

ANDERS MICHELSEN

Date of birth: April 30, 1961

Place of birth: Copenhagen, Denmark

[Anders Michelsen profile at Univ. of Copenhagen](#)[Physiological Ecology, Biology, Univ. of Copenhagen](#)<http://orcid.org/0000-0002-9541-8658>[Researcher ID L-5279-2014](#)✉ Biol. Dept., Universitetsparken 15,
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**Place of work**

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

Academic degrees1992 Ph.D. degree in Botany obtained from the University of Copenhagen, 10th Dec 19921989 M.Sc. degree in Biology from the University of Copenhagen, 2nd May 1989**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

- *RootScan*. Carlsberg Foundation infrastructure grant DKK 35.367,- (2021)
- *High Arctic greening through cryptogamic facilitation (GreenArc)* Det Frie Forskningsråd | Natur og Univers, 2.866.614 DKK (2020-2023)
- *Warm traits*. Hosting post Casper T Christiansen receiving Carlsberg reintegration grant (DKK 617.054,-) and EU Marie-Sklodowska-Curie actions individual fellowship stipend, 200.000,- € (2020-2023)
- *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-Sklodowska-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) 2014, 2020; Research Foundation Flanders FWO (Belgium), Canadian Research Council (NSERC-CRC).
- 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 (2018, 2020).
- 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, Berry Research, Plant and Soil, Applied Soil Ecology, Arctic, Antarctic and Alpine Research, Fungal Ecology, Plant Ecology, Science of the Total Environment, 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.nd 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)
- International tundra experiment (ITEX) conference, Uppsala, Sweden 2015 and Parma, Italy 2019

Research and teaching output

Publications: 230 in peer reviewed journals and books since 1990, >250 publications in total. ISI/Web of Science citation index: 208 papers, 8905 times cited (25 Sept 2019); average citations per publication: 42.5; h-index: 51. Google Scholar h-index: 70 (Feb. 2021).

Completed research supervision of 11 post docs, 79 MSc students, and 18 Ph.D. students.

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

At University of Copenhagen I am teaching basic and high level courses in Advanced Ecology, Plant Ecophysiology, Field Biology, Arctic Biology, Basic Arctic Biology, Introduction to Arctic Ecosystems, and I am coordinator of 4 courses, in: Terrestrial ecosystem processes and Global Change, Methodology and sampling in Environmental Management, Experimental Design and Statistical Analysis, and Biological Research: Design and Analysis.

List of students, ph.d and post docs

Supervised MSc students (79): 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 Kastrup, Anja Vilsholm, Vivian Danielsen, Jane Kongstad Pedersen, Marie Arndal, Pia Lund Nielsen, Kim Kjærsgaard Nielsen, Christian Lindekrans, Anders Tesgaard, Anabeth 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, Emil Alexander Sherman Andersen, Joseph Gaudard, Julie Pedersen Festersen, Anna Marie Stevnsvig, Elisabeth Larsen Kolstad, Else Pedersen, Kristine Skov, Agnieszka Marta Rzepczynska, Lasse Brandt Warning, Maj Sofie Paornak D Christensen, Simone Windfeldt-Schmidt,

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 (11): Carola Gehrke, Jorge Castro, Pernille Lærkedal Sørensen, Louise C. Andresen, Maria Olsrud, Riikka Rinnan, Daan Blok, Merian Skouw Haugwitz, Annelein Meisner, Kathrin Rousk, Marianne Koranda,

Current MSc students (2): Louise Vikjær Bote, Charlotte Amalie Buchard Køhnke,

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

Current Post docs (2): Signe Lett, Casper Tai Christiansen

Guest lecturer

I have contributed and/or coordinated several ph.d courses at: University of Copenhagen, University of Lund, 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; Application of stable isotope techniques to study bio-geochemical processes in terrestrial ecosystems.*

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, plant performance, nutrient availability, plant nitrogen acquisition and the emission of greenhouse gases 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}C and ^{15}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 1990-2021

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

Publications: 235 in peer reviewed journals and books since 1990, >250 publications in total.
ISI/Web of Science citation index: 208 papers, 8905 times cited (Sept. 2019);
average citations per publication: 42.5; h-index: 51.
Google Scholar h-index: 70 (Feb. 2021).

