



Publications

March 2019.

Scientific Dissemination

Papers, peer reviewed (artikler, peer reviewed)

- 1) Andersen PS, Andersen E, Graversgaard M, Christensen AA; Vejre H and Dalgaard T (2019) *Using landscape scenarios to improve local nitrogen management and planning*. Journal of Environmental Management, Volume 232, 15 February 2019, Pages 523-530. <https://doi.org/10.1016/j.jenvman.2018.11.023>.
- 2) Christensen AA, Andersen PS, Piil K, Vejre H, Andersen E and Graversgaard M (2019) *Pursuing implementation solutions for targeted nitrogen management in agriculture - A novel approach to synthesize knowledge and facilitate sustainable decision making based on collaborative landscape modeling*. Paper for Journal of Environmental Management (accepted).
- 3) Hansen LB, Termansen M and Hasler B (2019) *The potential for nitrogen abatement trading in agriculture: A hypothetical market experiment*. Journal of Agricultural Economics. <https://doi.org/10.1111/1477-9552.12319>.
- 4) Hansen B, Thorling L, Kim H, Blicher-Mathiesen G (2019) *Long-term nitrate response in shallow groundwater to agricultural N regulations in Denmark*. Paper for Journal of Environmental Management (accepted).
- 5) Hasler B, Hansen LB, Andersen HE, Termansen M (2019) *Cost-effective abatement of non-point source nitrogen emissions - the effects of uncertainty in retention*. Paper for Journal of Environmental Management (accepted).
- 6) Hellsten S, Dalgaard T, Rankinen K, Tørseth K, Kulmala A, Turtola E, Moldan F, Pira K, Piil K, Bakken L, Bechmann M and Olofsson S (2019) *Abating N in Nordic agriculture - Policy, measures and way forward*. Journal of Environmental Management 236 (2019) 674–686. <https://doi.org/10.1016/j.jenvman.2018.11.143>.
- 7) Jensen AK, Uggeldahl KC, Jacobsen BH, Jensen JD and Hasler B (2019) *Including aesthetic and recreational values in cost-effectiveness analyses of Nitrogen reduction measures*. Paper for Journal of Environmental Management (accepted).
- 8) Odgaard MV, Dalgaard T, Knudsen MT and Hermansen JE (2019) *Targeted grassland production - a Danish case study on multiple benefits from converting cereal to grasslands for green biorefinery*. Journal of Cleaner Production. Volume 223, 20 June 2019, Pages 917-927. <https://doi.org/10.1016/j.jclepro.2019.03.072>.
- 9) Odgaard MV, Olesen JE, Børgesen CD, Svenning JC and Dalgaard T (2019) *Targeted set-aside - a Danish case study on multiple benefits from reduction of nitrogen loads to aquatic environments*. Paper for Journal of Environmental Management (under revision).
- 10) Vogdrup-Schmidt M, Olsen SB, Dubgaard A, Kristensen IT, Jørgensen LB, Normander B, Ege C and Dalgaard T (2019) *Using spatial multi-criteria decision analysis to develop new and sustainable directions for the future use of agricultural land in Denmark*. Ecological Indicators 3 (2019) 34-42. <https://doi.org/10.1016/j.ecolind.2019.03.056>.
- 11) Case S.D.C., Jensen L. S. (2018) *Nitrogen and Phosphorus release from organic wastes and suitability as bio-based fertilizers in a circular economy*. Environmental Technology 40:6, 701-715, <http://dx.doi.org/10.1080/09593330.2017.1404136>
- 12) Doltra J, Villar A, Moros R, Salcedo G, Hutchings NJ and Kristensen IS (2018) *Forage management to improve on-farm feed production, nitrogen fluxes and greenhouse gas emissions from dairy systems in a wet temperate region*. Agricultural Systems 160, 70-78.
- 13) Graversgaard M, Hedelin B, Smith, L., Gertz, F., Højberg, A.L., Langford, J., Martinez, G., Mostert, E., Ptak, E., Peterson, H., Stelljes, N., Van den Brink, C. and Refsgaard JC (2018) *Opportunities and barriers for water co-governance – a critical analysis of seven cases of diffuse water pollution from agriculture in Europe, Australia and North America*. Sustainability, 10(5), 1-39. <https://doi.org/10.3390/su10051634>



