Research outputs:

**Direct evidence for modulation of photosynthesis by an arbuscular mycorrhiza-induced carbon sink strength**
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

**Methane emissions from tree stems: a new frontier in the global carbon cycle**
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

**How a 10-day heatwave impacts barley grain yield when superimposed onto future levels of temperature and CO₂ as single and combined factors**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Flue gas cleaning for stoves & boilers**
Research output: Contribution to conference › Poster – Annual report year: 2018 › Research › peer-review

**Ultrafine particles in inhabited areas in the Arctic - From very low to high concentrations**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Variable O₃ episodes' influence on yield and physiology in old and new wheat varieties under a climate change regime with elevated temperature and CO₂ levels**
Research output: Contribution to conference › Poster – Annual report year: 2018 › Research › peer-review

**Carbon Sequestration by Urban Trees**
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2017 › Research › peer-review

**Longtidsmålinger viser overraskende resultat: Bøgeskov øger kulstofoptagelsen med tiden**
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

**Long-term and realistic global change manipulations had low impact on diversity of soil biota in temperate heathland**
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review
Research output: Contribution to conference › Poster – Annual report year: 2015 › Research

A 10-days heatwave around flowering superimposed on climate change conditions significantly affects production of 22 barley accessions
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Assessing the air pollution distribution in busy street of Copenhagen in the further development of a street pollution model
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2015 › Research › peer-review

Genome-wide association study of production and stability traits in barley cultivated under future climate scenarios
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

GWAS of Barley Phenotypes Established Under Future Climate Conditions of Elevated Temperature, CO2, O3 and Elevated Temperature and CO2 Combined
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Impacts of Climate Change on Terrestrial Ecosystem Functioning – An Overview
Research output: Book/Report › Report – Annual report year: 2015 › Commissioned

Jagten på fremtidens planter - ændringer i klimaet udfordre produktivitet og kvalitet
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research

Optimal stomatal behaviour around the world
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Plants increase laccase activity in soil with long-term elevated CO2 legacy
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Responses of enchytraeids to increased temperature, drought and atmospheric CO2: Results of an eight-year field experiment in dry heathland
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Significant decrease in yield under future climate conditions: Stability and production of 138 spring barley accessions
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review
Conclusions and perspectives

Key Indicators of Air Pollution and Climate Change Impacts at Forest Supersites

Latest Achievements on Climate Change and Forest Interactions in a Polluted Environment

Leaf surface wax is a source of plant methane formation under UV radiation and in the presence of oxygen

Towards supersites in forest ecosystem monitoring and research.

UV-induced N2O emission from plants

Antagonism between elevated CO2, nighttime warming, and summer drought reduces the robustness of PSII performance to freezing events

Biomass burning in eastern Europe during spring 2006 caused high deposition of ammonium in northern Fennoscandia

Can barley (Hordeum vulgare L. s.l.) adapt to fast climate changes? A controlled selection experiment
Climate Change, Air Pollution and Global Challenges: Understanding and Perspectives from Forest Research
Research output: Chapter in Book/Report/Conference proceeding » Book chapter – Annual report year: 2014 » Research » peer-review

Improving the performance of infrared reflective night curtains for warming field plots
Research output: Contribution to journal » Journal article – Annual report year: 2013 » Research » peer-review

Multi-factor climate change effects on insect herbivore performance
Research output: Contribution to journal » Journal article – Annual report year: 2013 » Research » peer-review

Net root growth and nutrient acquisition in response to predicted climate change in two contrasting heathland species
Research output: Contribution to journal » Journal article – Annual report year: 2013 » Research » peer-review

Reduction of molecular gas diffusion through gaskets in leaf gas exchange cuvettes by leaf-mediated pores
Research output: Contribution to journal » Journal article – Annual report year: 2013 » Research » peer-review

Response to multi-generational selection under elevated [CO2] in two temperature regimes suggests enhanced carbon assimilation and increased reproductive output in Brassica napus L.
Research output: Contribution to journal » Journal article – Annual report year: 2013 » Research » peer-review

Towards integration of research and monitoring at forest ecosystems in Europe
Research output: Contribution to journal » Journal article – Annual report year: 2013 » Research » peer-review

