

Dr. Bjorn Jozef Maria Robroek

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Place and date of birth Heerlen, the Netherlands, September 18, 1978 **Nationality** The Netherlands **Gender** Male

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Date of CV 30 October 2019

EDUCATION

- 05.2003 – 08.2007 PhD degree, Nature Conservation and Plant Ecology group, Wageningen University & Research, The Netherlands. Awarded: 09 November 2007.
- 09.1997 – 04.2003 BSc, followed by MSc in Biology, Utrecht University, the Netherlands.

EMPLOYMENT

- 11.2019 – Assistant Professor (TT), Aquatic & Environmental Biology, Radboud University Nijmegen, The Netherlands
- 10.2019 – Guest Lecturer in Ecology, Biological Sciences, University of Southampton, UK
- 03.2017 – 10.2019 Lecturer in Ecology, Biological Sciences, University of Southampton, UK
- 11.2014 – 03.2017 Scientific Collaborator, École Polytechnique Fédérale de Lausanne, Switzerland
- 11.2011 – 10.2014 NWO-VENI research fellow, Biology, Utrecht University, The Netherlands
- 03.2009 – 10.2011 Postdoctoral researcher, Biology, Utrecht University, The Netherlands
- 08.2008 – 02.2009 Postdoctoral research assistant, Geography, University of Leeds, UK
- 09.2007 – 07.2008 Postdoctoral research fellow (80%) / junior lecturer (20%), Geosciences, Utrecht University, The Netherlands

LINGUISTIC SKILLS

Dutch (mother tongue), English (fluent), German (fluent), French (A2/B1 level)

AWARDS AND DISTICTIONS

- École Polytechnique Fédérale de Lausanne (EPFL), 'prime special' for outstanding services.
- 1st prize best scientific publication 2010 Scientific Journals. Centre for Ecosystems, Wageningen University. Breeuwer A, Heijmans MMPD, Robroek BJM & Berendse F. *Ecosystems* 13 (5): 712-726.
- 2nd prize best scientific publication 2009 Scientific Journals. Centre for Ecosystems, Wageningen University. Robroek BJM et al. 2009, *Global Change Biology* 15 (3): 680-691.

FUNDING

- Stiftelsen Anna och Gunnar Vidfelts för för biologisk forskning (2018-024-Vidfelts fond), C-Safe: Do plant–microbe linkages safeguard carbon sequestration in the Store Mosse peatland? SEK 250k (£ 21k), Co-PI
- Natural Environment Research Council (NERC), Urgency Grant (NE/S011943/1), RECOUP-Moor: Restoring Ecosystem CarbOn Uptake of Post-fire Moorland, £ 65k, PI
- CASE funding (industrial co-funding for SPRITFIRE NERC-DTP) from Länsstyrelsen i Jönköpings län, 2018-2021, SEK 33k (£ 2.65k), PI
- British Ecological Society, Small Research grant (SR17\1427), *Do plant communities affect microbial function in peatlands?* 2017, £ 5k, PI
- Institute for Life Sciences, University of Southampton studentship grant, *Plant-Microbe interactions in a changing climate*, 2017, £ 32.5k, PI
- French National Research Agency (ANR), *MIXOPEAT – Rethinking the peatland carbon cycle – identifying the role of mixotrophs in the biological carbon pump*, 2017, € 313k, Co-I
- Swiss National Science Foundation (SNSF: 315260_149807), *Allelochemical arms race in peatlands: the role of polyphenols in aboveground-belowground interactions*, 2013, CHF 204k, Co-I
- INTERACT Transnational Access program, *Effects of permafrost thawing on peatland root growth and activity related to plant biodiversity*, 2011, Travel costs and access to Abisko Research Station, 90 man-days, Co-applicant
- NWO-ALW (863.10.014), VENI Innovational Research Incentives Scheme, *Can diversity control peatland carbon sequestration under climate change? An experimental study*, 2010, € 250k, PI
- Dutch foundation for the conservation of Irish bogs, several projects: *Plant removal experiment set-up* (2018, € 0.8k); *The Global Sphagnum Production Project* (2013, € 1.5k); *Influence of frost on the carbon cycle in an alpine raised bog* (2012, € 1k); *PEATBOG: Floristic diversity in relation to biogeochemical factors and N cycling across gradients in N deposition and climate* (2010, € 1.5k); *The competition between Sphagnum species in Irish bogs* (2004, € 6k), € 10k, PI
- Department for Environment, Food and Rural Affairs (DEFRA), *Ecosystem services of peat*, 2008, £ 33.5k, Co-I