- 14) Hamidov A , Helming K, Schönhart M, Bellocchi G, Bojar W, Dalgaard T, Ghaley BB, Hoffmann C, Holman I, Holzkaemper A, Krzeminska D, Kværnø SH, Lehtonen H, Øygarden L, Reidsma P, Roggero PP, Santos C, Skarbøvik E, Teodor R, Ventrella D (2018) *Impacts of agricultural climate change adaption options on soil functions: A review of European case studies*. Land Degrad Dev. 2018;1–12. <https://doi.org/10.1002/ldr.3006>. Review paper.
- 15) Hashemi F, Olesen JE, Børgesen CD, Tornbjerg H, Thodsen H and Dalgaard T (2018) *Potential benefits of farm scale measures versus landscape measures for reducing nitrate loads in a Danish catchment*. Science of the Total Environment, 2018.637-638, 318-335. <https://doi.org/10.1016/j.scitotenv.2018.04.390>.
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- 17) Hashemi F, Olesen JE, Jabloun M and Hansen AL (2018). *Reducing uncertainty of estimated nitrogen load reductions to aquatic systems through spatially targeting agricultural mitigation measures using groundwater nitrogen reduction*. Journal of Environmental Management 218: 451-464. doi: 10.1016/j.jenvman.2018.04.078.
- 18) Holst G, Thygesen M, Pedersen CB, R.G. Peel, J. Brandt, J.H. Christensen, J. Bønløkke, O. Hertel, and T. Sigsgaard (2018) *Ammonia, ammonium and the risk of asthma - A nationwide case-control study in Danish preschool children*. Environmental Epidemiology: September 2018 - Volume 2 - Issue 3 -p e019.
- 19) Kros H, Hutchings NJ, Kristensen IT, Kristensen IS, Børgesen CD, Voogd JC, Dalgaard T and de Vries W (2018) *A comparison of disaggregated nitrogen budgets for Danish agriculture using Europe-wide and national approaches*. Science of The Total Environment Volume 643, 1 December 2018, Pages 890-901. <https://doi.org/10.1016/j.scitotenv.2018.06.267>.
- 20) Nainggolan D, Hasler, B, Andersen, HE, Gyldenkærne, S and Termansen, M (2018) *Water quality management and climate change mitigation: cost-effectiveness of joint implementation in the Baltic Sea region*. Ecological Economics, vol 144, pp. 12-26. DOI: 10.1016/j.ecolecon.2017.07.026.
- 21) Odgaard MV, Dalgaard T, Bøcher PK and Svenning JC (2018) *Site-specific modulators control how geophysical and socio-technical drivers shape land use and land cover*. Geo: Geography and Environment 2018;e00060. <https://doi.org/10.1002/geo2.60>. p. 1-15. ISSN 2054-4049
- 22) Odgaard MV and Dalgaard T (2018) *Targeting Land Use Change to Enhance Multiple Environmental Benefits - A Mini Review*. Int J Environ Sci Nat Res, Vol. 15 Issue 1 - October 2018. DOI: 10.19080/IJESNR.2018.15.555905. 4 p.
- 23) Schullehner J, Hansen B, Thygesen M, Pedersen CB, Sigsgaard T (2018) *Nitrate in drinking water and colorectal cancer risk: A nationwide population-based cohort study*. International Journal of Cancer 143: 73–9. <https://doi.org/10.1002/ijc.31306>.
- 24) Zemo KH and Termansen M (2018) *Farmers' willingness to participate in collective biogas investment: A discrete choice experiment study*. Resource and Energy Economics, 52: 87-101.
- 25) Andersen SS and Graversgaard M (2017) *The Meat Dogma Blogging Project: exploring nitrogen mitigation in Denmark*. The Journal of Transdisciplinary Environmental studies. The Journal of Transdisciplinary Environmental Studies, Vol. 16, Nr. 1, 16, 01.08.20x17, s. 1-17.
- 26) Case SDC, Oelofse M, Hou Y, Oenema O, Jensen LS (2017) *Farmer perceptions and use of organic waste products as fertilisers – a survey study of potential benefits and barriers*. Agricultural Systems 151, 84–95. <http://dx.doi.org/10.1016/j.agsy.2016.11.012>.
- 27) Cong R-G, Stefaniak I, Madsen B, Dalgaard T, Jensen JD, Nainggolan D, Termansen M (2017) *Where to implement local biotech innovations? A framework for multi-scale socio-economic and environmental impact assessment of Green Bio-Refineries*. Land Use Policy Volume 68, p. 141-151. <https://doi.org/10.1016/j.landusepol.2017.07.036>.
- 28) De Vries W, Du E, Butterbach Bahl C, Schulte Uebbing L and Dentener F (2017) *Global-scale impact of human nitrogen fixation on greenhouse gas emissions*. Oxford Research Encyclopedia of Environmental Science.



- 29) Gachango FG and Jacobsen BH (2017) *How to introduce new technologies to reduce nutrient losses: a case of Danish agricultural constructed wetlands*. Water Policy, 15. DOI: 10.2166/wp.2017.015
- 30) Gómez-Muñoz B, Larsen J, Bekiaris G, Scheutz C, Bruun S, Nielsen S, Jensen LS (2017) *Nitrogen mineralisation and greenhouse gas emission from the soil application of sludge from reed bed mineralisation systems*. Journal of Environmental Management, 203: 59-67.
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- 32) Graversgaard M, Jacobsen B, Kjeldsen C and Dalgaard T (2017) *Stakeholder Engagement and Knowledge Co-Creation in Water Planning: Can Public Participation Increase Cost-Effectiveness?* Water 2017, 9, 191; doi:10.3390/w9030191. <http://www.mdpi.com/2073-4441/9/3/191/pdf>.
- 33) Hansen B, Thorling L, Schullehner J, Termansen M and Dalgaard T (2017) *Groundwater nitrate response to sustainable nitrogen management*. Nature Scientific Reports. 7: 8566, www.nature.com/scientificreports. <http://rdcu.be/u4cA>. <https://doi.org/10.1038/s41598-017-07147-2>.
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- 38) Odgaard MV, Turner KG, Bøcher PK, Svenning JC and Dalgaard T (2017) *A multi-criteria, ecosystem-service value method used to assess catchment suitability for potential wetland reconstruction in Denmark*. Ecological Indicators Volume 77, June 2017, Pages 151–165. <http://doi.org/10.1016/j.ecolind.2016.12.001>.
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- 40) Schullehner J, Jensen NL, Thygesen M, Hansen B and Sigsgaard T (2017) *Drinking water nitrate estimation at household-level in Danish population-based long-term epidemiologic studies*. Journal of Geochemical Exploration 14:276 (9p).
- 41) Snow VO, Cichota R, McAuliffe RJ, Hutchings NJ, Vejlin J (2017) *Increasing the spatial scale of process-based agricultural systems models by representing heterogeneity: The case of urine patches in grazed pastures*. Environmental Modelling & Software 90, 89-106.
- 42) Thorsøe MH, Graversgaard M and Noe E (2017) *The challenge of legitimizing spatially differentiated regulation: Experiences from the implementation of the Danish Buffer zone act*. Land Use Policy 62 (2017) 202–212.
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- 54) Salo TJ, Palosuo T, Kersebaum KC, Nendel C, Angulo C, Ewert F, Bindi M, Calanca P, Klein T, Moriondo M, Ferrise R, Olesen JE, Patil RH, Ruget F, Takac J, Hlavinka P, Trnka M and Rötter RP (2016) *Comparing the performance of eleven crop simulation models in predicting yield response to nitrogen fertilisation*. *Journal of Agricultural Science* 154, 1218-1240.
- 55) Shibata H, Galloway JN, Leach AM, Cattaneo LR, Cattell LN, Erisman JW, Gu B, Liang X, Hayashi K, Ma L, Dalgaard T, Graversgaard M, Chen D, Nansai K, Shindo J, Matsubae K, Oita A, Su M-S, Mishima S-I, Bleeker A (2016) *Nitrogen footprints: Regional realities and options to reduce nitrogen loss to the environment*. *Ambio* 2017, 46:129–142 DOI 10.1007/s13280-016-0815-4.
- 56) Turner KG, Anderson S, Gonzales-Chang M, Costanza R, Courville S, Dalgaard T, Dominati E, Kubiszewski I, Ogilvy S, Porfirio L, Ratna N, Sandhu H, Sutton PC, Svenning JC, Turner MG, Varennes YD, Voinov A, Wratten S (2016) *Towards an Integrated Assessment of Land Degradation and Restoration: Methods, Data, and Models*. *Ecological Modelling* Vol 319, 190-207. <http://dx.doi.org/10.1016/j.ecolmodel.2015.07.017>
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- 66) Asai, M.; Langer, V.; Frederiksen, P. and Jacobsen, B.H. (2014) *Farmers perception of successful collaborative arrangements for manure exchange: A study in Denmark.* Agricultural Systems 06/2014; 128:55-65.
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- 75) Kros J, Gies TJA, Voogd JC, Smidt R and de Vries W (2013) *Efficiency of agricultural measures to reduce nitrogen deposition on Natura 2000 sites.* Environmental Science & Policy, 32: 68-79.
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Paper 1, 2, 3, 7, 11, 13, 15, 16, 17, 18, 23, 25, 30, 31, 32, 33, 38, 39, 45, 47, 49, 51, 52, 56, 64, 67, 70 og 71 er 100% financieret af DNMARK. Nøgleartiklerne 18, 33, 67, 68 og 70 m.fl. er med Open Access (OA).



