

**ANDERS MICHELSEN**

Date of birth: April 30, 1961

Place of birth: Copenhagen, Denmark

<http://www1.bio.ku.dk/ansatte/beskrivelse/?id=168460>[Physiological Ecology, Biology, Univ. of Copenhagen](#)<http://orcid.org/0000-0002-9541-8658>[Researcher ID L-5279-2014](#)✉ Biol. Dept., Universitetsparken 15,  
DK-2100 Copenhagen Ø, Denmark

✉ Priv:Åvendingen 30B, 2700 Brønshøj

✉ [andersm@bio.ku.dk](mailto:andersm@bio.ku.dk)

☎ (work) +45 23 39 82 86

☎ (mobile) +45 51 26 89 48

**Place of work**

Professor at Terrestrial Ecology Section, Department of Biology, University of Copenhagen, Universitetsparken 15, DK-2100 Copenhagen Ø, Denmark

**Academic degrees**

1992 Ph.D. degree in Botany obtained from the University of Copenhagen

1989 M.Sc. degree in Biology from the University of Copenhagen

**Positions held**

2012- Full professor in Plant Physiological Ecology, Dept. of Biology, University of Copenhagen

1998-2012 Associate professor at the Department of Biology, Physiological Ecology Group, University of Copenhagen. Lektor MSK since 2009.

1995-1998 Assistant professor at Botanical Inst., Dept. of Plant Ecology, Univ. Copenhagen

1993-1995 Post doctoral fellow at Institute of Terrestrial Ecology, Merlewood Research Station, Cumbria, UK

1993 Research fellow at the Botanical Institute, University of Copenhagen

1993 Deputy ass. professor at the Botanical Museum, Univ. of Copenhagen

**Appointments and duties**

- CO-PI Center for Permafrost (CENPERM), Danish National Research Foundation / Danmarks Grundforskningsfond Center of Excellence, 2012-21
- Board Member of the Arctic Station, Disko, Greenland/ Copenhagen Univ 2013-2021
- Section Head, Terr Ecol Section, Dept of Biology, Copenhagen Univ, 2013-2016
- Leader of the Physiological Ecology Research Group, since 2007
- Member of the board of the Botanical Institute 1999-2002
- Head of Department of Plant Ecology 1999-2002
- Member of Greenland Ecological Monitoring (GEM) coordination group 2006-
- Member of the International Tundra Experiment (ITEX) association 2005-

**External grants received, as coordinator**

- *Nitrogen fixation as a key function in contrasting ecosystems: Climatic and molecular controls*, Det Frie Forskningsråd | Natur og Univers, 2.416.251 DKK (2016-2019)
- *Mosses as a gateway of nitrogen into northern ecosystems (MYCOMOSS)*. EU post doc stipend to Marie Curie fellow Signe Lett, 200.000,- € (2018-2020)
- *Effects of long-term environmental change on carbon fluxes and mycorrhizal diversity in subarctic heath ecosystems*. EU INTERACT Transnational Access 5357€ DKK 40.000,- (2011)
- *Influence of plant-microbial interactions and climate on plant performance and ecosystem C and N pools*. FNU Research grant; 748.800,- DKK (2011-2012).
- *Analytical equipment (GC-MS) for research in physiological ecology*. Carlsberg Foundation; 300.000,- DKK (2010-2011).

- *Nitrogen fixation in the Arctic in a changing climate*; 640.000,- DKK (Faculty Research Grant to post doc (Pernille L. Sørensen), 2008-2010).
- EU stipend to Marie Curie fellow (*MCF-ERICA: Ericoid mycorrhizas and carbon biogeochemistry in subarctic ecosystems*), to post doc (Maria Olsrud) 1.400.000,- DKK, (2006-2010).
- *Environmental controls on plants, microbes and biogeochemical processes in the Arctic*. 792.000,- DKK (FNU rammebevilling 272-06-0230, 2007-9).
- *Effects of climate- and UV-B manipulations on processes and organisms in high arctic terrestrial ecosystems*. 315.000,- DKK (Miljøstyrelsen, 127/01-0205, 2005-6)
- *Spectral calibration for high arctic primary production estimation (SCHAPPE)*; 150.000,- DKK (SNF no 21-03-0454, 2003-4)
- *C and N analyzer for soil and plant analysis*; 503.909,- DKK (SNF no. 21-03-0176, 2003)
- *ECOMASS: Ecosystems research with mass spectrometry*; 850.000,- DKK from SNF (and 200.000,- DKK from Botanical Institute) for an isotope ratio mass spectrometer (SNF no. 1430, 2000).
- Post doc grant ("*Experimental studies of belowground processes...*"); 742.000 DKK. (SNF ref. 11-0611-1. 1993-1995).