232. Eusébio, R.P., Enghoff, H., Solodovnikov, A., **Michelsen, A.**, Barranco, P., Salgado, J.M., Sendra, A. & Reboleira, A.S.P.S. (2021, in press). Temporal and spatial dynamics of arthropod groups in terrestrial subsurface habitats in central Portugal. *Zoology*
231. Clemmesen K E, Durling M. B., **Michelsen, A.**, Hallin S., Finlay R.D., Lindahl B. D. (2021). A tipping-point in carbon storage when forest expands into tundra is related to mycorrhizal recycling of nitrogen. *Ecology Letters* DOI: 10.1111/ele.13735
230. Baggesen N., Li T., Seco R., Holst T., **Michelsen A.**, Rinnan R. (2021) Phenological stage of tundra vegetation controls bidirectional exchange of BVOCs in a climate change experiment on a subarctic heath . *Global Change Biol.*
229. Dibbern ME, Dietz R., Søndergaard J., **Michelsen A.**, Sonne C. (2021) Mercury exposure and risk assessment for Eurasian otters (*Lutra lutra*) in Denmark. *Chemosphere* <https://doi.org/10.1016/j.chemosphere.2021.129608>
228. Koranda M., **Michelsen A.** (2021) Mosses reduce soil nitrogen availability in a subarctic birch forest via effects on soil thermal regime and sequestration of deposited nitrogen. *Journal of Ecology* 109:1424–1438 <https://doi.org/10.1111/1365-2745.13567>
227. Kropp, H., Michael M. Loranty, Susan M Natali, Alexander L Kholodov, Adrian V Rocha, Isla H. Myers-Smith, Benjamin W Abbott, Jakob Abermann, Elena Blanc-Betes, Daan Blok, Gesche Blume-Werry, Julia Boike, Amy L. Breen, Sean M.P. Cahoon, Casper T. Christiansen, Thomas A. Douglas, Howard E. Epstein, Gerald V Frost, Mathias Goeckede, Toke T. Høye, Steven Douglas Mamet, Jonathan A. O'Donnell, David Olefeldt, Gareth K. Phoenix, Verity G. Salmon, Anna Britta Kristina Sannel, Sharon L. Smith, Oliver Sonnentag, Lydia Vaughn, Mathew Williams, Bo Elberling, Laura Gough, Jan Hjort, Peter M. Lafleur, Eugenie S Euskirchen, Monique Heijmans, Elyn R Humphreys, Hiroki Iwata, Benjamin M. Jones, Torre Jorgenson, Inge Grünberg, Yongwon Kim, James Laundre, Marguerite Mauritz, **Michelsen A.**, Gabriela Schaeppman-Strub, Ken D Tape, Masahito Ueyama, Bang-Yong Lee, Kirsty Langley, Magnus Lund (2020) Shallow soils are warmer under trees and tall shrubs across Arctic and Boreal ecosystems. *Environmental Research Letters* 16, 015001 <https://doi.org/10.1088/1748-9326/abc994>
226. Pedersen E.P., Elberling B., **Michelsen A.** (2020). Foraging deeply: Depth-specific plant nitrogen uptake in response to climate-induced N-release and permafrost thaw in the High Arctic. *Global Change Biology* 26, 6523-6536 <https://doi.org/10.1111/gcb.15306>
225. Ravn N R, **Michelsen A.**, Reboleira A.S. (2020) Decomposition of organic matter in caves. *Frontiers in Ecology and Evolution* <https://doi.org/10.3389/fevo.2020.554651>
224. Kristensen J. A. , **Michelsen A.**, Metcalfe D.B. (2020). Background insect herbivory increases with local elevation but makes minor contribution to element cycling along natural gradients in the Subarctic. *Ecology and Evolution* 10, 11684-11698, <https://doi.org/10.1002/ece3.6803>
223. Pascual, D., J. Åkerman, M. Becher, T. V. Callaghan, T.R. Christensen, E. Dorrepaal, U. Emanuelsson, R. Giesler, D. Hammarlund, E. Hanna, A. Hofgaard, H. Jin, C. Johansson, C. Jonasson, J. Klaminder, J. Karlsson, E. Lundin, **A. Michelsen**, D. Olefeldt, A. Persson, G.K. Phoenix, Z. Rączkowska, R. Rinnan, L. Ström, J. Tang, R.K. Varner, P.A. Wookey & M. Johansson (2020). The missing pieces for better future predictions in subarctic ecosystems: A Torneträsk case study. *Ambio* 50:375–392; <https://doi.org/10.1007/s13280-020-01381-1>
222. Lett S., Teuber L., Krab E., **Michelsen A.**, Olofsson J., Nilsson M.-C., Wardle D., Dorrepaal E. (2020). Mosses modify effects of warmer and wetter conditions on tree seedlings at the alpine treeline. *Global Change Biology* 26:5754–5766 <https://doi.org/10.1111/gcb.15256>