De øvrige er skønsmæssigt i gennemsnit >10% DNMARK.

Other papers (artikler, ikke peer reviewed)

- 77) Dalgaard T (2019) *Agronom i FNs tjeneste – for Danmark*. JA Aktuelt no. 1, p. 10-11. ISSN 2596-6103. <https://ipaper.ipapercms.dk/fsek/ja-aktuelt/2019/ja012019/?page=10>.
- 78) Graversgaard M, Dalgaard T, Olesen JE, Jørgensen S, Søgaard Nielsen B, Andersen B and Moth L (2019) *International sommerskole - integrated nutrient management*. JA Aktuelt no. 2. Marts. ISSN 2596-6103.
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- 108) Dalgaard T (2013) *Bæredygtig anvendelse af kvælstof kan give milliardindtægt*. Agrologisk nr. 2, Årgang 31. Februar 2013. s. 12-13.
- 109) Jacobsen BH og Kristensen ES (2013) *Normreduktion betyder højere omkostninger*. Agrologisk nr. 12, pp. 32-35.
- 110) Olesen JE (2013) *Hvordan kan udvaskningen og belastningen af vandmiljøet yderligere reduceres?* Agrologisk, 09.08.2013, s. 6-8.
- 111) Dalgaard T (2012) *N-restriksjoner i dansk landbrug – effekter på nitrogenbalanser og produktivitet*. Bioforsk-konferansen, Clarion Hotel Oslo Airport, Gardermoen, 6. - 7. februar 2012. Bioforsk Fokus 5(2) p. 467-470.
- 112) Hansen B, Thorling L, Sørensen B, Dalgaard T and Erlandsen M (2012) *Nitrattrends I dansk grundvand*. Vand og Jord, 19. årgang 2012, no. 1 p. 37-40.

Artiklerne frem til 2015 er stort set 100% finansieret af DNMARK. De nyere artikler er skønsmæssigt i gennemsnit 25% finansieret af DNMARK.

Doctor and PhD thesis (doktordisputatser og PhD afhandlinger)

- 113) Graversgaard (2018) *Stakeholder participation for effective governance: Bridging the gap between topdown water resource management and bottom-up local implementation*. Aarhus University. 239 p. ISBN 978-87-93643-61-1.
- 114) Hashemi F (2018) *Methods for Assessing Spatially Differentiated Nitrogen Mitigation in Agriculture*. Aarhus University. ISBN 978-87-93643-51-2.
- 115) Kejser A (2017) *The Economic Value of Changes in Water Quality - Exploring Heterogeneity in Public Preferences in Stated Preference Studies*. PhD Thesis. University of Copenhagen, IFRO. 209 p.
- 116) Andersen SS (2016) *Philosophical-anthropological Perspectives on the Culture of Food in the City of Horsens, with Special Regard to Diminished Consumption of Meat Products*. PhD Thesis. Aarhus University, Arts.
- 117) Schullehner J (2016) *Nitrate in Drinking Water and Public Health Effects The Example of Colorectal Cancer*. PhD Thesis. Aarhus University, Health.
- 118) Turner KC (2015) *Mapping and Modelling Ecosystem Services to Explore Characteristics of Socio-Ecological Systems*. PhD Thesis. Aarhus University, Department of Agroecology, Science and Technology. 152 p. ISBN 978-87-93176-94-2.

PhD arbejderne er stort set 100% finansieret fra DNMARK, og de tilhørende PhD skoler, på nær Turner (2015) der er 92% DNMARK, og indgår som medfinansiering.



Full Scientific books, proceedings or anthologies (videnskabelige bøger/ antologier)

- 119) Dalgaard T, Olesen JE and Schjørring J (2017, eds.) *Innovative Solutions for Sustainable Management of Nitrogen*. Conference Proceedings. Aarhus University and the www.dnmark.org Research Alliance. Available via http://sustainableconference.dnmark.org/wp-content/uploads/2017/06/JYC_Final_Book-of-abstracts160617.pdf at <http://sustainableconference.dnmark.org/>. ISBN 978-87-93398-82-5. 142 p.