UV-induced carbon monoxide emission from living vegetation
Research output: Contribution to journal » Journal article – Annual report year: 2013 » Research » peer-review

Forests under climate change and air pollution: Gaps in understanding and future directions for research
Research output: Contribution to journal » Journal article – Annual report year: 2012 » Research » peer-review

High Resilience In Heathland Plants to Changes in Temperature, Drought, and CO2 in Combination: Results from the CLIMAITE Experiment
Research output: Contribution to journal » Journal article – Annual report year: 2012 » Research » peer-review
Interactions between above- and belowground organisms modified in climate change experiments
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Long-term structural canopy changes sustain net photosynthesis per ground area in high arctic Vaccinium uliginosum exposed to changes in near-ambient UV-B levels.
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Soil respiration is stimulated by elevated CO$_2$ and reduced by summer drought: three years of measurements in a multifactor ecosystem manipulation experiment in a temperate heathland (CLIMAITE)
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Solar UV-B effects on PSII performance in Betula nana are influenced by PAR level and reduced by EDU: results of a 3-year experiment in the High Arctic
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Temperate heath plant response to dry conditions depends on growth strategy and less on physiology
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Terrestrial plant methane production
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2012 › Research

Terrestrial plant methane production and emission
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Up-scaling of water use efficiency from leaf to canopy as based on leaf gas exchange relationships and the modeled in-canopy light distribution
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

UV-induced carbon monoxide emission from sand and living vegetation
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Ambient UV-B radiation reduces PSII performance and net photosynthesis in high Arctic Salix arctica
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Ambient UV-B radiation reduces PSII performance and net photosynthesis in high Arctic Salix arctica
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review
Effects of elevated CO2, warming and drought episodes on plant carbon uptake in a temperate heath ecosystem are controlled by soil water status
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Effects of Single and Multifactor Treatments with Elevated Temperature, CO2 and Ozone on Oilseed Rape and Barley
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Estimating daytime ecosystem respiration from eddy-flux data
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Increased [CO2] does not compensate for negative effects on yield caused by higher temperature and [O3] in Brassica napus L.
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Interactive effects of drought, elevated CO2 and warming on photosynthetic capacity and photosystem performance in temperate heath plants
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Interactive effects of elevated CO2, warming, and drought on photosynthesis of Deschampsia flexuosa in a temperate heath ecosystem
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Is methane released from the forest canopy?
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Measurement of carbon dioxide fluxes in a free-air carbon dioxide enrichment experiment using the closed flux chamber technique
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Reduced N cycling in response to elevated CO2, warming, and drought in a Danish heathland
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2011 › Research

Reduced N cycling in response to elevated CO2, warming, and drought in a Danish heathland: Synthesizing results of the CLIMAITE project after two years of treatments
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review
Water use efficiency as a measure to assess forest carbon uptake for different management strategies
Research output: Contribution to conference › Poster – Annual report year: 2009 › Research

Ambient UV-B radiation decreases photosynthesis in high arctic Vaccinium uliginosum
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Biological responses to current fluxes of ultraviolet radiation in High Arctic After the Melt
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research

Biological responses to current UV-B radiation in Arctic regions
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2008 › Research

Biological responses to current UV-B radiation in Arctic regions
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research

Challenges in understanding the risks to natural and semi-natural vegetation from ozone exposure
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

CLIMAITE - a three factor climate change ecosystem manipulation experiment
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2008 › Research

Experimental design of multifactor climate change experiments with elevated CO2, warming and drought: the CLIMAITE project
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Future photosynthetic performance of heath plants - results from the multi-factorial ecosystem experiment CLIMAITE
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research

Linking xylem diameter variations with sap flow measurements
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Plant-ecophysiological response patterns to summer drought, elevated CO2 and warming in a natural temperate heath ecosystem
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research

**Solar ultraviolet-B radiation at Zackenberg: The impact on higher plants and soil microbial communities**
Research output: Contribution to conference › Journal article – Annual report year: 2008 › Research › peer-review

**Studies of plant responses to UV-B radiation 2007**
Research output: Contribution to journal › Book chapter – Annual report year: 2008 › Research

**Water Use Efficiency as a Means of Up Scaling Carbon Flux from Leaf to Stand**
Research output: Contribution to conference › Conference abstract in journal – Annual report year: 2008 › Research

