mine drainage polluted stream (Cordillera Negra, Peru), *Water, Air & Soil Pollution*, 226: 201.

41. B. Jansen, K. Kalbitz and W.H. McDowell, **2014**. Dissolved Organic Matter: Linking Soils and Aquatic Systems, *Vadose Zone Journal*, 13 (7).

42. 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).

43. 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.

44. J.A. Acosta, A. Faz, K. Kalbitz, B. Jansen and S. Martínez-Martínez, **2014**. Partitioning of heavy metals over different chemical fraction in street dust of Murcia (Spain) as a basis for risk assessment, *Journal of Geochemical Exploration*, 144: 298-305.

45. B. Jansen, E.J. de Boer, A.M. Cleef, H. Hooghiemstra, M. Moscol-Olivera, F.H. Tonneijck and J.M. Verstraten, **2013**. Reconstruction of late Holocene forest dynamics in northern Ecuador from biomarkers and pollen in soil cores, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 386: 607-619.

46. 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.

47. F.M.S.A. Kirkels, B. Jansen and K. Kalbitz, **2013**. Consistency of plant-specific *n*-alkane patterns in plaggen ecosystems: A review, *The Holocene,* 23: 1355-1368.

48. 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.

49. J.A. Acosta, A. Faz, K. Kalbitz, B. Jansen and S. Martinez-Martinez, **2011**. Heavy metal concentrations in particle size fractions from street dust of Murcia (Spain) as the basis for risk assessment, *Journal of Environmental Monitoring*, 13: 3087-3096.

50. J.A. Acosta, B. Jansen, K. Kalbitz, A. Faz and S. Martinez-Martinez, **2011**. Salinity increases mobility of heavy metals in soils, *Chemosphere*, 85: 1318-1324.

51. B. Jansen, F.H. Tonneijck and J.M. Verstraten, **2011**. Selective Extraction Methods to Discern Fractions of Aluminium, Iron and Organic Carbon in Montane Volcanic Ash Soils, *Pedosphere*, 21: 549-565.

52. B. van Geel, R. D. Guthrie, J.G. Altmann, P. Broekens, I.D. Bull, F.L. Gill, B. Jansen, A.M. Nieman and B. Gravendeel, **2011**. Mycological evidence of coprophagy from the feces of an Alaskan Late Glacial mammoth, *Quaternary Science Reviews*, 30: 2289-2303.

53. J.A. Acosta, A. Faz, B. Jansen, K. Kalbitz and S. Martinez-Martinez, **2011**. Assessment of salinity status in intensively cultivated soils under semiarid climate, Murcia, SE Spain, *Journal of Arid Environments*, 75: 1056-1066.

54. B. Jansen, E.E. van Loon and K. Kalbitz, **2010**. A new biomarker approach to reconstruct past vegetation patterns*, Geochimica et Cosmochimica Acta*, 74, A459.

55. F.H. Tonneijck, B. Jansen, K.G.J. Nierop, J.M. Verstraten, J. Sevink and L. de Lange, **2010**. Carbon stocks and stabilization mechanisms in volcanic ash soils in natural Andean ecosystems of northern Ecuador, *European Journal of Soil Science,* 61: 392-405.

56. B. Jansen, E.E. van Loon, H. Hooghiemstra and J.M. Verstraten, **2010**. Improved reconstruction of palaeo-environments through unravelling of preserved vegetation biomarker patterns, *Palaeogeography, Palaeoclimatology, Palaeoecology,* 285: 119-130.

57. K.G.J. Nierop and B. Jansen, **2009**. Extensive transformation of organic matter and excellent lipid preservation at the upper, superhumid Guandera páramo, *Geoderma*, 151: 357-369.

58. B. Jansen and K.G.J. Nierop, **2009**. Me-ketones in high altitude Ecuadorian andisols confirm excellent conservation of plant-specific *n*-alkane patterns, *Organic Geochemistry*, 40: 61-69.

59. B. Jansen, N.S. Haussmann, F.H. Tonneijck, W.P. de Voogt and J.M. Verstraten, **2008**. Characteristic straight-chain lipid ratios as a quick method to assess past forest - páramo transitions in the Ecuadorian Andes, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 262: 129-139.