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Scientific reports (videnskabelige rapporter)

- 120) Sutton MA, Dalgaard T, Cordovil CMdS and Howard C (2019) *Guia de Boas Práticas Agrícolas para a Redução das Emissões de Amoníaco*. Base o documenta E/EB.AIE/129. Comissão Económica das Nações Unidas para a Europa – UNECE. Covenão sobre a Poluição Atmosférica Transfronteiriça a Longa Distância – LRTAP. ISBN 978-972-8669-78-2. 28 p.
- 121) Børgesen CD, Dalgaard T, Pedersen BF, Kristensen T, Jacobsen BH, Jensen JD, Gylling M and Jørgensen U (2018) *Kan reduktionsmålsætninger for nitratudvaskning til Limfjorden opfyldes ved øget dyrkning af biomasse*. DCA rapport, nr. 131, November 2018. DCA - Nationalt Center for Fødevarer og Jordbrug, Foulum. ISBN 978-87-93643-95-6. 79 p. http://web.agrsci.dk/djfpublikation/djfpdf/DCArapport131_2.pdf.
- 122) Dalgaard T, Cordovil CMA and Sutton MA (2018) *Report of the Task Force on Reactive Nitrogen*. Economic Commission for Europe. Executive Body for the Convention on Long-range Transboundary Air Pollution. Working Group on Strategies and Review. Fifty-sixths session, Geneva 22-25 May 2018. United Nations Economic and Social Council. 13 March 2018. ECE/EB.AIR/WG.5/2018/2. 7 p.
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- 125) Jacobsen BH (2017) *Analyse af omkostningseffektiviteten ved anvendelse af miljøteknologi til recirkulation af fosfor fra husdyrgødning på baggrund af erfaringer fra Nederlandene*. IFRO Udredning, Nr. 2017/29 https://curis.ku.dk/ws/files/189395553/IFROI_Udredning_2017_29.pdf.
- 126) Termansen M, Konrad, M; Levin, G; Hasler, B; Thorsen, BJ; Aslam, U; Andersen, HE; Bojesen, M; Lundhede, TH; Panduro, TE; Strange, N (2017) *Udvikling og afprøvning af metode til modellering af økosystemtjenester og biodiversitetsindikatorer med henblik på kortlægning af synergier og konflikter ved arealtiltag*. Scientific report no. 226 from DCE - National Center for Environment and Energy.
- 127) Thorsøe MH, Dalgaard T and Graversgaard M (2017) *Nabotjek af kvælstof- og fosforvirkemidler*. DCA Rapport, nr. 104, bind. 104, DCA - Nationalt Center for Fødevarer og Jordbrug. 978-87-93398-93-1 trykt udgave. 978-87-93398-94-8 elektronisk udgave. 119 p. <http://pure.au.dk/portal/files/117207724/DCArapport104.pdf>.
- 128) Bechmann M, Collentine D, Gertz F, Graversgaard M, Hasler B, Helin J, Jacobsen B, Rankinen K and Refsgaard K (2016) *Water management for Agriculture in The Nordic Countries. Agri environmental schemes and effectiveness and implementation*. Report 2/2/2016. NIBIO Norway. ISBN 978-82-17-01559-8, 55 p.



- 129) Dalgaard T, Cordovil CMA and Sutton MA (2016) *Report of the Task Force on Reactive Nitrogen*. Economic Commission for Europe. Executive Body for the Convention on Long-range Transboundary Air Pollution. Working Group on Strategies and Review. Fifty-fourth session, Geneva, 13 and 14 December 2016. United Nations Economic and Social Council ECE/EB.AIR/WG.5/2016/2. 11 p.
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- 132) Dalgaard T, Cordovil CMA and Sutton MA (2015) *Report of the Task Force on Reactive Nitrogen*. Economic Commission for Europe. Executive Body for the Convention on Long-range Transboundary Air Pollution. Working Group on Strategies and Review. Fifty-third session, Geneva, 15-17 December 2015. United Nations Economic and Social Council. Distr.: General, 6 October 2015. ECE/EB.AIR/WG.5/2015/2. 8 p.
- 133) Sutton MA, Dalgaard T, Cordovil CMS and Howard C (2015) *United Nations Economic Commission for Europe Framework Code for Good Agricultural Practice*. Published by The European Commission, Directorate-General Environment. The Task Force on Reactive Nitrogen of the UNECE Convention on Long-range Transboundary Air Pollution. 32 p. Available online at: http://www.unece.org/fileadmin/DAM/env/lrtap/Publications/Ammonia_SR136_28-4_HR.pdf, <http://www.unece.org/environmental-policy/conventions/envlrtapwelcome/publications.html>. <http://www.unece.org/index.php?id=41358>
- 134) Høie, IL (2014) *The Danish Drainage Water Monitoring programme – An approach for addressing nitrogen losses in Northern Jutland, Denmark* Master's thesis, (Principal supervisor: Lars Stoumann Jensen, Co-supervisor: Kristoffer Piil, KCA, Aarhus), submitted September 4, 2014. Dept. of Plant and Environmental Sciences, University of Copenhagen, 96 pp.

Det vurderes at arbejdet bag rapporterne i gennemsnit er 10% fra DNMARK, på nær nummer 134, der er 100% DNMARK.