### External grants received, with other researchers

- *Center for Permafrost (CENPERM)* phase II. Danish National Research Foundation/Danmarks Grundforskningsfond 2018-2021. Co-PI. Total 40 mill DKK. My share of overhead to BIO 1.000.000,-. DKK.
- *Center for Permafrost (CENPERM)* Danish National Research Foundation/Danmarks Grundforskningsfond 2012-2018. Co-PI. Total 60 mill DKK. My share of overhead to BIO 3.300.000,-. DKK.
- *Climaite 3rd phase*, Villum Kann Rasmussen Foundation, 2012-2014, total 13.000.000,- DKK; my share c. 1.000.000,-
- Nordic Network for Stable Isotope Research (NORDSIR) NORDFORSK, 2010-2013, 826.290,- DKK
- *Stay and Go*. Network on plant establishment, NORDFORSK, 2010-2012, 875.000,- DKK
- *Climaite 2nd phase*, Villum Kann Rasmussen Foundation, 2009-2012, total 12.500.000,- DKK; my share c. 1.500.000,- DKK (incl. 1 year phd co-funding from Univ. of Copenhagen)
- *Climaite, 1st phase* Villum Kann Rasmussen Foundation, 2004-2009, total 25.000.000,- DKK; my share c. 1.400.000,- DKK
- *Equipment for field measurements of photosynthesis, respiration and transpiration in plants*; Danish Natural Science Research Council 2003 (SNF) 397.705,- DKK
- *Multiple environmental changes, effects on arctic organisms and ecosystem processes, 1999-2002* Nordic Arctic Research Programme (NARP)
- *Biogeochemistry in the Arctic...*, SNF 9901759; and *The Arctic Landscape...*, Danish Natural Science Research Council (SNF) 9501046, 1995-2002)
- "*FITES - Fire in Tropical Ecosystems*", Danish Council for Development Research, 1996-2000)
- Funded by the Swedish Environmental Protection Board (127402) 1996-1997

### Scientific peer reviews and evaluations

- Review of research proposals for Natural Environment Research Council, NERC (UK), National Science Foundation, NSF (US), NOW Polar Programme (Netherlands), Research Foundation Flanders FWO (Belgium).
- Evaluation of applicants for assistant professorships at Umeå and Lund Universities (Sweden) and research positions at National Environment Research Institute / Aarhus University and full professorships at University of Copenhagen, Denmark.
- Member of ph.d evaluation committees at University in Lund (Sweden), University of Copenhagen (Denmark) and University of Jyväskylä (Finland).
- Review of papers for the scientific journals: *Nature Climate Change, Global Change Biology, Acta Oecologia, Agroforestry Systems, Ambio, Ecology, New Phytologist, Functional Ecology, Geoderma, Oikos, Antarctic Science, Journal of Tropical Ecology, Soil Biology and Biochemistry, Biodiversity and Conservation, Oecologia, Ecosystems, Biogeochemistry, Nordic Journal of Botany, Plant and Soil, Applied Soil Ecology, Arctic, Antarctic and Alpine Research, Fungal Ecology, Plant Ecology, Ecological Research, PlosOne, Environmental Pollution*.