60. T. Scheel, B. Jansen, A.J. van Wijk, J.M. Verstraten and K. Kalbitz, **2008**. Stabilization of dissolved organic matter by aluminium: a toxic effect or stabilization through precipitation?, *European Journal of Soil Science*, 59: 1122-1132.

61. B. Jansen, K.G.J. Nierop, F.H. Tonneijck, F.W. van der Wielen, and J.M. Verstraten, **2007**. Can isoprenoids in leaves and roots of plants along altitudinal gradients in the Ecuadorian Andes serve as biomarkers?, *Plant and Soil*, 291: 181-198.

62. K.G.J. Nierop, B. Jansen, F.H. Tonneijck and J.M. Verstraten, **2007**. Organic matter in volcanic ash soils under forest and páramo along an Ecuadorian altitudinal transect, *Soil Science Society of America Journal*, 71: 1119-1127.

63. B. Jansen, K.G.J. Nierop, J.A. Hageman, A.M. Cleef and J.M. Verstraten, **2006**. The straight-chain lipid biomarker composition of plant species responsible for the dominant biomass

production along two altitudinal transects in the Ecuadorian Andes, *Organic Geochemistry*, 37: 1514-1536.

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65. P. Kraal, B. Jansen, K.G.J. Nierop and J.M. Verstraten, **2006**. Copper complexation by tannic acid in aqueous solution. *Chemosphere*, 65: 2193-2198.
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67. F.H. Tonneijck, J. Van der Plicht, B. Jansen, J.M. Verstraten and H. Hooghiemstra, **2006**. Radiocarbon dating of soil organic matter fractions in Andosols in Northern Ecuador, *Radiocarbon*, 48: 337-353.
68. B. Jansen, K.G.J. Nierop and J.M. Verstraten, **2005**. Mechanisms controlling the mobility of dissolved organic matter, Al and Fe in podzol B horizons. *European Journal of Soil Science*, 56: 537-550.
69. B. Jansen, J. Mulder and J.M. Verstraten, **2005**. Modeling aluminum solubility in intrazonal podzols using WHAM-S/Model V. *Journal of Plant Nutrition and Soil Science*, 168: 325-333.
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74. B. Jansen, **2003**. Review of: Cation binding by humic substances, by E. Tipping. Cambridge University Press, Cambridge. *Geoderma*, 114: 141-142.
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76. 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 CO_2. *Journal of Chromatography A*, 975: 175-188.
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Advisory boards & selected program reviewerships:

1. Member of the scientific advisory board for the SlimLandgebruik research program funded by the Dutch Ministery of Agriculture, Nature and Food Quality (2021)
2. Expert Reviewer for the EU Horizon 2020 Marie Sklodowska Curie ITN round (2020)
3. Expert Reviewer for the EU Horizon 2020 Marie Sklodowska Curie ITN call (2019)
4. Expert Reviewer for the EU Horizon 2020 TWINNING call (2019)
5. External Reviewer for the EU Horizon 2020 COFUND program of the Université Libre de Bruxelles (2018)
6. Member Evaluation Committee for the Netherlands Organisation for Scientific Research (NWO) ALW Open Program (2018).
7. Expert Reviewer for the EU Horizon 2020 Marie Sklodowska Curie ITN call (2016)
8. Expert Reviewer for the Flemish Research Organization (FWO) open program (2014)

Contributions to conferences:

Membership of organizing committees / scientific committees / convenorships

1. Member of the Scientific Committee of the 6th Nereis Park Conference to be held in Brest, France, August **2022**.
2. Member of the Organizing Committee of the Eurosoil 2021 virtual congress, 23-27 August **2021**.
3. 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**.
4. Member of the Programme Committee of the NACGEO conference held as a virtual, online conference, 8-9 April **2021**
5. Chair of the Programme Committee of the NACGEO conference held in Utrecht, The Netherlands, 12-13[1] March **2020**.
6. Member of the Steering Committee of the Wageningen Soil Conference 2019 – Understanding soil functions form ped to planet, Wageningen, The Netherlands, 27-30 August **2019**.
7. Chair of the plenary session "Innovative methods for measuring soil functions" at the Wageningen Soil Conference 2019 – Understanding soil functions form ped to planet, Wageningen, The Netherlands, 27-30 August **2019**.
8. Convener of the session "Controls on Soil Organic Matter Dynamics across scales" at the EGU General Assembly, Vienna, Austria, 7-12 April **2019**.
9. 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**.