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- 135) Geels C, Hansen KM, Andersen HE, Thodsen, H, Trolle, D, Bolding, K, Hasler, B, Zandersen, M, Gyldenkærne, S, Nyord, T & Timmermann, K (2016) *Developing a new management tool – a holistic view on the Nitrogen cycle*. In: Air Pollution Modelling and its Application XXIV. Springer, pp. 177-180.
- 136) Termansen M, Gylling, M; Jørgensen, U; Hermansen, JE; Hansen, LB; Knudsen, MT; Adamsen, APS; Ambye-Jensen, M; Jensen, MV; Jensen, SK; Andersen, HE; Gyldenkærne, S (2016) *Green Biomass*. DCA - National Center for Food and Agriculture, DCA Rapport; No. 073:38pp
- 137) Dalgaard T, Brock S, Hansen B, Hasler B, Hertel O, Hutchings NJ, Jacobsen B, Jensen L S, Kjeldsen C, Kronvang B, Olesen JE, Schjørring JK, Sigsgaard T, Graversgaard M, Turner K, Vejre H, de Vries W and Wiborg IA (2015) *DNMARK: Danish Nitrogen Mitigation Assessment: Research and Know-how for a sustainable, low-Nitrogen food production*. Chapter for the Book publication after the N2013 conference. http://dnmark.org/wp-content/uploads/2014/10/DNMARK_N2013revised2014_1001.pdf Springer Verlag, Berlin. 12 p.
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- 139) Sutton MA and Dalgaard T (2015) Foreword. In: Reis S, Howard CM, Sutton MA: *Costs of Ammonia Abatement and the Climate Co-Benefits*. Springer Verlag, Berlin. ISBN 978-94-017-9721-4. 280 p.
- 140) Sutton MA, Oenema O, Dalgaard T, Cordovil CMdS and Howard C (2015) *Preface*. In: Westhoek H, Lesschen JP, Leip A, Rood T, Wagner S, De Marco A, Murphy-Bokern D, Pallierre C, Howard C, Oenema O and Sutton MA. *Nitrogen on the Table: The influence of food choices on nitrogen emissions, greenhouse gas emissions and land use in Europe*. P. 5-6. ENA Special Report on Nitrogen and Food. Centre for Ecology & Hydrology, Edinburgh, UK. ISBN: 978-1-906698-51-5. 66 p. http://www.clrtap-tfrn.org/webfm_send/592
- 141) Termansen M, Gylling, M; Jørgensen, U; Hermansen, JE; Hansen, LB; Knudsen, MT; Adamsen, APS; Ambye-Jensen, M; Jensen, MV; Jensen, SK; Andersen, HE; Gyldenkerne, S. (2015) *Grøn biomasse*. DCA - National center for Food and Agriculture, DCA Report No. 068: pp36.
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- 144) Oenema O, Bittman S, Dedina M, Howard CM, Sutton M, Hutchings N and Klemont Z (2014) *Nitrogen Management taking into account the whole Nitrogen Cycle*. Chapter 3 in: Bittman S, Dedina M, Howard CM, Oenema O and Sutton M (eds.) *Options for Ammonia Mitigation. Guidance from the UNECE Task Force on Reactive Nitrogen*. P. v-vi. Centre for Ecology and Hydrology, The UK. ISBN 978-1-906698-46-1.
- 145) Oenema O, Sutton MA, Dalgaard T and Howard C (2014) *Preface*. In: Bittman S, Dedina M, Howard CM, Oenema O and Sutton M (eds.) *Options for Ammonia Mitigation. Guidance from the UNECE Task Force on Reactive Nitrogen*. P. v-vi. Centre for Ecology and Hydrology, The UK. ISBN 978-1-906698-46-1.
- 146) Andersen PS, Vejre H, Dalgaard T and Brandt J (2013) *Farm functionality changes in relation to changes in agricultural policies*. P. 93-148. In: Andersen, PS: *Temporal and spatial quantification of farm and landscape functions*. PhD thesis, University of Copenhagen, Department of Geoscience and Planning. 220 p.

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- 147) Hasler B, Hansen LB, Andersen HE & Konrad M (2015) *Modellering af omkostningseffektive reduktioner af kvælstoftilførslerne til Limfjorden: Dokumentation af model og resultater*. Notat. Aarhus University, DCE - Danish Centre for Environment and Energy.
- 148) Ørum JE og Jacobsen BH (2013) *Økonomisk konsekvens ved ændret kvælstofregulering – med udgangspunkt i Limfjorden*. Udredningsnotat 2013/6. Institut for Fødevarer og Ressourceøkonomi (IFRO), KU.

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- 149) Dalgaard T, Brock S, Cordovil CMS, Graversgaard M, Hansen B, Hashemi F, Hasler B, Hutchings NJ, Jacobsen B, Jensen LS, Kjeldsen C, Olesen JE, Schjørring JK, Sigsgaard T, Stubkjær Andersen P, Termansen M, Vejre H, Vestergaard Odgaard M, Wiborg IA (2018) *Landscape and national level solutions for a more sustainable N management in Denmark*.



- P. 454-555. In: Durand P et al. (2018, eds.) Coupling C - N - P - S cycles. Proceedings of the 20th Nitrogen Workshop. June 25-27, 2018. Couvent des Jacobins, Rennes, France. 473 p. <https://workshop.inra.fr/nitrogenworkshop2018>.
- 150) Hashemi F, Olesen JE, Dalgaard T, Børgesen CD (2018) *Spatially differentiated scenarios to reduce agricultural nitrogen emissions*. P. 31-32. In: Durand P et al. (2018, eds.) Coupling C - N - P - S cycles. Proceedings of the 20th Nitrogen Workshop. June 25-27, 2018. Couvent des Jacobins, Rennes, France. 473 p. <https://workshop.inra.fr/nitrogenworkshop2018>.
- 151) Kros J, Hutchings NJ, Kristensen I, Sillebak Kristensen I, Duus Børgesen C, Voogd JCH, Dalgaard T and de Vries W. (2018) *A comparison of disaggregated nitrogen budgets for Danish agriculture using Europe-wide and national approaches*. P. 104-105. In: Durand P et al. (2018, eds.) Coupling C - N - P - S cycles. Proceedings of the 20th Nitrogen Workshop. June 25-27, 2018. Couvent des Jacobins, Rennes, France. 473 p. <https://workshop.inra.fr/nitrogenworkshop2018>.
- 152) Dalgaard T, Brock S, Graversgaard M, Hansen B, Hashemi F, Hasler B, Hertel O, Hutchings NJ, Jacobsen B, Jensen LS, Kjeldsen C, Olesen JE, Schjørring JK, Sigsgaard T, Stubkjær Andersen P, Termansen M, Vejre H, Vestergaard Odgaard M, de Vries W, Wiborg IA (2017) *Sustainable Nitrogen Management in Denmark*. P. 13-16. In: Dalgaard T, Olesen JE and Schjørring J (2017, eds.) Innovative Solutions for Sustainable Management of Nitrogen. Conference Proceedings. Aarhus University and the www.dNmark.org Research Alliance. http://sustainableconference.dnmark.org/wp-content/uploads/2017/06/JYC_Final_Book-of-abstracts160617.pdf. 142 p. ISBN 978-87-93398-82-5.
- 153) Dalgaard T and Cordovil CMS (2017) *Nutrient budgeting for agricultural and environmental management – examples from contrasting farm types*. In: *Science and policy: nutrient management challenges for the next generation*. (Eds L. D. Currie and M. J. Hedley). Paper for Session 3: Farm Systems. 30th Annual FLRC Workshop. 7th, 8th and 9th February 2017. Massey University, Palmerston North, New Zealand. <http://flrc.massey.ac.nz/workshops/17/paperlist17.htm>.
- 154) Hansen, LB, Termansen, M and Hasler, B (2017) *Effectiveness of markets in nitrogen abatement: A Danish case study*. Paper presented at the 15th Congress of the European Association of Agricultural Economists EAAE 2017, Parma, Italy.
- 155) Hansen, LB, Termansen, M. and Hasler, B (2017) *Effectiveness of market in nitrogen abatement: a Danish case study*. Poster presented at the 23rd Annual Conference of European Association of Environmental and Resource Economists, Athens, Greece
- 156) Hasler, B, Hansen, LB, Konrad, MTH, Andersen, HE & Termansen, M (2017) *Spatial modelling integrating agricultural production, costs and hydrology for nitrogen policy assessments - a catchment approach*. In: Conference Proceedings, The International Nitrogen Initiative Conference INI2016, Melbourne, Australia, 05/12/2016.
- 157) Kronvang B, Blicher-Mathiesen G and Windolf J (2017) *30 years of nutrient management learnings from Denmark: A successful turnaround and novel ideas for the next generation*. In: *Science and policy: nutrient management challenges for the next generation*. (Eds L. D. Currie and M. J. Hedley). Fertilizer and Lime Research Centre, Massey University, Palmerston North, New Zealand. <http://flrc.massey.ac.nz/workshops/17/paperlist17.htm>. 10 p.
- 158) Olesen JE, Graversgaard M, Dalgaard T, Hutchings NJ and Jensen JD (2017) *Nitrogen solution scenarios*. P. 24-26. In: Dalgaard T, Olesen JE and Schjørring J (2017, eds.) Innovative Solutions for Sustainable Management of Nitrogen. Conference Proceedings. Aarhus University and the www.dNmark.org Research Alliance. http://sustainableconference.dnmark.org/wp-content/uploads/2017/06/JYC_Final_Book-of-abstracts160617.pdf. 142 p. ISBN 978-87-93398-82-5.
- 159) Sutton MA, Howard CM, Brownlie WJ, Skiba U, Hicks K, Winiwarter W, van Grinsven H, Bleeker A, Westhoek H, Oenema O, de Vries W, Leip A, Geupel M, Kugelberg S, Koslova N, Lukin SM, Bittman S, Amon B, Cordovil C M d S and Dalgaard T (2018) *The European Nitrogen Assessment 6 years after: What was the outcome and what are the future research challenges?* P. 40-49. In: Dalgaard T, Olesen JE and Schjørring J (2017, eds.) Innovative Solutions for Sustainable Management of Nitrogen. Conference