## Scientific conferences

- Responses to multiple manipulations of arctic ecosystems, Abisko, June 1996 (invited speaker)
- Global change and tundra soil biology, Copenhagen, November 1996
- Scenarios for ecosystem responses to global change, ARTERI, Copenhagen, 1996
- Transport and metabolism in arbuscular mycorrhizas, COST 8.21, Risø, November 1996
- 2. International Conference on Mycorrhizae, Uppsala, Sweden July 1998 (invited speaker)
- GCTE-LUCC Open Science Conference, Barcelona, March 1998
- Nutrient constraints on carbon balances in boreal forests and arctic tundra. Abisko, Sweden, June 1999
- Applications of Stable Isotope Techniques to Ecological Studies. Braunschweig, Germany, May 2000
- Applications of Stable Isotope Techniques to Ecological Studies II. Wellington, New Zealand, April 2004
- Second International Conference on Arctic Research Planning, ICARP II, Copenhagen, November 2005.
- After the Melt – Int. Conference on Ecological Responses to Arctic Climate Change, Aarhus, May 2008
- Climate change. Global risks, challenges, decisions. IARU Science Congress. Copenhagen, March 2009
- Isotopes in Earth System Science. Earth System Science Meeting. NBI, Copenhagen, June 2009 (invited speaker)
- Nutrient constraints on carbon cycling. CLIMMANI & INTERFACE Workshop, Iceland, June 2011
- Stable Isotope studies on carbon and nitrogen cycling. Nordic Network for Stable Isotope Research (NORDSIR) Meeting, Holbæk, October 2011 (invited keynote speaker)

## Research and teaching output

Publications: 209 in peer reviewed journals and books since 1990, >230 publications in total. ISI/Web of Science citation index: 188 papers, 8283 times cited (Oct 2018); average citations per publication: 46.5; h-index: 50.

Completed research supervision of 9 post docs, 68 MSc students, and 18 Ph.D. students.

Present number of post docs 3, Ph.D students 2, MSc students 14.

At University of Copenhagen I am teaching basic and high level courses in Experimental design and statistics, Arctic biology, General ecology, Microbial Ecology, Organism Diversity, Biological Research: Design and Analysis; Population Biology, Methods and sampling in Environmental Management, Nature and Environment, and Plant Ecophysiology, and I am coordinator on a course in Terrestrial ecosystem processes and Global Change, and in Statistics.

## List of students, ph.d and post docs

**Supervised MSc students (68):** Jette Lundsboel Petersen, Charlotte Juhl Vestergaard, Jane Engstrøm Dannesboe, Iben Henriksen (nu Stanhardt), Pernille Lærkedal Sørensen, Susanne König, Mette Thyme, Karen Dahl Jensen, Klaus Steenberg Larsen, Karina Engelbrecht Clemmensen, Anja Hoff Hansen, Lisbeth Rauff, Nathan Russell, Julie Bülow Svendsen, Sita Fabricius, Tina Johnsen, Louise Andresen, Frida Kastrop, Anja Vilsholm, Vivian Danielsen, Jane Kongstad Pedersen, Marie Arndal, Pia Lund Nielsen, Kim Kjærsgaard Nielsen, Christian Lindekrans, Anders Tesgaard, Annebeth Hoffmann, Lasse Kjems, Peter Byskov Vang Dalgaard, Merian Skouw-Rasmussen, Kristine Boesgaard, Lena Folkvard Petersen, Astrid Kappel Nielsen, Sebrina Burchard, Casper Tai Christensen, Sarah Svendsen, Anders Juel, Caroline E Simonsen, Maria Topgaard, Mette Hedegaard, Signe Lett, Michelle Schollert Skovgaard, Nynne Larsen, Hanne Kristine Dyrnum, Therese van Driel, Susanne Munk Andersen, Sisse Pedersen, Kathrine Høyrup, Jesper Mosbacher, Ditte Brogaard Iversen, John Rasmussen, Camille Gry Smenge, Nina Bonke Mikkelsen, Nanna Lundh, Morten Mikkel Rolsted, Nanna Baggesen, Lotte Madsen, Lene Seierø, Julie Andersen, Astrid Emilie Knak Goth, Mette Francke, Emily Pickering Pedersen, Frederikke Høyer, Lisbeth Simonsen, Nor Balder Thane Christensen, Pia Petersen, Aya Tora Permin, Liv Alexa Nobel, Balduin Landl, Mads Bo Wolter Nielsen

