

Curriculum vitae - Anne-Kristin Løes

Norwegian Centre for Organic Agriculture (NORSØK), Gunnars veg 6, N-6630 Tingvoll, Norway.

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General information:

Date of birth: January 10th, **1961**

Nationality: Norwegian

Spoken languages: Norwegian, English, German

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330 records I Organic E-prints

Main education:

M.Sc. in soil sciences at the Agricultural University of Norway, Ås, **1986**.

Doctor Scientiarum in plant nutrition and soil chemistry at the Norwegian University of Life Sciences, NMBU (formerly the Agricultural University of Norway), Ås, **2004**. Title of Dr.Sc. thesis: Studies of the availability of soil phosphorus (P) and potassium (K) in organic farming systems, and of plant adaptations to low P- and K-availability. Doctor Scientiarum Thesis 2003:29, NMBU. ISSN: 0802-3220 ISBN: 82-575-0569-2, 117 p.

Current and former employment:

2016 - : Researcher/senior researcher in Norwegian Centre for Organic Agriculture (NORSØK), Tingvoll.

2006-2015: Researcher and senior researcher in Bioforsk Norwegian Institute of Agricultural and Environmental Research, Organic Food and Farming division.

1988-2005: Researcher in Norwegian Centre for Ecological Agriculture (NORSØK). This Centre was part of Bioforsk during 2006-2015.

1998-2000: Editor of Herba, the Norwegian journal on biodynamic farming (part-time position).

1987-1988: Teacher in mathematics and biology grade 9-11, Waldorf School in Moss, Norway.

1986-1987: Research assistant on the "Høylandet project" on surface water acidification and terrestrial ecosystems, with the main task to describe 75 soil profiles in spruce forests in Norway and W. Germany. Project coordinated by prof. Eilif Dahl, Økoforsk.

Completed projects coordinated by AK Løes:

2023-2024: *Sea-preserved crab shells: test of liming and plant-strengthening effect*. Funded by the Regional Research Fund (RFF) of Trøndelag.

2020-2021: *Seaweed fibre for increased soil organic matter*. Funded by RFF Møre og Romsdal.

2019-2020: *Organic potatoes in Mid-Norway – the potential of early cultivars and good agronomy*.

Funded by RFF Mid-Norway (RFF Midt) and the county governors in Trøndelag and Møre og Romsdal.

2017-2022: *Marine rest raw materials for fertilizers to organic agriculture*. Funded by Møre og Romsdal county council.

2016-2018: *Quality grains for food – the potential of non-commercialized Norwegian varietal material*. Funded by the Norwegian Agriculture Agency (NAA) and the county governors in Oppland and Trøndelag.

2016-17: *Reduced nitrogen emissions from digestate with application of marble*. Funded by RFF Midt.

2012-14: *Documentation of energy production and GHG emissions in a farm level biogas plant digesting animal manure and various types of fish waste (Biogasdok)*. Funded by the Agricultural Agreement Fund (AAF).

2011: *Farm-based biogas plants in Mid-Norway, qualification project to reveal knowledge gaps (Biogasskunnskap)*. Funded by RFF Midt.

2010-2014: *Effects of anaerobically digested manure on soil fertility - establishment of a long-term study under Norwegian conditions (SoilEffects)*. Funded by the Research Council of Norway (RCN) and AAF.

2007-10: *innovative Public Organic food Procurement for Youth (iPOPY)*. Funded by RCN and the CORE Organic I Funding Body Network (ERA-net).

2007-08: *Reasons for opting out of certified organic production in Norway*. Funded by RCN and AAF.

2003-04: *Combined nutrient supply and weed regulation in organic vegetable production by grass mulch*. Funded by NAA.

1993-96: *Agronomy and economy in organic farming – whole farm case studies*. Funded by AAF.

1988-1992: *The “Thirty farm-project”*. Funded by AAF.

Completed and ongoing projects where AK Løes is/was a WP leader:

2025-2029: The role of diversified small-scale horticulture in a transition towards more sustainable food systems with healthier diets (SmallHort). Funder by RCN. Leader of WP4: Safe composting methods for organic waste.

2024-2025: Compost from blue mussel residues. Funded by RFF Trøndelag. Leader of the scientific WPs.