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http://sustainablenconference.dnmark.org/wp-content/uploads/2017/06/JYC_Final_Book-of-abstracts160617.pdf. 142 p. ISBN 978-87-93398-82-5.

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- 161) Gómez-Muñoz B., Larsen, J., Bekiaris, G., Scheutz, C., Jensen, L.S., Nielsen, S. (2016) *Nitrogen Mineralisation and Greenhouse Gas Emission from Soil Application of Sludge from Sludge Treatment Reed Bed Systems*. Conference Proceeding of 19th N Workshop, 27-29 June 2016, Skara, Sweden, p75-76. Poster presentation.
- 162) Gómez-Muñoz B., Magid J., Jensen, L.S. (2016) *Urban and Agricultural Waste Application Affects Nitrogen Turnover, Crop Uptake Efficiency and Soil Fertility in a Long-Term Field Experiment*. Conference Proceeding of 19th N Workshop, 27-29 June 2016, Skara, Sweden, p120-121. Poster presentation.
- 163) Dalgaard T, Brock S, Børgesen CD, Graversgaard M, Hansen B, Hasler B, Hertel O, Hutchings NJ, Jacobsen B, Jensen LS, Kjeldsen C, Olesen JE, Schjørring JK, Sigsgaard T, Andersen PS, Termansen M, Vejre H, Odgaard MV, de Vries W and Wiborg I (2016). *Solution scenarios and the effect of top down versus bottom up N mitigation measures – Experiences from the Danish Nitrogen Assessment*. Feature Presentation for the International Nitrogen Initiative Conference INI2016. Melbourne Australia, Dec 5-8 2016. <http://www.ini2016.com/1236>, http://www.ini2016.com/pdf-papers/INI2016_Dalgaard_Tommy.pdf.
- 164) Graversgaard M, Dalgaard T, Leach AM, Cattaneo LR and Galloway JN (2016) *The preliminary Danish nitrogen footprint - Applying nitrogen footprints and using policy scenarios to change behavior*. Impact presentation for the International Nitrogen Initiative Conference INI2016. Melbourne Australia, Dec 5-8 2016.
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- 168) Hansen LB, Hasler B and Termansen M (2016) *Incentives for nitrogen effects trading: A Danish farmer survey*. Paper presentation. The Danish Environmental Economic Conference, 25-26 August 2016, Skodsborg, Denmark.
- 169) Hasler B, Hansen LB, Konrad M, Andersen HE and Termansen M (2016) *Spatial modelling of non-point nitrogen loads to fulfill water quality policies*. Paper accepted for oral presentation, European Association of Environmental and Resource Economists, Annual Conference, Zyrich, 22-25 June, 2016. <http://www.eaere2016.org/>
- 170) Kros H, Hutchings N, Kristensen IT, Kristensen IS, Børgesen CD, Voogd JC, Dalgaard T and de Vries W (2016) *A comparison of disaggregated nitrogen budgets for Danish agriculture*. Poster paper presentation for the International Nitrogen Initiative Conference INI2016. Melbourne Australia, Dec 5-8 2016. http://www.ini2016.com/pdf-papers/INI2016_de%20Vries_Wim3.pdf, <http://www.ini2016.com/pdf-posters/de%20Vries%20-%203.pdf>.
- 171) Jensen NL, Hansen B, Schullehner J and Kristiansen SM (2016) *A survey of potential carcinogenic compounds in Danish private wells – nitrate and arsenic*. Poster at ISEH conference, Galway, Ireland, August, 2016.