**Supervised PhD students (18):** Menassie Gashaw, Enrico Graglia, Karl Emmerton, Erik Aude, Lotte Illeris, Michael Jensen, Magnus Olsson, Heidi Sjørnsen Konestabu, Karina E Clemmensen, Klaus Steenberg Larsen, Pernille Lærkedal Sørensen, Matteo Campioli, Louise C. Andresen, Merete Bang Selsted, Merian Skouw Haugwitz, Marie Porret Merrild, Frida Lindwall, Cecilie Skov Nielsen, Nynne Larsen, Sarah Svendsen

**Supervised post docs (10):** Carola Gehrke, Jorge Castro, Pernille Lærkedal Sørensen, Louise C. Andresen, Maria Olsrud, Riikka Rinnan, Daan Blok, Merian Skouw Haugwitz, Annelein Meisner, Kathrin Rousk

**Current MSc students (14):** Joseph Gaudard, Cathrine Kallestrup, Julie Pedersen Festersen, Emil Alexander Sherman Andersen, Anna Marie Stevnsvig, Else Pedersen, Elisabeth Larsen Kolstad, Kristine Skov, Maj Sofie Paornak D Christensen, Simone Windfeldt-Schmidt, Frederik Grande Zimmermann, Agnieszka Marta Rzepczynska, Anna Polaskova, Maya Anne Nissen Olsen

**Current PhD students (2):** Emily Pickering Pedersen, Laura Helene Rasmussen

**Current Post docs (2):** Marianne Koranda, Signe Lett

### **Guest lecturer**

I have contributed to several ph.d courses at: University of Lund, University of Copenhagen, KVL/LIFE, Copenhagen, and University of Umeå: *Methods in Plant Ecology; Organic Matter in Soil: Pools and Processes; Experimental Design and Statistical Methods in Biology; Ecosystem Processes; Nutrient Cycling in Terrestrial Ecosystems; Dynamics of Organic Matter in Soil; Plant migration, persistence and adaptation in response to environmental change.*

I have contributed to courses in Plant Ecophysiology at KVL/LIFE, Copenhagen, and in Stable Isotopes at Geology, University of Copenhagen

### **Research profile**

My field of research is plant physiological ecology, biogeochemistry and plant ecophysiology. The focus of my research is on interactions between plants, microbes, atmosphere and soil, mainly in terrestrial ecosystems. I study above- and belowground processes in non-managed arctic/alpine, temperate and tropical ecosystems, supplemented with experimental manipulations in growth chambers, greenhouses, nurseries and the field.

The aim is to reveal the consequences of environmental changes such as global warming, nitrogen deposition or changed land use on processes involving soils, plants and microbes, from root/leaf level to ecosystem level. Current activities focus on experimental studies of the effects of climate change (global warming) on nutrient and carbon cycling in arctic and temperate ecosystems. For instance, the role of nitrogen fixation and of the emission of greenhouse gases and biogenic volatile organic compounds (VOCs) from arctic and temperate heath vegetation is studied using long-term climate change related field plots.

As the responsible for advanced isotope ratio mass spectrometers and cavity-ring down laser instruments in our laboratory, stable isotope methodology is frequently used in my research. By the use of stable isotopes ( $^{13}\text{C}$  and  $^{15}\text{N}$ ), both at natural abundance and enrichment levels, one of my main research aims is to increase our understanding of plant uptake of soil nitrogen in various forms, in symbiosis and/or competition with soil microorganisms, and to investigate the role of mycorrhizal fungi in plant nutrition, especially in non-managed ecosystems.

My research group is one of the main players internationally in the attempts to reveal the effects of climate change on decisive biogeochemical and physiological processes and key organisms in natural ecosystems. Several long-term ecosystem manipulation experiments in N Sweden and Greenland, led by me, constitute a permanent attraction for post docs, ph.d and master students, both nationally and internationally. My emphasis on the coupling between above- and belowground processes, biogeochemistry and plant physiological ecology in natural or low-management ecosystems in the Arctic is probably unique in a Danish university context.

## Anders Michelsen - List of publications 1990-2019

<http://orcid.org/0000-0002-9541-8658> [Researcher ID L-5279-2014](https://orcid.org/0000-0002-9541-8658)

Publications: 209 in peer reviewed journals and books since 1990, >230 publications in total.  
ISI/Web of Science citation index: 188 papers, 8283 times cited (October 2018);  
average citations per publication: 46.5; h-index: 50.