221. Andersen E.A.S., **Michelsen A.**, Fenger-Nielsen R., Hollesen J., Per Lennart Ambus, Elberling B. (2020). Nitrogen isotopes reveal high N retention in plants and soil of old Norse and Inuit deposits along a wet-dry arctic fjord transect in Greenland. *Plant and Soil* <https://doi.org/10.1007/s11104-020-04683-1>
220. Li, T., Tiiva, P., Rinnan, Å., Julkunen-Tiitto, R., **Michelsen, A.** & Rinnan, R. (2020) Long-term effects of elevated CO₂, nighttime warming and drought on plant secondary metabolites in a temperate heath ecosystem *Annals of Botany* 125, 1065-1075, <https://doi.org/10.1093/aob/mcaa037>
219. Hicks, L. C., Leizeaga A., Rousk K., **Michelsen A.**, and Rousk J. (2020). Simulated rhizosphere deposits induce microbial N-mining that may accelerate shrubification in the subarctic. *Ecology* 101: e03094. <https://esajournals.onlinelibrary.wiley.com/doi/epdf/10.1002/ecy.3094>
218. Liu N., **Michelsen A.**, Rinnan R. (2020). Vegetation and soil responses to added carbon and nutrients remain six years after discontinuation of long-term treatments. *Science of the Total Environment* <https://doi.org/10.1016/j.scitotenv.2020.137885>
217. Ravn N.R., Elberling, B., **Michelsen, A.** (2020) Arctic soil carbon turnover controlled by experimental snow addition, summer warming and shrub removal. *Soil Biology & Biochemistry* <https://doi.org/10.1016/j.soilbio.2019.107698>
216. Thomas, H.J.D., Bjorkman, A.D., Myers-Smith, I.H., Elmendorf, S.C., Kattge, J., Diaz, S., Vellend, M., Blok, D., Cornelissen, J.H.C., Forbes, B.C., Henry, G.H.R., Hollister, R.D., Normand, S., Prevéy, J.S., Rixen, C., Schaepman-Strub, G., Wilmking, M., Wipf, S., Cornwell, W.K., Beck, P.S.A., Georges, D., Goetz, S.J., Guay, K.C., Rüger, N., Soudzilovskaia, N.A., Spasojevic, M.J., Alatalo, J.M., Alexander, H.D., Anadon-Rosell, A., Angers-Blondin, S., te Beest, M., Berner, L.T., Bjork, R.G., Buchwal, A., Buras, A., Carbognani, M., Christie, K.S., Collier, L.S., Cooper, E.J., Eberling, B., Eskelinen, A., Frei, E.R., Grau, O., Grogan, P., Hallinger, M., Heijmans, M.M.P.D., Hermanutz, L., Hudson, J.M.G., Johnstone, J.F., Hülber, K., Iturrate-Garcia, M., Iversen, C.M., Jaroszynska, F., Kaarlejarvi, E., Kulonen, A., Lamarque, L.J., Lantz, T., Lévesque, E., Little, C.J., **Michelsen, A.**, Milbau, A., Nabe-Nielsen, J., Nielsen, S.S., Ninot, J.M., Oberbauer, S.F., Olofsson, J., Onipchenko, V.G., Petraglia, A., Rumpf, S.B., Shetti, R., Speed, J.D.M., Suding, K.N., Tape, K.D., Tomaselli, M., Trant, A.J., Treier, U.A., Tremblay, M., Venn, S.E., Vowles, T., Weijers, S., Wookey, P.A., Zamin, T.J., Bahn, M., Blonder, B., van Bodegom, P.M., Bond-Lamberty, B., Campetella, G., Cerabolini, B.E.L., Chapin, F.S. III, Craine, J.M., Dainese, M., Green, W.A., Jansen, S., Kleyer, M., Manning, P., Niinemets, Ü., Onoda, Y., Ozinga, W.A., Peñuelas, J., Poschlod, P., Reich, P.B., Sandel, B., Schamp, B.S., Sheremetiev, S.N., de Vries, F.T. (2020) Global plant trait relationships extend to the climatic extremes of the tundra biome. *Nature Communications* (2020) 11:1351 <https://doi.org/10.1038/s41467-020-15014-4> .