**Abiotic aerobic methane release from plant material**
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research

**Ambient UV-B decreases PSII performance and net photosynthesis under natural irradiance of the high arctic dwarf shrub Salix arctica**
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research

**CLIMAITE - a three factor climate change ecosystem manipulation experiment**
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2007 › Research

**CLIMAITE - manipulation med klimaet**
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Communication

**Combined effects of drought, temperature and CO2 on GHG emissions from temperate shrub-land**
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research

**Denitrification and N2O losses in a heath-land under changing climate conditions**
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research

**Effects of current UV-B fluxes on high arctic vegetation (UV-exclusion experiments)**
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2007 › Research
Klimaændringer og processer og funktion i terrestriske økosystemer
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Klima-tidsmaskinen - hvordan bliver det danske klima anno 2075?
Research output: Contribution to conference › Paper – Annual report year: 2007 › Communication

Plant eco-physiological response patterns to summer drought, elevated CO2 and warming in a semi-natural temperate heath ecosystem
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research

Scaling of carbon fluxes in canopies: Simulation of gross canopy photosynthesis in a beech forest canopy
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research

Scaling of photosynthesis in a Danish beech forest canopy
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2007 › Research

Climaite - a three factor climate change ecosystem manipulation study: Set up and approaches for data analysis
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Continuous flux measurements as a tool to observe stresses in and strains on forests
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Den biologiske tidsmaskine og planternes fysiologiske respons
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Effekter af klima- og UV-B manipulationer på processer og organismer i højarktiske terrestriske økosystemer.
Opsummerende rapport til Miljøstyrelsen
Research output: Book/Report › Report – Annual report year: 2006 › Research

How does prolonged drought affect plant physiological processes? - Focus on the interactions with increased temperature and elevated [CO2] within the CLIMAITE project?
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Klimatidsmaskinen - hvordan vil Danmark påvirkes af den forøgede CO2 koncentration og drivhuseffekt?
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Ozone deposition to forest is dynamic and correlates positive with temperature (poster)
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research
RERAF - a new resource for BIO. Which new experimental possibilities arise?
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Solar ultraviolet-B radiation (UV-B) in Zackenberg: Inter-annual variability and the impact on higher plants and microbial communities
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Studying effects of current UV-fluxes on high arctic vegetation (UV-B exclusion experiments)
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2006 › Research

Study trip to Borneo - Research in the tropical rain forest
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

The Biological Time Machine - Biological responses to multiple environmental and climatic changes, environment and stress
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Transpiration and canopy conductance in a natural and a managed mature stand of European beech
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research

Ambient ultraviolet radiation in the Arctic reduces root biomass and alters microbial community composition but has no effects on microbial biomass
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Ambient UV-radiation decreases photosynthetic performance on high arctic plants
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research

Diurnal pattern in water tension of tree stems begins before bud break and does not cease with leaf fall
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research

Effects of ambient versus reduced UV-B radiation on high arctic Salix arctica assessed by measurements and calculations of chlorophyll a fluorescence parameters from fluorescence transients
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Effects of increased atmospheric CO2 on varieties of oat
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review
Effects of reducing the ambient UV-B radiation in the high Arctic on Salix arctica and Vaccinium uliginosum
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Monitoring effects of ambient UV-B radiation on high arctic vegetation
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2005 › Research

Nighttime ozone deposition is dynamic and correlates positive with temperature (poster)
Research output: Contribution to conference › Poster – Annual report year: 2005 › Research

Transgene expression and fitness of hybrids between GM oilseed rape and Brassica rapa
Ammitzbøll, H., Mikkelsen, T. N. & Bagger Jørgensen, R., 2005, In : Environmental Biosafety Research. 4, p. 3-12
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

CLIMAITE - CLIMaTE change effects on biological processes in Terrestrial Ecosystems. A new Danish global change experiment (poster)
Research output: Contribution to conference › Poster – Annual report year: 2004 › Research

Effects of UV-B radiation on vegetation in Zackenberg
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2004 › Research

Exploitation of future increased CO₂ in varieties of oat, Avena sativa L
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

Five-year measurements of ozone fluxes to a Danish Norway spruce canopy
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Implementation of the optimal stomatal control formulation into a single layer model
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