- 206.** Goth A., **Michelsen A.**, Rousk K. (2019) Railroad derived nitrogen and heavy metal pollution does not affect nitrogen fixation associated with mosses and lichens at a tundra site in Northern Sweden. *Environmental Pollution* 247; 857-865 <https://doi.org/10.1016/j.envpol.2019.01.101>
- 205.** Zhang W, Jansson P-E, Sigsgaard C, McConnell A, Jørgensen MM, Westergaard-Nielsen A, Lund M, Friborg T, **Michelsen A**, Elberling B. (2019) Model-data fusion to assess year-round CO<sub>2</sub> fluxes for an arctic heath ecosystem in West Greenland (69 °N). *Agricultural and Forest Meteorology* (in press)
- 204.** Thomas H. J. D., I. H. Myers-Smith, A. D. Björkman, S. C. Elmendorf, D. Blok, J. H. C. Cornelissen, B. C. Forbes, R. D. Hollister, S. Normand, J. S. Prevéy, C. Rixen, G. Schaepman-Strub, M. Wilmking, S. Wipf, W. K. Cornwell, J. Kattge, S. J. Goetz, K. C. Guay, J. M. Alatalo, A. Anadon-Rosell, S. Angers-Blondin, L. T. Berner, R. G. Björk, A. Buchwal, A. Buras, **A. Michelsen** ... et al. (2019) Traditional plant functional groups explain variation in economic but not size-related traits across the tundra biome. *Global Ecology and Biogeography* 28:78–95. <https://doi.org/10.1111/geb.12783>
- 203.** Cruz-Paredes C, Frøslev TG, **Michelsen A**, Bang-Andreasen T, Hansen M, Ingerslev M, Skov S, Wallander H, Kjølner R (2019) Wood ash application in a managed Norway spruce plantation did not affect ectomycorrhizal diversity or N retention capacity. *Fungal Ecology* 39, 1-11 <https://doi.org/10.1016/j.funeco.2018.11.002>
- 202.** Fenger-Nielsen R., Hollesen J., Matthiesen H., Andersen E.A.S., Westergaard-Nielsen A., Harmsen H., **Michelsen A.**, Elberling B. (2019). Footprints from the past: The influence of past human activities on vegetation and soil across five archaeological sites in Greenland. *Science of the Total Environment* 654, 895–905. <https://doi.org/10.1016/j.scitotenv.2018.11.018>
- 201.** Phillips C.A., Elberling B., **Michelsen A.** (2019) Soil carbon and nitrogen stocks and turnover following 16 years of warming and litter addition. *Ecosystems* 22, 110-124 <https://doi.org/10.1007/s10021-018-0256-y>
- 200.** Mosbacher J.B, **Michelsen A.**, Stelvig M., Hjermstad-Sollerud H., Schmidt N.M. (2019). Muskoxen modify plant abundance, phenology, and nitrogen dynamics in a High Arctic fen. *Ecosystems* <https://doi.org/10.1007/s10021-018-0323-4>
- 199.** Björkman, AD, Myers-Smith, IH, Elmendorf SC, Normand S, Rüger N, (~120 authors in total) incl **Michelsen, A.**, et al. (2018) Plant functional trait change across a warming tundra biome. *Nature* 562, 57-62 <https://doi.org/10.1038/s41586-018-0563-7>
- 198.** Björkman, AD, Myers-Smith, IH, Elmendorf SC, Normand S, Rüger N, (~100 authors in total) incl **Michelsen, A.**, et al. (2018) Tundra Trait Team: A database of plant traits spanning the tundra biome *Global Ecology and Biogeography* 27, 1402-1411 <http://dx.doi.org/10.1111/geb.12821>
- 197.** Dornelas M., Antão L.H., Moyes F., Bates A.E., Magurran A.E., (~150 authors in total), incl **Michelsen A.**, et al. (2018) BioTIME: a database of biodiversity time series for the Anthropocene. *Global Ecology and Biogeography* 27, 760-786; <http://dx.doi.org/10.1111/geb.12729>
- 196.** Shik J.Z., Rytter W, Arnan X, **Michelsen A.** (2018) Disentangling nutritional pathways linking leafcutter ants and their co-evolved fungal symbionts using stable isotopes. *Ecology* 99, 1999–2009 <http://dx.doi.org/10.1002/ecy.2431>
- 195.** Pedersen E.P., **Michelsen A.**, Elberling B. (2018) *In situ* CH<sub>4</sub> oxidation inhibition and <sup>13</sup>CH<sub>4</sub> labeling reveal methane oxidation and emission patterns in a subarctic heath ecosystem. *Biogeochemistry* 138, 197–213; <https://doi.org/10.1007/s10533-018-0441-2>
- 194.** Salazar-Tortosa D, Castro J, Villar-Salvador P, Vinegla B, Matias L, **Michelsen A**, De Casas RR, Querejeta JJ (2018) The “isohydric trap”: a detrimental feedback between water shortage and nutrient acquisition drives differential