- 172) Kejser A, Jensen F, Olsen SB (2016) *Welfare Weights in Benefit Transfer Studies: A Normative or Positive Economic Argument?* Paper for presentation at the 22nd EAERE conference. <http://www.eaere2016.ethz.ch/>. Zurich, June 22.-25. 2016.
- 173) Schullehner J, Hansen B, Thygesen M, Pedersen CB and Sigsgaard T (2016) *Nitrate in drinking water and colorectal cancer*. Oral presentation at at ISEH conference, Galway, Ireland, August, 2016.
- 174) Thorling L and Hansen B (2016) *Knowledge based protection of groundwater through monitoring and modelling of nitrate*. Oral presentation at at international N conference, San Francisco, USA, June, 2016.
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- 176) Kejser A (2015) *European Attitudes to Water Pricing: Recovery of Environmental and Resource Costs*. Paper presentation at EAERE conference June 24-27 2015 (European Association of Environmental and Resource Economists) <http://www.eaere2015.org/>. Helsinki, Finland.
- 177) Nainggolan D, Termansen M, Andersen HE, Gyldenkærne S, Thomsen M, Hasler B (2015) *Modelling cost-effective strategies for managing trade-offs and synergies between water and climate regulation in the Baltic Sea region*. Paper presented at 21st Annual Conference of the European Association of Environmental and Resource Economists, Helsinki, Finland.
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Bidragene er alle tæt på 100% finansieret fra DNMARK, på nær reference 159 og 177, der skønsmæssigt er 10% DNMARK relateret.

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- 179) Graversgaard M, Dalgaard T, Hoffmann CC, Jacobsen BH, Powell N, Strand J, Feuerbach P and Tonderski K (2018) *Public policies for wetland implementation in Denmark and Sweden – historical lessons and emerging issues*. The 3rd BONUS Symposium Sustainable Ecosystem Governance under Changing Climate and Land Use in the Baltic Sea Region, Gdańsk, 14-16 March, 2018. Book of Abstracts http://bonus2018.eu/wp-content/uploads/2017/03/Book-of-Abstract_Final.pdf, p. 34.
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- 182) Alonso-Ayuso M, Gabriel JL, Quemada M, Vanclooster M (2017) *Implications of the cover crop killing date on N and water cycles under different scenarios*. Abstract (poster). "Innovative solutions for sustainable management of Nitrogen" Conference Proceedings, p. 97. Aarhus University, June 26-28, 2017. ISBN 978-87-93398-82-5.
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- 343) Kronvang B, Blicher-Mathiesen G, Windolf J & Grant R (2013) *A Hindcast and Forecast of Management of Agricultural Nutrient Losses in Denmark: a Change in Paradigm*. Invited presentation at AGU Fall meeting, Dec. 09-13, 2013 San Francisco, USA.
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Bidragene er alle tæt på 100 finansieret fra DNMARK, på nær 180-182, 186-194, 197-202, 211-217, 221, 225, 233-236, 238-239, 246-247, 250-263, 265-266, 268-277, 280-285, 287-292, 294-297 og 327 der primært er eksterne bidrag til den internationale dNmark konference og skønsmæssigt i gennemsnit er 5% DNMARK relateret.

Patents (patenter/ patentansøgninger)

Forskningsalliancens arbejde har ikke haft til formål at optage patenter.

Datasets (delivered to Dansk Dataarkiv)

- 348) Jensen AK (2015) *dNmark valuation study*. Access: <https://sid.erda.dk/sharelink/dbvRvqoRrg>

Planned publications (Planlagte publikationer, med angivet type)

The following reviewed journal publications have been submitted and are under revision for inclusion in the dNmark Journal of Environmental Management special issue:

- 349) Briukhanov A, Kozlova N, Vasilev E, Shalavina E, Subbotin I, Lukin S (2019) *Environmental assessment of livestock farms in the context of BAT system introduction in Russia*.



- 350) Carstensen MV, Larsen SE, Kjaergaard C and Hoffmann CC (2019) *Reducing adverse side effects by seasonally lowering nitrate removal in subsurface flow constructed wetlands.*
- 351) Einarsson R and Cederberg C (2019) *Is the nitrogen footprint fit for purpose? An assessment of models and proposed uses.*
- 352) Elwan A, Singh R, Horne D, Manderson A, Roygard J, Clothier B and Jones G (2019) *Spatial modelling of nitrogen attenuation capacity and land-based nitrogen loads to rivers.*
- 353) Jacobsen BH, Latacz-Lohmann U, Luesink H, Michels T and Ståhl L (2019) *Costs of regulating ammonia emissions from livestock farms near Natura 2000 areas - Experiences from Germany, Netherlands and Denmark.*
- 354) Leip A, Ledgard S, Uwizeye A et al. (2019) *The value of manure - manure as co-product in life cycle assessment.*
- 355) Moklyachuk L and Pinchuk V (2019) *Reactive Nitrogen in the Agriculture of Ukraine.*
- 356) Ptak EN, Busck AG, Refsgaard JC and Dalgaard T (2019) *A study of the role of agricultural advisory services and social capital in the nitrate management discourse of Poland.*
- 357) Sundrum A (2019) *Real-farming emissions of reactive nitrogen - necessities and challenges.*
- 358) Uggeldahl K and Olsen SB (2019) *Public preferences for co-benefits of riparian buffer strips in Denmark: An economic valuation study.*
- 359) Vogeler I, Hansen EM, Thomsen IK and Østergaard HS (2019) *Legumes in catch crop mixtures: Effects on nitrogen retention and availability, and leaching losses.*

Special Issue udgives og redigeres som en del af DNMARK alliancen, med ingen af de her listede bidrag er selvstændigt finansieret fra DNMARK, på nær 356 og 356, der indirekte har relation til alliancens arbejde. De special issue papers der direkte har relation til DNMARK fremgår af listen med reviewede papers ovenfor.