Research output: Book/Report › Report – Annual report year: 2004 › Research

Ozone deposition to a Danish forest - comparison of flux, stomatal uptake, non-stomatal uptake and multiple indexes
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research
Ozone deposition to a Danish forest - comparison of flux, stomatal uptake, non-stomatal uptake and multiple indexes (lecture and poster)
Research output: Contribution to conference › Poster – Annual report year: 2004 › Research

Photorespiration contributes to stomatal regulation and carbon isotope fractionation: A study with barley, potato and Arabidopsis plants deficient in glycine decarboxylase
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Photosynthesis and UV-B in the high Arctic - does ambient UV-B matter? (poster)
Research output: Contribution to conference › Poster – Annual report year: 2004 › Research

Reduction of the ambient UV-B radiation in the high Arctic increases Fv/Fm in Salix arctica and Vaccinium uliginosum and reduces stomatal conductance and internal CO2 concentration in Salix arctic
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Tree stem diameter variations before bud break and after leaf fall in Fagus sylvatica
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2004 › Research › peer-review

Atmosfærisk deposition til skove
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2003 › Research

Biomasse og produktion
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2003 › Research

Comparison of tree stem diameter variations in beech (Fagus sylvatica L.) in Sorø Denmark and in Scots pine (Pinus sylvestris L.) in Hyytiälä, Finland
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

Eddy kovarians og gradient målinger af fluxen af O3 og NO2
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2003 › Research

Effects of UV-B radiation on arctic perennial plants
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2003 › Research

Effects of UV-B radiation on the high arctic vegetation in Northeast Greenland
Effects of UV-B radiation on vegetation in Zackenberg

Field measurements of atmosphere-biosphere interactions in a Danish beech forest

Ozone exposure indices for ICP-forest observation plots within the Nordic countries. Final project report

Physiology of the tree studies via the trunk. Introduction to three techniques used to study sap flow, diameter variation and respiration, all related to CO2 or/and water fluxes

Test and implementation of a dry deposition module for use in transport-chemistry models for Northern Europe

Climate change in a plant ecophysiological perspective

Comparison of carbon uptake by a coniferous and a deciduous forest in Denmark

CO2 exploitation and genetic diversity in winter varieties of oilseed rape (*Brassica napus*); varieties of tomorrow

Day and night respiration in a beech forest ecosystem

Does the direct effect of atmospheric CO2 concentration on leaf respiration vary with temperature? Responses in two species of Plantago that differ in relative growth rate

Five year measurements of ozone fluxes to a Danish Norway spruce canopy (poster)

Hvad betyder den atmosfæriske ozonkoncentration for ozonoptagelsen i planter? - belyst ved mikrometeorologiske målinger over en nåleskov (poster)
In situ autumn ozone fumigation of mature Norway spruce - Effects on net photosynthesis
Research output: Contribution to journal › Journal article – Annual report year: 2002 › Research › peer-review

Kulstofbinding i skov- og landbrugsøkosystemer
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2002 › Research

Photorespiration contributes to stomatal regulation and carbon isotope fractionation. A study with barley, potato and Arabidopsis plants deficient in the glycine decarboxylase
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2002 › Research

Planteфизiologiske effekter af ambient UV-B stråling på to arter i Nordøstgrønland (poster)
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2002 › Research

UV-B strålingens betydning for den højarktiske vegetation i Nordøstgrønland
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2002 › Research

Climate change in a plant ecophysiological perspective
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2001 › Research › peer-review

Comparisons of measured and modelled ozone deposition to forests in Northern Europe
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

CO₂ balance measurements and modelling for Danish terrestrial areas (poster)
Research output: Contribution to conference › Poster – Annual report year: 2001 › Research

Den øgede drivhuseffekt påvirker respiration og fotosyntese
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Communication

Interactive effects of soil temperature, atmospheric carbon dioxide and soil N on root development, biomass and nutrient uptake of winter wheat during vegetative growth
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Klimaforandringer effekt på det globale kulstofkredsløb
Atmospheric CO$_2$ and mycorrhiza effects on biomass allocation and nutrient uptake of nodulated pea (Pisum sativum L.) plants
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Communication