INTERNATIONAL RESEARCH AND TEACHING EXPERIENCE

- Fellow of the UK Higher Education Academy (certified)
- I have extensive research experience at academic institutions in three European countries (NL, CH, UK).
- I have performed fieldwork, and build collaborations in > 18 countries in the EU/EEA
- I published 48 research outputs in peer-reviewed scientific journals. Total number of citations: 863. *h*-index: 18. Data: Scopus / 02 May 2019.
- I have given oral presentations at > 9 international scientific conferences (1 keynote, and 3 invited talks), and several academic institutes.
- I have teaching experience in multiple academic institutions in three European countries.
- Member of the British Ecological Society Teaching and Learning Special Interest Group and
- Teaching scores > 4.6 (out of 5); praised by the students for support and feedback.
Modules I am involved in at the University of Southampton, including evaluations:
BIOL2041 New Forest Field course, BSc L2, Module lead; module rating 4/5, Robroek 4.9/5
BIOL3068 Fluxes, Cycles and Microbial Communities, BSc L3, 2 lectures; Robroek 5/5
BIOL1001 Experimental and Field Biology, BSc L2 Teaching staff; module rating 4.7/5 and 5/5; Robroek 4.6/5 and 5/5, 2017 and 2018 respectively
BIOL2008 Quantitative Methods in Biological and Environmental Science, BSc L2, 3 lectures, 3 practicals; Robroek 4.6 /5
BIOL3056 Global Change Biology; no evaluations yet
- Nominated for the 2018 University of Southampton Teaching Award

IMPORTANT ASSIGNMENTS

- Mid-term Thesis evaluation:
2020: Anna Sytiuk, National Centre for Scientific Research (CNRS), Toulouse, F
2020: Samule Hamard, Université Toulouse III – Paul Sabatier, Toulouse, F
- Opponent thesis defence:
2019: Adham Ashton-Butt, University of Southampton, UK (internal)
2017: Aino Korrensalo, University of Eastern Finland, Joensuu, Finland (external)
2012: Martin Jiroušek, Masaryk University, Brno, Czech Republic (external)
- Panel chair, Graduate School of the National Oceanography School, PhD studentship, Abbie Mabey (NERC-DTP, SPITFIRE student)
- Internal reviewer University of Southampton:
1st Progression review: Claire Lamb; Tania Garcia Becerra; Reem Aldawai; Asya Ahman Al-Rashed; Abbie Mabey
2nd Progression review: Tania Garcia Becerra, Asya Ahman Al-Rashed; Abbie Mabey

SUPERVISION

- PhD student supervision

Current students:

Main supervisor:

- Magdalena Steele: Plant-Microbe Interactions in a changing climate, 2018-2022
- Najam e Sahar: Eat in or eat out? The role of plant communities for microbial metabolic activity, 2018-2022
- Harry Shepherd: Using plant-soil feedbacks to enhance ecosystem restoration and biodiversity conservation, 2018-2022

Co-supervisor:

- Dan Turner: Linking above- and below-ground food webs and ecosystem functioning across a tropical forest modification gradient. 2018-2021
- Ilyzia Griselli Castaneda Davalos: Disentangling contributions of light and beneficial bacteria on the nutritional value of *Brassica* plants. 2017-2021

Completed students:

Daily supervisor: Justine Gay-des-Combes: Alternatives to slash-and-burn agriculture in Central Menabe, Madagascar' (thesis nr: 7839). Defended: 27 October 2017, École Polytechnique Fédérale de Lausanne, Switzerland.

- Panel chair for PhD student Abbigail Mabey, Graduate School of the National Oceanography Centre Southampton (GSNOCS).
- Undergraduate students (37): 16 MSc- 14 BSc-, and 7 internship students.