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

10. 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**.
11. 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.**
12. 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**.
13. 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**.
14. 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**.
15. 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**.
16. Member of the Organizing Committee of the Wageningen Soil Conference 2015 – Soils in a Changing World, Wageningen, The Netherlands, 23-27 August **2015**.
17. 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**.
18. 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, 12-18 April **2015**.
19. 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**.
20. Convener of the session “Molecular, isotopic and associated modeling techniques focusing on terrestrial ecosystem (BG2.7)” at the EGU General Assemby, Vienna, Austria, 8-12 April **2013**.
21. 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**.
22. Member of the Scientific Committee of Eurosoil 2012, Bari, Italy, 2 - 6 July **2012**.
23. Convener of the session “Molecular dynamics of soil organic matter: challenges, opportunities and limits” at Eurosoil 2012, Bari, Italy, 2 - 6 July **2012**.
24. Convener of the session “Molecular and Isotopic Techniques in Terrestrial Ecosystem Studies (SSS7.7)” at the EGU General Assemby, Vienna, Austria, 22-27 April **2012**.
25. Convener of the session “Ecosystem Services and Soil Use” of the 23nd National Symposium BodemBreed, Lunteren, The Netherlands, 29 - 30 November **2011**.
26. Convener of the session “Tropical Peatlands, Andosols and Biochar” of the Wageningen Conference on Applied Soil Science, Wageningen, The Netherlands, 18-22 September **2011**.
27. 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**.
28. Convener of the session “Geocycling and Climate” at the 22nd National Symposium BodemBreed, Lunteren, The Netherlands, 30 November - 1 December **2010**.

29. 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**.
30. Convener of the session “Historia Ecológica del Páramo“ at Paramundi 2do Congreso Mundial de Páramos, Loja, Ecuador. 21 - 25 June **2009**.
31. Convener of the session “Vegetación Paramuna y Cambio Climático“ at Paramundi 2do Congreso Mundial de Páramos, Loja, Ecuador. 21 - 25 June **2009**.
32. Co-convener of session “The Molecular Biogeochemical Fate of Terrestrial Organic Carbon (SSS38)” at the EGU General Assembly, Vienna, Austria, 19 - 24 April **2009**.
33. 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**.
34. 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**.
35. 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, **2019**. A transdisciplinary approach to empower women food entrepreneurs in Kenya and Burkina Faso. PE&RC day, Wageningen University, Wageningen, The Netherlands.
2. B. Jansen, **2018**. Tracing the origin of the remarkably stable organic carbon in Plaggic Anthrosols. Thünen Institut, Braunschweig, Germany.
3. B. Jansen, **2018**. Soil organic matter as molecular proxy for past environmental change - opportunities and challenges. KU Leuven, Leuven, Belgium.
4. 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.
5. B. Jansen, **2017**. Opportunities of the use of molecular and isotopic signatures of soil organic matter in archaeological reconstructions. University of La Laguna, Spain.
6. 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.
7. B. Jansen, **2014**. Carbon stabilization mechanisms in volcanic ash soils in the Ecuadorian Andes. 20th World Conference of Soil Science, Jeju, South-Korea.
8. B. Jansen, **2014**. Plant biomarkers in environmental reconstructions: opportunities and challenges. AnaEE Workshop, Ås, Norway.
9. B. Jansen, **2013**. Plant biomarkers in environmental reconstructions: opportunities and challenges. EGU General Assembly, Vienna, Austria. **Winner Best PICO Presentation.**
10. B. Jansen, **2012**. Plant biomarkers in environmental reconstructions: opportunities and challenges. Soil Science Zvieri, Universität Zürich, Switzerland.
11. B. Jansen, **2012**. Molecular proxies in soil science research. EGU General Assembly, Vienna, Austria.
12. B. Jansen, **2011**. Carbon dynamics and the upper forest line in Northern Ecuador. Darwin Center Summer School on Biogeosciences, Utrecht, The Netherlands.