Other research dissemination (Anden formidling)

Contributions to TV programs, newspapers and other types of public dissemination TV, radio, aviser og andre massemedier

- 360) Viborg Stifts Folkeblad (2019) *Græsdyrkning kan løse miljøproblemer.* Refereret i artikel af journalist Jakob Thorup Thomsen. Onsdag den 9. januar. Side 15.
- 361) YouTube (2019) *De mange sider af kvælstof.* Sutton M, Dragosits U, Cordovil C and Dalgaard T (scientific eds.). Nitrogen film in Danish for the dNmark.org Research Alliance. Available via <http://dnmark.org/?p=3083> and the Youtube channel Agroecology DK (<https://www.youtube.com/channel/UCR2O0VSu0rgj2VIC09A5Trw>). The Nitroportugal EU H2020-twin-2015 project. University of Lisbon, Centre for Ecology and Hydrology and Aarhus University.
- 362) YouTube (2019) *The many faces of nitrogen.* Sutton M, Dragosits U, Cordovil C and Dalgaard T (scientific eds.). (2019). English texted, Danish speaking Nitrogen film for the dNmark.org Research Alliance. Available via <http://dnmark.org/?p=3083&lang=en> and the Youtube channel Agroecology DK (<https://www.youtube.com/channel/UCR2O0VSu0rgj2VIC09A5Trw>). University of Lisbon, Centre for Hydrology and Aarhus University.
- 363) Information (2018) *Esben Lunde: Nitratgrænse for drikkevand skal ikke skærpes.* Information page 6-7, 6.4.2018. af Jørgen Steen Nielsen.
- 364) Nationalt Center for Fødevarer og Jordbrug (2018) *Målene i vandplanerne kan opnås - med investeringer og geografisk målretning.* DCA - Nationalt Center for Fødevarer og Jordbrug, Aarhus Universitet, Foulum. Nyhedsbrev uge 51. Interview v/ journalist Janne



- Hansen. <http://dca.au.dk/aktuelt/nyheder/vis/artikel/maalene-i-vandplanerne-kan-opnaas-med-investeringer-og-geografisk-maalretning/>.
- 365) Danish Centre for Food and Agriculture (2018) *Mapping provides a better basis for targeted regulation* <http://dca.au.dk/en/current-news/news/show/artikel/kortlaegning-giver-bedre-grundlag-for-maalrettet-regulering/>. Food and Agriculture, November 2018.
- 366) Danish Centre for Food and Agriculture (2018) *How can we combine farming with protection of Europe's drinking water?* <http://dca.au.dk/en/current-news/news/show/artikel/how-can-we-combine-farming-with-protection-of-europes-drinking-water/>. Food and Agriculture, July 2018.
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- 368) Nationalt Center for Fødevarer og Jordbrug (2018) *Kortlægning giver bedre grundlag for målrettet regulering*. <http://dca.au.dk/aktuelt/nyheder/vis/artikel/kortlaegning-giver-bedre-grundlag-for-maalrettet-regulering/>
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- 414) [Undersøgelse: Nitrat i drikkevandet øger risikoen for kræft \(v.1\)](#)
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- 433) [Nitrat i drikkevand kan øge kræftisiko](#) 19. februar
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- 569) Pedersen B (2015) På udkig efter nyt måleudstyr til en målrettet indsats. <http://dnmark.org/?p=2281>
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- 571) Landbrugsinfo (2013) *Arrangementer om planteproduktion - møder, kurser m.m.* 08.03.13 LandbrugsInfo. https://www.landbrugsinfo.dk/Planteavl/Sider/pl_arrangementer.aspx.
- 572) Landbrugsinfo (2014) *Specialestuderende sætter lup på det nordjyske drænvand*. Nyhed 5-11-2014, v. Bodil Pedersen, Videnscenter for Landbrug (https://www.landbrugsinfo.dk/Planteavl/Goedskning/Naeringsstoffer/Kvaelstof-N/Kvaelstofudvaskning/Sider/specialestuderende-lup-draenvand_pl_14_1950.aspx).
- 573) Landbrugsinfo (2014) *Workshop om fremtidens landbrug og natur*. 07.01.15 LandbrugsInfo https://www.landbrugsinfo.dk/Miljoe/Sider/pl_miljoe_dnmark_workshop.aspx

In total, the newsfeed list at <http://dnmark.org/> until now include a list of more than 100 entries. Moreover, the DNMARK participants contributed to a series of oral presentations during meetings with farmers and other relevant stakeholders, locally, nationally, and internationally.

Education (uddannelse)

Especially, the agriculture and food production related educations at Aarhus and Copenhagen University have gained from results and practical examples from the DNMARK research components. This include input to MSc thesis and other project topics - see for example Dalgaard (2017) below, and Høie (2014) (reference above). Moreover, the DNMARK study sites are used as excursion sites, for example during the Agroecology BSc course at Aarhus University. Guest lectures for courses at universities outside the alliance have moreover been



performed (for instance for Aalborg University students in the 15 ECTS Sustainability course 2017), and guest students have been hosted (for instance from INRA in Rennes, France, and from University of Lisbon, Portugal). The DNMARK results are used in broader public education, like the following public blogs and catalogues for students:

574) Dalgaard T (2017, ed.) *Master Thesis Projects. Topics within Agroecology.*

AgroEnvironmental Management and Agrobiolgy MSc Programmes 2017-2018. Aarhus University, Department of Agroecology, April 2017. 79 p.

575) Dalgaard T (2016, ed.) *Master Thesis Projects. Topics within Agroecology.*

AgroEnvironmental Management and Agrobiolgy MSc Programmes 2016-2017. Aarhus University, Department of Agroecology, April 2016.

576) Andersen SS (2015) *Contribution to the Cork Environmental Forum website blog* entries in:

<http://www.cef.ie/category/blog-meaty-matters-anecdotes-and-opinions-about-eating-less-meat/page/3/>. 'Meaty Matters'; about the Meat Dogma Blogging Project (called Meat Pledge in Ireland).

577) Dalgaard T (2015, ed.) *Master Thesis Projects. Topics within Agroecology.*

AgroEnvironmental Management and Agrobiolgy MSc Programmes 2015-2016. Aarhus University, Department of Agroecology, April 2015. 74 p.

And the following summer university course have been initiated partly from dNmark:

578) Aarhus University (2017-) *Integrated Nutrient Management.*

<http://international.au.dk/education/admissions/summeruniversity/course/integratednutrientmanagement19/>. 5 ECTS MSc level annual summer University course, co-hosted by the Aarhus University MSc education in Agro-Environmental Management, Denmark, and the Graduate School of Global Food Resources, Hokkaido University, Japan.