ASSIGNMENTS AS EDITOR, REFEREE

- 2017-2019 Associate and editor Functional Ecology: www.functionalecologists.com
- **Referee for international scientific journals:** Nat Commun, Ecol Lett, Proc Natl Acad Sci USA, Glob Chang Biol, New Phytol, J Ecol, J Appl Ecol, Func Ecol, Oikos, Oecologia, Ecosystems, Plant Soil, Environ Exp Bot, J Veg Sci, Appl Veg Sci, Bor Environ Res, Ecohydrology, Aquat Bot, Plant Ecol, Plant Species Biol, Botany, Clim Chang, Polar Biol, Folia Geobot Phytotaxon, Wetlands, Ecol Evol, Land, Wetl Ecol Manag, J Geophys Res: Biogeosci, Freshwater Sci, Mires and Peat, Front Ecol Evol, Eur J Soil Biol, Biogeochemistry, Soil Biol Biochem, Sci Tot Environ, Ann Bot, Écoscience, Geoderma.
- **Referee for grant proposals:** NCN, (Narodowe Centrum Nauki) Polish National Science Centre (2018), FWF – Austrian Science Fund (2018), DFG, German Research Foundation (2016 & 2018), CAČR, Czech Science Foundation (2018), NSERC, Natural Sciences and Engineering Research Council of Canada (2018), Leverhulme Trust (2017), British Ecological Society, Small research grants; Outreach grants; Ecologists in Africa grants (2016 & 2017); BARD, The US–Israel Agricultural Research & Development Fund (2016); ETAg, Estonian Research Council (2015); Postdoctoral funding programme P.R.I.M.E., German Academic Exchange Service (DAAD, 2015); National Research Network for Low Carbon Energy and the Environment (2014); Royal Geographical Society (with IBG) postgraduate research awards (2011-2014).

LEADERSHIP, MANAGEMENT & ENGAGEMENT

- Staff Engagement Champion for the School of Biological Sciences (SOBS)
- Member of the SOBS Research Operations Group
- Member of the SOBS Equality Diversity and Inclusion Committee
- Peatland Research Special Interest Group of the British Ecological Society, Secretary
- Plant-Soil-Ecosystems Special Interest Group of the British Ecological Society, Vice-Secretary
- Member of the NERC Strategic Programme Area group 'Peatland Resilience': Innovative Science for Transforming Management (PRISM)
- Expert panel Climate Change, International Peat Society
- Dutch foundation for the conservation of Irish bogs, board member

- Interview of Science Daily: <https://www.sciencedaily.com/releases/2017/10/171027085530.htm>
- Interview in the Telegraph: <https://www.telegraph.co.uk/science/2018/06/28/fire-chiefs-consider-setting-fire-saddleshworth-moor-stop-out/>
- Peatland Research Group, British Ecological Society; Ulster Museum: The secrets of Irelands peatlands: bog bodies, volcanoes and climate change. 11 September 2018

Popular science

- Caporn SJM, Payne R, **Robroek BJM** (2016) The vulnerability of peatbogs to climate change and air pollution. Shropshire Botanical Society Newsletter 33:7-9
- Dielissen E, **Robroek BJM**, Dorrepaal E (2015) Plant community controls on thawing permafrost soils. In: InterAct Stories of Arctic Science. Eds.: TV Callaghan, H Savela. p. 48-49
- **Robroek BJM** (2013) Understanding peatland ecology: peatland ecosystems and global climate change. International Innovation 10:24-26

ORAL PRESENTATIONS (* = INVITED)

- Annual Meeting of the British Ecological Society, Birmingham, UK, 2018
- International symposium on *Carbon Cycling in Boreal Peatlands and Climate Change II*, Hyytiälä Forestry Field Station, Finland, 2017 *
- 112° Congresso della Società Botanica Italiana Onlus, IV International Plant Science Conference (IPSC), *Parma University Campus, 20 - 23 September 2017* *
- Ecology Across Borders – Joint annual meeting being organised by the British Ecological Society (BES), NecoV and GfÖ, in association with the European Ecological Federation (EEF), Ghent, Belgium, 2017
- Annual Meeting of the British Ecological Society, Liverpool, UK, 2016
- EcoSummit 2016 Ecological Sustainability: Engineering Change, Montpellier, France, 2016 *
- Rhizosphere 4, Maastricht, The Netherlands, 2015 *
- British Ecological Society–SFE Joint Annual Meeting, Lille, France, 2014
- Society for Wetland Scientists European Chapter meeting, Padova, Italy, 2013
- Annual Meeting of the British Ecological Society, Sheffield, UK, 2011

- Invited seminars: 2020 Universität Greifswald, lecture series "Erde 3.0" (host: Jürgen Kreyling)
- 2019 University of Gothenburg, Dept. of Biol, and Environm. Sci. (host: Henrik Aronsson)
- 2019 University of Copenhagen, Dept. of Terrestrial Ecology (host: Rasmus Kjøller)