2021-2024: Sustainable utilization of MARine resources to foster GREEN plant production in Europe – MARIGREEN. Blue Bio ERA-net project, funded by RCN and others. Leader of WP 3: Valorization of blue biomass by appropriate treatment technologies.

2019-2023: Farmers and the city: enhancing added value and sustainability through optimized use of urban and peri-urban farm resources. Research project funded by RCN. Leader of WP4: Maintaining soil health in urban areas.

2018-2022: Organic-PLUS: Pathways to phase-out contentious inputs from organic agriculture in Europe. RIA-EU project funded by Horizon 2020, coordinated by Coventry university, UK. Leader of WP5: Soil.

2013-2017: Total utilization of raw materials in the supply chain for food with a bio-economical perspective (Cycle). Research project funded by RCN. Leader of WP3: Bio-processing of waste for feed, fertilizer and energy.

2014-2017: Helhetlig bioØkonomisk utnyttelse av verpehøNE (HØNE) (Holistic bioEconomical utilisation of laying hens). Research project funded by RFF Midt. Leader of WP3: Utilization of laying hens as feed and fertilizer.

2013-16: IMproved Phosphorus Resource efficiency in Organic agriculture Via recycling and Enhanced biological mobilization (Improve-P). CORE Organic II ERA-net project funded by RCN and others. Leader of WP4: Stakeholder perceptions about applicability of alternative P fertilizers in organic farming.

Ongoing projects where AK Løes participates with no coordinating responsibility:

2025-2028: Nutrient balance and resource optimisation in regional ecosystems through holistic, sustainable and zero-pollution solution (Greenhood). Horizon Europe project, CL6-2024 Zeropollution 01-1.

2022-2025: Value creation and ecosystem services of European seaweed industry by reducing and handling potentially toxic elements from breeding to soil (SeaSoil). Blue Bio ERA-net project, funded by RCN and others, coordinated by prof. Ingrid Olesen, Nofima.

Other relevant experience and positions:

- Member of the board of ISOFAR, International Society for Organic Farming Research 2008- 2021. Vice president 2011-2017, treasurer 2018-2021.
- Associated editor of the scientific journal Organic Agriculture (Springer) 2014-
- Member of Tingvoll municipality council 2013-2019.
- Norwegian editor of the digital archive Organic E-prints, www.orgprints.org 2005-2015.

- Leader of planning committee NJF (Nordic Association of Agricultural Science) seminar 461, “Organic farming systems as a driver for change”, Bredsten, Denmark August 21-23 2013.
- Member of planning committee NJF seminar 401, “Phosphorus management in Nordic-Baltic agriculture – reconciling productivity and environmental protection”, Uppsala, Sweden September 22-23, 2008.
- Leader of planning committee NJF seminar 369, “Organic farming for a new millennium – status and future challenges”, Alnarp, Sweden June 15-17, 2005.

Evaluation of PhD theses, M Sc theses, review and evaluation:

- Member of assessment committee for Lærke Wester Larsen, PhD; doctoral thesis: “Novel biobased nitrogen fertilizers: Risks of nitrogen losses, agronomic performance & effects on soil quality”. Department of Plant and Environmental Sciences, University of Copenhagen, Denmark. March 2024.
- Member of assessment committee for Siri Pugesgaard, PhD; doctoral thesis: “Environmental effects of agricultural production of biomass for energy on arable land”. Institute for Agroecology, Faculty of Science and Technology, Aarhus University, Denmark. June 2014.
- Opponent for Tora Råberg, PhD, doctoral thesis: “Strategic nitrogen management in stockless organic cropping systems”. Faculty of Landscape Architecture, Horticulture and Crop Production Science, Dep. of Biosystems and Technology, Alnarp. Swedish University of Agricultural Sciences, Acta Universitatis agriculturae Sueciae 2012:2017. ISSN 1652-6880.
- Member of assessment committee for Annbjørg Øverli Kristoffersen, Doctor scientiarum; doctoral thesis: “Availability and utilization of soil and fertilizer phosphorous with focus on starter fertilization in spring cereals”, published by the Norwegian Crop Research Institute and NMBU, 2005.
- Local supervisor for PhD student Joshua Cabell, NORSØK
- Lectures and censorship (4 M Sc theses) at NMBU
- Paper review, several journals
- Evaluation of research proposals for ICROFS

Scientific publications in English since 2016. Papers in peer-reviewed journals in bold:

2024:

Løes AK, Eiter S, Rittl T. Calculating the effect of intensive use of urban organic waste on soil concentrations of potentially toxic elements in a peri-urban agriculture context in Norway.