Kulstof- og vanddamp-fluxe i en bøgeskov ved Sorø
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2000 › Research

Ozon deposition og effekter
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2000 › Research

Ozone uptake by an evergreen forest canopy - temporal variation and possible mechanisms
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

CO$_2$-balance målinger og modellering for danske landområder
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 1999 › Research

Evapotranspiration from a mixed temperate forest in relation to climate and soil moisture
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1999 › Research

Kulstof- og vandbalance gennem fire år i et vestjydsk skovkøsystem
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1999 › Research

Long term measurements of carbon dioxide exchange over a mixed temperate forest in relation to growth increment and variations in climate
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1999 › Research

Ozone and forests - can we link biological risks to economic risks?
Research output: Book/Report › Book – Annual report year: 1999 › Research › peer-review

Ozone uptake by an evergreen forest canopy - temporal variation and possible mechanisms
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1999 › Research

Carbon and water balance for a mixed forest stand in relation to ozone uptake
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1998 › Research
Carbon dioxide fluxes above a coniferous/hardwoods stand in relation to climate - consecutive measurements from 17 months
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1998 › Research

Deposition of ozone to plant canopies - mechanisms and effects
Research output: Contribution to journal › Journal article – Annual report year: 1998 › Research › peer-review

Genetic variation and CO₂ exploitation in winter varieties of oilseed rape (Brassica napus)
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1998 › Research

Ozone deposition in relation to canopy physiology in a mixed conifer forest in Denmark
Research output: Contribution to journal › Journal article – Annual report year: 1999 › Research

Carbon dioxide fluxes above a mixed forest stand in relation to climate - consecutive measurements from 17 months
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1997 › Research

Effects of increased UV-B radiation and elevated levels of tropospheric ozone physiological processes in European Beech (Fagus Sylvatica)
Research output: Contribution to journal › Journal article – Annual report year: 1997 › Research

Acceleration of leaf senescence in Fagus sylvatica L. by low levels of tropospheric ozone demonstrated by leaf colour, chlorophyll fluorescence and chloroplast ultrastructure
Research output: Contribution to journal › Journal article – Annual report year: 1996 › Research › peer-review

Carbon and water balance for a mixed forest stand in relation to ozone uptake
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1996 › Research

Carbon and water balance for a mixed forest stand in relation to ozone uptake
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 1996 › Research

In situ measurements of ozone effects in the forest
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1996 › Research
Spontaneous hybridization between oilseed rape (Brassica napus) and weedy relatives
Research output: Contribution to journal › Journal article – Annual report year: 1996 › Research

Changes in pigment concentration and composition in Norway spruce induced by long-term exposure to low levels of ozone
Research output: Contribution to journal › Journal article – Annual report year: 1995 › Research › peer-review

Long term in situ measurements of gas exchange in a Norway spruce canopy at ambient and elevated ozone levels using a light weight chamber system - System designs and first results
Research output: Contribution to journal › Journal article – Annual report year: 1995 › Research › peer-review

Ozone, CO₂ and water vapour fluxes above a forest
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 1995 › Research

Physiological responses of Fagus sylvatica L. exposed to low levels of ozone in open-top chambers
Research output: Contribution to journal › Journal article – Annual report year: 1995 › Research › peer-review

Exposure of Norway spruce to ozone increases the sensitivity of current year needles to photoinhibition and desiccation
Research output: Contribution to journal › Journal article – Annual report year: 1994 › Research › peer-review

Ecophysiological studies of beech (Fagus sylvatica L.) and Norway spruce (Picea abies (L.) Karst) exposed to low levels of ozone
Mikkelsen, T. N., 1993, University of Copenhagen.