2018	Uppsala University, Dept. of Ecology and Genetics, Sweden (host: Gustaf Granath)
2018	James Hutton Institute, Aberdeen (host: Rob Brooker)
2017	University of York, Department of Environment (host: Richard Payne)
2014	University of Manchester, Faculty of Life Sciences (host: Richard Bardgett)
2010	University of Linköping, Dept. of Thematic studies (host: Bo Svensson)
2010	University of Hamburg, Dept. of Biology (host: Kai Jensen)

Participation in the organisation of scholarly symposia and conferences

- Panel chair Gordon Research Conference on the Biology of Winter! (<https://www.grc.org/biology-of-winter-conference/2020/>), 21-26 June 2020 Waterville Valley, NH, US
- Co-organizer Joint ECT-PSE Annual Science Conference, Long-term ecological experiments in plant-soil Ecosystems, Buxton, UK, 21-22 May 2019.
- Co-organizer Biological Sciences Seminar Series at the University of Southampton.
- Co-organizer thematic session (Winter Ecology) for the Joint Annual Meeting being organised by the British Ecological Society (BES), NecoV and GfÖ, in association with the European Ecological Federation (EEF), 11-14 December 2017, Ghent, Belgium.
- Co-convener symposium session C and N cycles. Rhizosphere 4, Maastricht, The Netherlands, 2015
- Co-convener symposium session Microbial ecology – from species richness to functional biodiversity, Netherlands Annual Ecology Meeting, 2013.
- Co-organizer 1st International symposium on Carbon in Peatlands, Wageningen, NL, 2007.

INTERNATIONAL NETWORK, RELATIONS & ACTIVITIES

- As a former member of the BiodivERsA-PEATBOG consortium, and lead investigator on one of the work-packages, I foster collaborations with Prof Dr Simon Caporn (Manchester Metropolitan University), Prof Nancy Dise (CEH Edinburgh), Dr Richard Payne (University of York), Prof Dr Bo Svensson and Dr Magali Martí (Linköping University), and Emeritus Prof Jos Verhoeven (Utrecht University). Furthermore, I established on-going contact with practitioners and landowners of >60 peatlands in 17 EU/EEA countries.
- Since 2010, I am the main investigator on a plant removal experiment in the Store Mosse National Park. In that capacity, I close collaborate with the staff of the Naturum and the County Administrative Board (Länsstyrelsen i Jönköpings län).
- I collaborate in the ANR-funded *MIXOPEAT* consortium, led by Vincent Jassej at the University of Toulouse III – Paul Sabatier, investigating the role of mixotrophic testate amoebae on carbon cycling in European peatlands. The *MIXOPEAT* team is composed of a team of long-term collaborators that apart from Dr Jassej and myself consists of researchers from the Adam Mickiewicz University, Poznań (Prof Marisz Lamentowicz), Umeå University (Prof Ellen Dorrepaal), EPLFL (Dr Constant Signarbiex), the Spanish National Research Council (Dr Enrique Lara), SLU Umeå (Dr Paul Kardol) and the University of Zurich (Dr Owen Petchey).
- I work on a project that investigates the role of microbes as drivers for soil formation on permafrost soils on Victoria Land (continental Antarctica). The research is led by the Università degli Studi dell'Insubria, Italy (Prof Nicoletta Cannone and Prof Mauro Gugliemin) and the University of Ferrara (Prof. Luca Bragazza).
- I am involved in research that examines the 'home-advantage' effect on litter decomposition in the Swiss Alps. This research is the results of a collaboration with Dr Sonja Wipf (Swiss Institute for Snow and Avalanche Research) and Dr Ciska Veen (Netherlands Institute for Ecological Research).
- I am co-leading (with Prof Ellen Dorrepaal, Umeå University) a group of collaborators (Prof Luca Bragazza, University of Ferrara; Dr Vincent Jassej, University of Toulouse III – Paul Sabatier; Dr Constant Signarbiex, Ecole Polytechnique Fédérale de Lausanne; Dr Robert Mills, Lancaster University) on a project, Snowman, where we have studied the effects of winter climate change on plant and microbe metabolic activity, using ecophysiological and isotopic tracer techniques.
- My work on winter ecology has resulted in collaborative research effects with researchers from Tallinn University (Martin Küttim and Prof Mati Ilomets) and the Oulu University (Dr Anna Laine)
- I collaborate in a worldwide consortium, led by Dr Stacy Trevanthan-Tackett (Deakin University, Australia) that assesses decomposition processes in a diversity of wetlands (<http://www.bluecarbonlab.org/teacomposition-h2o/>).
- I collaborate in a global network of peatland researchers that addresses the role of environmental variables in peat moss production. The Global Sphagnum Production project is led by Dr Gustaf Granath and Prof Håkan Rydin (Uppsala University) and comprises over 45 researchers from 41 institutes across the globe.
- I recently took part in an application to the a ERA-net (Belmont Forum/BiodivERsA) proposal to establish a collaborative research initiative with the University of Toulouse (Dr Vincent Jassej), Umeå University (Prof Dr Ellen Dorrepaal), Netherlands Institute for Ecological Research (Dr Ciska Veen and Prof Paul Bodelier), Oulu University (Dr Anna Laine) Université Laval, Canada (Prof Dr Line Rochefort), University of Waterloo, Canada (Dr Maria Strack),