13. B. Jansen, **2011**. A new biomarker approach to reconstruct past vegetation patterns. IGBA Seminar Series, Vrije Universiteit Amsterdam, The Netherlands.
14. 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.
15. 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

16. B. Jansen, **2021**. Plant lipids as proxies to trace the origin and dynamics of soil organic carbon. Eurosoil 2021, virtual conference. (poster presentation).
17. B. Jansen, **2019**. Tracing the origin of the remarkably stable organic carbon in plaggic Anthrosols. EGU General Assembly, Vienna, Austria. (oral presentation).
18. 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).
19. 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).
20. 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).
21. B. Jansen, **2019**. Opportunities and challenges for the use of lipids as molecular proxies in environmental reconstructions. EGU General Assembly, Vienna, Austria. (poster presentation).
22. 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).
23. 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).
24. 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).
25. 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).
26. 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).
27. 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).

28. 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).
29. 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)
30. 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).
31. 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).
32. B. Jansen, **2017**. Opportunities and challenges for the use of lipids as molecular proxies in environmental reconstructions. EGU General Assembly, Vienna, Austria. (poster presentation).
33. 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).
34. 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).
35. 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).
36. B. Jansen and L.H. Cammeraat, **2015**. Carbon stabilization mechanisms in soils in the Andes. EGU General Assembly, Vienna, Austria. (oral presentation).
37. 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).
38. B. Jansen and K. Kalbitz, **2015**. The use of biomarkers to trace carbon transformations in soils. EGU General Assembly, Vienna, Austria. (poster presentation).
39. 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).
40. 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).
41. 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).

42. 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**.
43. 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).
44. 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).
45. 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).
46. 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).
47. 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).
48. 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).
49. 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).
50. 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).
51. 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).
52. 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).
53. 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).
54. 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).
55. B. Jansen and K. Kalbitz. A new biomarker approach to reconstruct past vegetation patterns, 2012. EGU General Assembly, Vienna, Austria. (oral presentation).
56. J.M. van Mourik and B. Jansen, **2012**. The added value of biomarker analysis in palaeo ecology. EGU General Assembly, Vienna, Austria. (poster presentation).

57. 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).
58. 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).
59. 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 Ecuadorina Andes: pollen, vegetation, molecular biomarkers, 2011. INQUA, Bern, Switzerland. (oral presentation).
60. B. Jansen, J. van Mourik, A. de Vreng, **2011**. Carbon cycling in polycyclic driftsand sequences. EGU General Assembly, Vienna, Austria. (oral presentation).
61. 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).
62. 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).
63. J. Altmann, M. Palviainen, B, Jansen and K. Kalbitz, **2011**. Molecular differences of root an needle decomposition. EGU General Assembly, Vienna, Austria. (poster presentation).
64. 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).
65. 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).
66. 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).
67. 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).
68. 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).
69. 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).
70. 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)
71. 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).

72. 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).
73. 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).
74. 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).
75. 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).
76. 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).
77. F.H. Tonneijck, B. Jansen, K.G.J. Nierop, J.M. Verstraten and J. Sevink, **2009**. Los suelos de cenizas volcanicas como registro fósil: desentrañando la distribución de la materia orgánica. Paramundi 2do Congreso Mundial de Páramos, Loja, Ecuador. (oral presentation)
78. F.H. Tonneijck, B. Jansen, T. Jongmans, M. Velthuis, J. Sevink, J.M. Verstraten and W. Bouten, **2009**. Los suelos de cenizas volcanicas como depósito de carbono. Paramundi 2do Congreso Mundial de Páramos, Loja, Ecuador. (oral presentation)
79. 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).
80. 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).
81. 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).
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