Gensplejset raps - en risiko for naturen?
Research output: Contribution to journal › Journal article – Annual report year: 1993 › Communication

Microbial and ecophysiological response to manipulation of the atmospheric input to a spruce forest in Denmark
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 1992 › Research › peer-review

Physiological effects of ozone on beech (Fagus sylvatica L.) under semi-field conditions
Research output: Contribution to journal › Journal article – Annual report year: 1990 › Research › peer-review

Responses to ozone of insects feeding on a crop and a weed species
Research output: Contribution to journal › Journal article – Annual report year: 1989 › Research › peer-review

Projects:
**Traffic controlled by Air Quality - Organic City**
Mikkelsen, T. N. & Pereira, F. C.
01/10/2017 → 31/03/2018
Project: Research

**ÉCLAIRE: Effects of Climate Change on Air Pollution and Response Strategies for European Ecosystems**
Mikkelsen, T. N., Beier, C. & Albert, K. R.
01/10/2011 → 30/09/2015
Project: Research

**Climate-CAFE: Climate Change Adaptability of cropping and Farming systems for Europe**
Mikkelsen, T. N. & Hauggaard-Nielsen, H.
01/01/2015 → 01/09/2018
Project: Research

**CLIMAITE: Climate change in Terrestrial Ecosystems (CLIMAITE)**
Mikkelsen, T. N., Beier, C., Ambus, P. & Pilegaard, K.
01/01/2004 → 30/04/2016
Project: Research

**INCREASE: INCREASE - climate change effects on shrublands.**
Mikkelsen, T. N.
01/04/2009 → 31/03/2013
Project: Research

**UVWarm: UV-stimulated nitrous oxide emissions, the ignored part in atmospheric warming (UVwarm)**
Mikkelsen, T. N.
01/07/2018 → 30/06/2021
Project: Research

**AnaEE, Denmark: AnaEE, Denmark Analysis and Experimentation on Ecosystems**
Mikkelsen, T. N.
01/01/2018 → 31/12/2022
Project: Research

**AnaEE: AnaEE (international, EU) Analysis and Experimentation on Ecosystems**
Mikkelsen, T. N., Ibrom, A. & Larsen, K. S.
01/01/2012 → 31/07/2016
Project: Research

**Plant Uptake of Environmental Chemicals**
Jensen, C. K., Trapp, S., Mikkelsen, T. N. & Rein, A.
Technical University of Denmark
01/11/2016 → 10/12/2020
Project: PhD

**Climate Change Effects to Plant Ecosystems**
Institut, samfinansiering
01/01/2011 → 24/09/2014
Project: PhD

**Activities:**

**EU COST (External organisation)**
Teis Nørgaard Mikkelsen (Member)
24 Oct 2018 → 23 Oct 2022
Activity: Membership › Membership of research networks or expert groups

International Conference on Ozone and Plant Ecosystems
Teis Nørgaard Mikkelsen (Participant)
21 May 2018 → 25 May 2018
Activity: Attending an event › Participating in or organising a conference

Forests and Climate symposium - Oak Spring Garden Foundation, Virginia, USA
Teis Nørgaard Mikkelsen (Participant)
25 Apr 2018 → 28 Apr 2018
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Characteristics of BVOC emissions from a Swedish boreal forest. Using chambers to capture biogenic volatile organic compounds (BVOCs) from trees and forest floor
Teis Nørgaard Mikkelsen (External examiner)
9 Feb 2018
Activity: Examinations and supervision › External examination

Ozone effects on wheat grain quality - A summary AND CO2-Induced Changes in Wheat Grain Composition: Meta-Analysis and Response Functions
Teis Nørgaard Mikkelsen (External examiner)
11 Jan 2018
Activity: Examinations and supervision › External examination

EU Climate Cafe meeting in Roskilde: Climate-CAFÉ final meeting Cordoba
Teis Nørgaard Mikkelsen (Organizer)
12 Nov 2017 → 15 Nov 2017
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

External examiner at the Research Council of Norway
Teis Nørgaard Mikkelsen (External examiner)
8 Oct 2017 → 9 Nov 2017
Activity: Examinations and supervision › Internal examination

First Nordic Icos Symposium
Teis Nørgaard Mikkelsen (Participant)
29 Aug 2017 → 31 Aug 2017
Activity: Attending an event › Participating in or organising a conference

EGU General Assembly 2017
Teis Nørgaard Mikkelsen (Speaker)
27 Apr 2017
Activity: Talks and presentations › Conference presentations

Teis Nørgaard Mikkelsen (Participant)
4 Apr 2017 → 6 Apr 2017
Activity: Attending an event › Participating in or organising a conference