McGill University, Canada (Prof Dr Nigel Roulet) and the University of New Hampshire, USA (Prof Dr Steve Froelking). This funding fell through, but we are currently looking for alternative outlets for this collaboration.

LIST OF PUBLICATIONS

ARTICLES IN INTERNATIONAL SCIENTIFIC JOURNALS

1. Baird AJ, Evans CD, Mills R, Morris PJ, Page SE, Peacock M, Reed M, **Robroek BJM**, Stoneman R, Swindles GT, Thom T, Waddington M, Young DM. Validity of managing peatlands with fire. *Nature Geoscience* <https://doi.org/10.1038/s41561-019-0477-5>
2. Hamard S, **Robroek BJM** et al. Effects of *Sphagnum* leachates on competitive *Sphagnum* microbiome depends on species and time. *Frontiers in Microbiology* 10:2042
3. Küttim M, Laine AM, Küttim L, Ilomets M, **Robroek BJM**. Winter climate change increases physiological stress in calcareous fen bryophytes. *Science of the Total Environment* 695:133867.
4. Bragazza L, **Robroek BJM** et al. Soil microbial community structure and enzymatic activity along a plant cover gradient in Victoria Land (Continental Antarctica). *Geoderma* 353:144-151.
5. Granath G, [...], **Robroek BJM** et al. (2018) Environmental and taxonomic controls of carbon and oxygen stable isotope composition in *Sphagnum* across broad climatic and geographic ranges. *Biogeosciences* 15:5189-5202
6. Puissant J, Jasse VEJ, Mills RTE, **Robroek BJM** et al. (2018) Seasonality alters drivers of soil enzyme activity in subalpine grassland soil undergoing climate change. *Soil Biology and Biochemistry* 124:266-274
7. Jasse VEJ, [...], **Robroek BJM** et al. (2018) Tipping point effect in plant-fungal interactions under severe drought causes abrupt rise in peatland ecosystem respiration. *Global Change Biology* 24:972-986.
8. Gavazov K, [...], **Robroek BJM**, Bragazza L. (2018) Vascular plant-mediated controls on atmospheric carbon assimilation and peat carbon decomposition under climate change. *Global Change Biology* 24:3911-3921
9. Samson M, [...], **Robroek BJM** et al. (2018) Impact of experimental temperature increase and water level manipulation on carbon dioxide release in a poor fen in northern Poland. *Wetlands* 38:551-563
10. **Robroek BJM**, Jasse VEJ, et al. (2017) Taxonomic and functional turnover are decoupled in European peat bogs. *Nature Communications* 8:1161
11. **Robroek BJM** et al. (2017) Diverse fen plant communities enhance carbon-related multifunctionality, but do not mitigate negative effects of drought. *Royal Society Open Science* 4:170449
12. Shazad SM, Arif MS, [...], **Robroek BJM**. (2017) Interaction of compost additives with phosphate solubilising rhizobacteria improved maize production and soil biochemical properties under dryland agriculture. *Soil and Tillage Research* 174:70-80
13. Küttim M, Hofsommer ML, **Robroek BJM** et al. (2017) Freeze-thaw cycles simultaneously decrease peatland photosynthetic carbon uptake and ecosystem respiration. *Boreal Environment Research* 22:267-276
14. Gay-des-Combes J, Sanz Carrillo C, **Robroek BJM** et al. (2017) Tropical soils degraded by slash-and-burn cultivation can be recultivated when amended with ashes and compost. *Ecology and Evolution* 14:5578-5388
15. Mulot M, [...], **Robroek BJM** et al. (2017) Genetic determinism vs. phenotypic plasticity in protist morphology. *Journal of Eukaryotic Microbiology* 64:729-739
16. Gay-des-Combes J, **Robroek BJM** et al. (2017) Slash-and-burn agriculture and tropical cyclone activity in Madagascar: implication for soil fertility dynamics and corn performance. *Agriculture, Ecosystems and Environment* 239:207-218
17. Puissant J, Mills RTE, **Robroek BJM** et al. (2017) Climate change effects on the stability and chemistry of soil organic carbon pools in a subalpine grassland. *Biogeochemistry* 132:123-139
18. **Robroek BJM** et al. (2016) Peatland vascular plant functional types affect dissolved organic matter chemistry. *Plant and Soil* 407:135-143
19. Jasse VEJ, [...], **Robroek BJM**. (2016) Loss of testate amoeba functional diversity with increasing frost intensity across a continental gradient reduces microbial activity in peatlands. *European Journal of Protistology* 55:190-202
20. Bragazza L, Buttler A, **Robroek BJM** et al. (2016) Persistent high temperature and low precipitation reduce peat carbon accumulation. *Global Change Biology* 22:4114-4123
21. Jasse VEJ, [...], **Robroek BJM**. (2015) An unexpected role for mixotrophs in the response of peatland carbon cycling to climate warming. *Scientific Reports* 5:16931
22. **Robroek BJM** et al. (2015) Peatland vascular plant functional types affect methane dynamics by altering microbial community structure. *Journal of Ecology* 103:925-934
23. Buttler A, **Robroek BJM** et al. (2015) Experimental warming interacts with soil moisture to discriminate plant responses in an ombrotrophic peatland. *Journal of Vegetation Science* 26:964-974
24. Mariotte P, **Robroek BJM**, Jasse VEJ, Buttler A. (2015) Subordinate plant species dampen the effect of drought on soil ecosystem processes. *Functional Ecology* 29:1578-1586
25. Martí M, Juottonen H, **Robroek BJM** et al. (2015) Nitrogen and methanogen community composition within and among three *Sphagnum* dominated peatlands in Scandinavia. *Soil Biology and Biochemistry* 81:204-211