215. Jung J.Y., **Michelsen A.**, Kim M., Nam S., Schmidt N.M., Jung S., Choe Y.H., Lee B.Y., Yoon H.I., Lee Y.K., (2020). Responses of surface SOC to long-term experimental warming vary between different heath types in the High Arctic tundra. *European Journal of Soil Science* 71:752–767 <https://doi.org/10.1111/ejss.12896>
214. Ghirardo A., Lindstein F., Koch K., Buegger F., Schloter M., Albert A., **Michelsen A.**, Winkler J. B., Schnitzler J-P., Rinnan, R. (2020) Origin of VOC emissions from subarctic tundra under global warming. *Global Change Biology* 26, 1908-1925 <https://doi.org/10.1111/gcb.14935>
213. Rasmussen L.H., **Michelsen A.**, Ladegaard-Pedersen P., Nielsen, CC, Elberling B. (2020) Arctic soil water chemistry in dry and wet tundra subject to snow addition, summer warming and herbivory simulation. *Soil Biology and Biochemistry* <https://doi.org/10.1016/j.soilbio.2019.107676>
212. Finderup Nielsen T., Ravn N. R., **Michelsen A.** (2019) Increased CO₂ efflux due to long-term experimental summer warming and litter input in subarctic tundra – CO₂ fluxes at snowmelt, in growing season, fall and winter. *Plant and Soil* 444:365-382 <https://doi.org/10.1007/s11104-019-04282-9>
211. Natali S.M., Watts J.D., Rogers B.M., Potter S., Ludwig S.M., Selbmann A.K., Sullivan P.F., Michelsen A., et al., 2019. Large loss of CO₂ in winter observed across the northern permafrost region. *Nature Climate Change* 9, 852–857 <https://doi.org/10.1038/s41558-019-0592-8>
210. Natali S., J.D. Watts, S. Potter, B.M. Rogers, S. Ludwig, A. Selbmann, P. Sullivan, B. Abbott, K. Arndt, A.A. Bloom, G. Celis, T. Christensen, C. Christiansen, R. Commane, E. Cooper, P.M. Crill, C.I. Czimczik, S. Davydov, J. Du, J. Egan, B. Elberling, S.E. Euskirchen, T. Friborg, H. Genet, J. Goodrich, P. Grogan, M. Helbig, E. Jafarov, J. Jastrow, A. Kalhori, Y. Kim, J.S. Kimball, L. Kutzbach, M. Lara, K. Larsen, B. Lee, Z. Liu, M.M. Loranty, M. Lund, M. Lupascu, N. Madani, A. Malhotra, R. Matamala, J. McFarland, A. McGuire, **A. Michelsen**, C. Minions, W. Oechel, D. Olefeldt, F. Parmentier, N. Pirk, B. Poulter, W. Quinton, F. Rezanezhad, D. Risk, T. Sachs, K. Schaefer, N. Schmidt, E. Schuur, P. Semenchuk, G. Shaver, O. Sonnentag, G. Starr, C. Treat, M. Waldrop, Y. Wang, J. Welker,

- C. Wille, X. Xu, Z. Zhang, Q. Zhuang, and D. Zona. 2019. Synthesis of Winter In Situ Soil CO₂ Flux in pan-Arctic and Boreal Regions, 1989-2017. ORNL DAAC, Oak Ridge, Tennessee, USA. Dataset. <https://doi.org/10.3334/ORNLDAAC/1692>
- 209.** 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>
- 208.** Li T., Holst T., **Michelsen A.**, Rinnan R. (2019) Amplification of plant volatile defence against insect herbivory in a warming subarctic tundra. *Nature Plants* 5, 568–574 <https://doi.org/10.1038/s41477-019-0439-3>
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