American Geophysical Union Fall meeting
Teis Nørgaard Mikkelsen (Participant)
12 Dec 2016 → 16 Dec 2016
Activity: Attending an event › Participating in or organising a conference
<table>
<thead>
<tr>
<th>Event</th>
<th>Role</th>
<th>Dates</th>
<th>Activity Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Supersites for Superior Forest Science: Launching Supersites for Superior Forest Science - Novelty, Needs and Networking</strong></td>
<td>Teis Nørgaard Mikkelsen (Other)</td>
<td>24 Oct 2016 → Oct 2017</td>
<td>Talks and presentations › Conference presentations</td>
</tr>
<tr>
<td><strong>Research Council of Norway - assessing grant applications.</strong></td>
<td>Teis Nørgaard Mikkelsen (External examiner)</td>
<td>2 Oct 2016 → 3 Nov 2016</td>
<td>Examinations and supervision › Internal examination</td>
</tr>
<tr>
<td><strong>Advances in FACE and manipulation technique</strong></td>
<td>Teis Nørgaard Mikkelsen (Speaker)</td>
<td>26 Sep 2016 → 29 Sep 2016</td>
<td>Talks and presentations › Conference presentations</td>
</tr>
<tr>
<td><strong>FACEing the future</strong></td>
<td>Teis Nørgaard Mikkelsen (Chairman)</td>
<td>26 Sep 2016 → 29 Sep 2016</td>
<td>Attending an event › Participating in or organising a conference</td>
</tr>
<tr>
<td><strong>EU Climate Cafe meeting in Roskilde</strong></td>
<td>Teis Nørgaard Mikkelsen (Organizer)</td>
<td>11 May 2016 → 13 May 2016</td>
<td>Attending an event › Participating in or organising a conference</td>
</tr>
<tr>
<td><strong>Climate-CAFE programme meeting</strong></td>
<td>Teis Nørgaard Mikkelsen (Participant)</td>
<td>4 Feb 2015 → 6 Feb 2015</td>
<td>Attending an event › Participating in or organising workshops, courses, seminars etc.</td>
</tr>
<tr>
<td><strong>Expert panel for Research Council of Norway (External organisation)</strong></td>
<td>Teis Nørgaard Mikkelsen (Participant)</td>
<td>23 Oct 2014 → 24 Oct 2014</td>
<td>Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar</td>
</tr>
<tr>
<td><strong>Climate change and ozone toxicity in plants</strong></td>
<td>Teis Nørgaard Mikkelsen (Lecturer)</td>
<td>1 Oct 2014 → 2 Oct 2014</td>
<td>Talks and presentations › Conference presentations</td>
</tr>
<tr>
<td><strong>4th ECLAIRE General Assembly and Annual Meeting</strong></td>
<td>Teis Nørgaard Mikkelsen (Participant)</td>
<td>28 Sep 2014 → 30 Sep 2014</td>
<td>Attending an event › Participating in or organising workshops, courses, seminars etc.</td>
</tr>
<tr>
<td><strong>A free air in situ ozone fumigation system designed for partial plant exposure</strong></td>
<td>Teis Nørgaard Mikkelsen (Lecturer)</td>
<td>18 May 2014 → 22 May 2014</td>
<td>Talks and presentations › Conference presentations</td>
</tr>
<tr>
<td><strong>Long term acclimation to elevated CO2 and drought increases the ozone toxicity in plants</strong></td>
<td>Teis Nørgaard Mikkelsen (Lecturer)</td>
<td>18 May 2014 → 22 May 2014</td>
<td>Talks and presentations › Conference presentations</td>
</tr>
</tbody>
</table>
46th American Air pollution workshop
Teis Nørgaard Mikkelsen (Speaker)
7 Apr 2014 → 10 Apr 2014
Activity: Talks and presentations › Conference presentations

BreedFACE
Teis Nørgaard Mikkelsen (Invited speaker)
19 Mar 2014
Activity: Talks and presentations › Conference presentations

Increase
Teis Nørgaard Mikkelsen (Speaker)
24 May 2013
Activity: Other

EU COST (External organisation)
Teis Nørgaard Mikkelsen (Member)
14 Feb 2013 → 30 Apr 2017
Activity: Membership › Membership of research networks or expert groups

EU COST (External organisation)
Teis Nørgaard Mikkelsen (Member)
1 Oct 2009 → 30 Sep 2013
Activity: Membership › Membership of research networks or expert groups