26. Puissant J, Cecillon L, Mills RTE, **Robroek BJM** et al. (2015) Seasonal influence of climate manipulation on microbial community structure and function in mountain soils. *Soil Biology and Biochemistry* 80:296-305
27. Nijp J, [...], **Robroek BJM**. (2014) Can frequent precipitation moderate the impact of drought on peatmoss carbon uptake in Northern peatlands? *New Phytologist* 203:70-80
28. **Robroek BJM** et al. (2014) Microclimatological consequences for plant and microbial composition in Sphagnum-dominated peatlands. *Boreal Environment Research* 19:195-208
29. Kuiper JJ, [...], **Robroek BJM**. (2014) Plant functional types define magnitude of drought response in peatland CO₂ exchange. *Ecology* 95:123-131
30. Pel MJC, Wintermans PCA, Cabral A, **Robroek BJM** et al. (2014) Functional analysis of *Hyaloperonospora arabidopsidis* RXLR effectors. *PlosOne* 9, e110624
31. Jassey VEJ, Lamentowicz L, **Robroek BJM** et al. (2014) Plant functional diversity drives niche-size structure of microbial biota along a poor to extremely rich fen gradient. *Journal of Ecology* 102:1150-1162
32. **Robroek BJM** et al. (2013) Snow cover manipulation effects on microbial community structure and soil chemistry in a mountain bog. *Plant and Soil* 369:152-164
33. van Dijk J, **Robroek BJM**, Kardel I, Wassen M. (2012) Combined effects of nitrogen enrichment, sulphur pollution and climate change on fen meadow vegetation N:P stoichiometry and biomass. *Biogeochemistry* 111:139-150
34. Crushell PH, Smolders AJP, Schouten MGC, **Robroek BJM**, van Wirdum G, Roelofs JGM. (2011) Restoration of a terrestrialized soak lake of an Irish raised bog: results of field experiments. *Restoration Ecology* 19:261-272
35. **Robroek BJM**, Smart RP and Holden J. (2010) Sensitivity of blanket peat vegetation and hydrochemistry to local disturbances. *Science of the Total Environment* 408:5028-5034 (2010)
36. Breeuwer A, Heijmans MMPD, **Robroek BJM** et al. (2010) Field simulation of global change: transplanting Northern bog mesocosms southward. *Ecosystems* 13:712-726
37. Fujita Y, **Robroek BJM** et al. (2010) Increased N affects P uptake of eight grassland species: the role of root surface phosphatase activity. *Oikos* 119:1665-1673
38. Breeuwer A, **Robroek BJM** et al. (2009) Decreased summer water table depth affects peatland vegetation. *Basic and Applied Ecology* 10:330-339
39. **Robroek BJM** et al. (2009) How nitrogen and sulphur addition, and a single drought event affect root phosphatase activity in *Phalaris arundinacea*. *Science of the Total Environment* 407:2342-2348
40. **Robroek BJM** et al. (2009) Interactive effects of water table and precipitation on net CO₂ assimilation of three co-occurring *Sphagnum* mosses differing in distribution above the water table. *Global Change Biology* 15:680-691
41. **Robroek BJM** et al. (2009) *Sphagnum* re-introduction in degraded peatlands: the effects of aggregation, species identity and water table. *Basic and Applied Ecology* 10:697-706
42. **Robroek BJM**, Waucomont JGM, Schouten MGC. (2009) The disappearance of *S. imbricatum* from European raised bogs: a comment on McClymont et al. *The Holocene* 19:1093-1094
43. Breeuwer A, Heijmans MMPD, Gleichman M, **Robroek BJM** et al. (2009) Response of *Sphagnum* species mixtures to increased temperature and nitrogen availability. *Plant Ecology* 204:97-111
44. Limpens J, **Robroek BJM**, Heijmans MMPD et al. (2008) Mixing ratio and species affect the use of substrate-derived CO₂ by *Sphagnum*. *Journal of Vegetation Science* 19:841-848
45. Breeuwer A, Heijmans MMPD, **Robroek BJM** et al. (2008) The effect of increased temperature and nitrogen deposition on decomposition in bogs. *Oikos* 117:1258-1268
46. Breeuwer A, Heijmans MMPD, **Robroek BJM** et al. (2008) The effect of temperature on growth and competition between *Sphagnum* mosses. *Oecologia* 156:155-167
47. **Robroek BJM** et al. (2007) Effects of water level and temperature on performance of four *Sphagnum* mosses. *Plant Ecology* 190:97-107
48. **Robroek BJM** et al. (2007) Interspecific competition between *Sphagnum* mosses at different water tables. *Functional Ecology* 21:805-812
49. **Robroek BJM** et al. (2007) Precipitation determines the persistence of hollow *Sphagnum* species on hummocks. *Wetlands* 27:979-986