response of European pines under climatic dryness. *Global Change Biology* 24:4069–4083; <https://doi.org/10.1111/gcb.14311>

**193.** Schmidt N.M., Mosbacher J.B., Vesterinen E.J., Roslin T., **Michelsen A.** (2018) Limited dietary overlap amongst resident Arctic herbivores in winter – complementary insights from complementary methods. *Oecologia* 187:689–699; <https://doi.org/10.1007/s00442-018-4147-x>

**192.** van Gestel N, Shi Z, van Groenigen KJ, Osenberg CW, Andresen LC, Dukes JS, Hovenden MJ, Luo Y, **Michelsen A**, Pendall E, Reich PB, Schuur EAG, Hungate BA (2018) Predicting soil carbon loss with warming. *Nature* 554 <http://dx.doi.org/10.1038/nature25745>

**191.** Rousk K., Sorensen P.L., **Michelsen A.** (2018) What drives biological nitrogen fixation in high arctic tundra: Moisture or temperature? *Ecosphere* 9(2): e02117 <http://onlinelibrary.wiley.com/doi/10.1002/ecs2.2117/epdf>

**190.** Blok D., Faucherre S., Banyasz I., Rinnan R., Michelsen A., Elberling B. (2018) Contrasting above- and belowground organic matter decomposition and carbon and nitrogen dynamics in response to warming in High Arctic tundra. *Global Change Biology* 24, 2660–2672; <http://dx.doi.org/10.1111/gcb.14017>

**189.** J. Tang, H. Valolahti, M. Kivimäenpää, A. Michelsen and R. Rinnan (2018) Acclimation of biogenic volatile organic compound emission from subarctic heath under long-term moderate warming *Journal of Geophysical Research: Biogeosciences* 123, 95–105; <http://dx.doi.org/10.1002/2017JG004139>

**188.** Barthelemy, H., Stark S., **Michelsen, A.**, Olofsson J. (2018). Urine is an important nitrogen source for plants irrespective of vegetation composition in an Arctic tundra: insights from a <sup>15</sup>N-enriched urea tracer experiment. *Journal of Ecology* 106, 367–378; <http://dx.doi.org/10.1111/1365-2745.12820>

**187.** Rousk K., Sorensen P.L., **Michelsen A.** (2017) Nitrogen fixation in the High Arctic: A source of ‘new’ nitrogen? *Biogeochemistry* 136, 213–222, <http://dx.doi.org/10.1007/s10533-017-0393-y>

**186.** Pedersen E.P., Elberling B., **Michelsen A.** Seasonal variations in methane fluxes in response to summer warming and leaf litter addition in a subarctic heath ecosystem. *Journal of Geophysical Research: Biogeosciences* 122, 2137–2153; <http://dx.doi.org/10.1002/2017JG003782>

**185.** Ravn N.R., Elberling, B., **Michelsen, A.** (2017) The fate of <sup>13</sup>C<sup>15</sup>N labelled glycine in permafrost and surface soil at simulated thaw in mesocosms from high arctic and subarctic ecosystems. *Plant and Soil* 419, 201–218; <http://dx.doi.org/10.1007/s11104-017-3322-x>

**184.** Nielsen, T.F., Larsen, J.F., **Michelsen, A.**, Bruun, H.H. (2017). Are herbarium mosses reliable indicators of historical nitrogen deposition? *Environmental Pollution* 231, 1201–1207; <http://dx.doi.org/10.1016/j.envpol.2017.04.020>