OTHER SCIENTIFIC OUTPUT / REPORTS

50. van Dijk J, **Robroek BJM**, Kardel I, Wassen M. (2013) Mogelijke effecten van gecombineerde atmosferische depositie en klimaatveranderingen op laagveenmoerassen. *Landschap* 29:1-11
51. Chapman PJ, **Robroek BJM**, Holden J, Ashley D, Irvine B. (2009) Spatial variability in stream biogeochemistry related to catchment characteristics in the Nidderdale Area of Outstanding Beauty, UK. *Yorkshire Water report*
52. **Robroek BJM**, Eppinga MB, Limpens J, Wassen MJ, Schouten MGC. (2009) Hoogveenherstel in Nederland: méér dan een droom. Restoration of raised bogs in the Netherlands: more than just a dream (in Dutch). *Landschap* 25:17-2
53. **Robroek BJM**, Schaepman-Strub G, Limpens J, Berendse F, Breeuwer A (Eds.) (2007). *Proceedings of the First International Symposium on Carbon in Peatlands*. Wageningen, the Netherlands

54. **Robroek BJM**, de Jong H & Sommeijer MJ. (2003) The behaviour of the kleptoparasite, *Pseudohypocera kerteszi* (Diptera, Phoridae), in hives of stingless bees (Hymenoptera, Apidae) in Central America. *Proc. of the section Experimental and Applied Entomology - Netherlands Entomological Soc.* 14: 65-70
55. **Robroek BJM**, de Jong H, Arce H & Sommeijer MJ. (2003) The development of *Pseudohypocera kerteszi* (Diptera, Phoridae), a kleptoparasite in nests of stingless bees (Hymenoptera, Apidae) in Central America. *Proc. of the section Experimental and Applied Entomology - Netherlands Entomological Soc.* 14:71-74