**183.** Ravn, N.R., Ambus, P., **Michelsen, A.** (2017). Impact of decade-long warming, nutrient addition and shading on emission and carbon isotopic composition of CO<sub>2</sub> from two subarctic dwarf shrub heaths. *Soil Biology and Biochemistry* 111, 15–24 <http://dx.doi.org/10.1016/j.soilbio.2017.03.016>

**182.** Alatalo J.M., Jägerbrand A.K., Juhanson J., **Michelsen A.**, Luptáčík P. (2017) Impacts of twenty years of experimental warming on soil carbon, nitrogen, moisture and soil mites across alpine/subarctic tundra communities. *Scientific Reports* 7, 44489 <http://dx.doi.org/10.1038/srep44489>

**181.** Holmstrup M., Damgaard C., Schmidt I.K., Arndal M.F., Beier C., Mikkelsen T.N., Ambus P., Larsen K.S., Pilegaard K., **Michelsen A.**, Andresen L.C., Haugwitz M., Bergmark L., Priemé A., Zaitsev A.S., Georgieva S., Dam, M., Vestergård M., Christensen S. (2017) Long-term and realistic global change manipulations had low impact on soil biota in temperate heathland. *Scientific Reports* 7, 41388 <http://dx.doi.org/10.1038/srep41388>

**180.** Schmidt N.M., Hardwick, B., Gilg O., Høye, T.T., Krogh P.H., Meltofte H., **Michelsen A.**, Mosbacher J. B., Raundrup K., Reneerkens J., Stewart L., Wirta, H., T. Roslin. (2017) Interaction webs in arctic ecosystems: Determinants of arctic change? *AMBIO* 46 (Suppl. 1), 12–25. <http://dx.doi.org/10.1007/s13280-016-0862-x>

**179.** Tiiva, P., Tang, J., **Michelsen, A.**, and Rinnan, R. (2017) Monoterpene emissions in response to long-term night-time warming, elevated CO<sub>2</sub> and extended summer drought in a temperate heath ecosystem. *Science of the Total Environment* 580, 1056–1067 <http://dx.doi.org/10.1016/j.scitotenv.2016.12.060>

- 178.** Nielsen, C.S., **Michelsen, A.**, Strobel, B.W. Wulff, K., Banyasz, I., Elberling, B. (2017). Correlations between substrate availability, dissolved CH<sub>4</sub>, and CH<sub>4</sub> emissions in an arctic wetland subject to warming and plant removal. *Journal of Geophysical Research - Biogeosciences* 122, 645–660; <http://dx.doi.org/10.1002/2016JG003511>
- 177.** Rousk K., Degboe J., **Michelsen, A.** Bradley R., Bellenger J.-P. (2017) Molybdenum and phosphorus limitation of moss-associated nitrogen fixation in boreal ecosystems. *New Phytologist* 214, 97-107, <http://dx.doi.org/10.1111/nph.14331>
- 176.** Rousk, K., Pedersen, P.A, Dyrnum K., **Michelsen A.** (2017) The interactive effects of temperature and moisture on moss-associated N<sub>2</sub> fixation. *Theoretical and Experimental Plant Physiology* 29, 25-36; <http://dx.doi.org/10.1007/s40626-016-0079-1>
- 175.** Rousk K., **Michelsen A.** (2017) Ecosystem nitrogen fixation throughout the snow-free period in subarctic tundra: Effects of willow and birch litter addition and warming. *Global Change Biology* 23, 1552-1563 <http://dx.doi.org/10.1111/gcb.13418>
- 174.** D'Imperio L., Nielsen C.S., Westergaard-Nielsen A., Michelsen A., Elberling B. (2017) Methane oxidation in contrasting soil types: responses to experimental warming with implication for landscape-integrated CH<sub>4</sub> budget. *Global Change Biology* 23, 966-976 <http://dx.doi.org/10.1111/gcb.13400>
- 173.** Svendsen S.H. Lindwall F., **Michelsen A.** Rinnan R. (2016) Biogenic volatile organic emissions along a high arctic soil moisture gradient. *Science of the Total Environment* 573, 131–138 <http://dx.doi.org/10.1016/j.scitotenv.2016.08.100>
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