Environmental Sciences Europe 36, pp. 1-15.

Cabell J, Eich-Greatorex S, Ion VA, Krogstad T, Matsia S, Perikli M, Salifoglou A, Løes AK. Suitability of Residues from Seaweed and Fish Processing for Composting and as Fertilizer.

Sustainability 16 (16), pp. 1-23.

Cabell J, Letelier-Gordo CO, Løes AK, Seow HC. Practical studies of lignocellulose filter cake from RAS sludge. NORSØK Report, no. 5, Vol 9. NORSØK, Tingvoll, Norway.

Løes AK, Cabell J, Stensrud AF, Torp T 2024. Testing biostimulant effects of composted marine materials. NORSØK report, no. Volume 9 No. 12. Norwegian Centre for Organic Agriculture (NORSØK), Tingvoll, Norway.

Mot A, Parvulescu OC, Ion VA, Molosag A, Dobrin A, Badulescu L, Orbeci C, Egri D, Dobre T, Løes AK, Cabell J, Salifoglou A, Matsia S, Letelier-Gordo CO, Raducanu C, Mocanu A 2024.

Preparation, Characterization, and Testing of Compost Tea Derived from Seaweed and Fish Residues. **Agronomy** 14(9), 1919 doi [org/10.3390/agronomy14091919](https://doi.org/10.3390/agronomy14091919)

2023:

Cabell J, Løes AK. Blue biomass composting technology. NORSØK Report, no. No. 4 Vol 8, 2023. NORSØK, Tingvoll, Norway.

Maroulis M, Matsia S, Lazopoulos G, Parvulescu OC, Ion VA, Bujor OC, Cabell J, Løes AK, Salifoglou A. Chemical and Biological Profiling of Fish and Seaweed Residues to Be Applied for Plant Fertilization. **Agronomy** 13 (9), p. 2258.

Moloşag A, Pârvulescu OC, Ion VA, Asănică AC, Soane R, Moţ A, Dobrin A, Frîncu M, Løes AK, Cabell J., et al. 2023. Effects of Marine Residue-Derived Fertilizers on Strawberry Growth, Nutrient Content, Fruit Yield and Quality. **Agronomy** 26.4.2023, doi [org/10.3390/agronomy13051221](https://doi.org/10.3390/agronomy13051221)

Rittl TF, Grønmyr F, Bakken I, Løes AK 2023. Effects of organic amendments and cover crops on soil characteristics and potato yields. **Acta Agriculturae Scandinavica, Section B — Soil & Plant Science** 73 (1): 13-26. doi [10.1080/09064710.2023.2165963](https://doi.org/10.1080/09064710.2023.2165963)

Rittl TF, Pommeresche R, Johansen A, Steinshamn H, Riley H, Løes AK. Anaerobic digestion of dairy cattle slurry – long-term effects on crop yields and chemical soil characteristics. **Organic Agriculture** 13(3): 1-17.

2022:

Caceres R, Carreras M, Pecenka R, Dittrich C, Kir A, Rayns F, Conroy J, Touliatos D, Schmutz U, Lykas C, Kazi M, Zografou M, Katsoulas N, McKinnon K, Løes AK 2022. Report on trials with alternative growing media (replacement of contentious input peat). Organic PLUS: Pathways to phase-out contentious inputs from organic agriculture in Europe, Deliverable 5.8. <https://orgprints.org/id/eprint/32068/>

Caceres R, Carreras M, Colom G, Manubens J, Rayns F, Conroy J, Touliatos D, Schmutz U, Lennartsson Margi, Kir A, Løes AK, McKinnon K, Pecenka R, Dittrich C 2022. Report on Farmer-focused open days. Organic PLUS: Pathways to phase-out contentious inputs from organic agriculture in Europe, Deliverable 5.9. <https://orgprints.org/id/eprint/40078>

Friis Pedersen S, Løes AK 2022. Phasing out peat in growing media - results from Scandinavian studies. NORSØK Report, Vol. 7 (1), Norwegian Centre for Organic Agriculture (NORSØK), Tingvoll, Norway. <https://orgprints.org/id/eprint/43319/>

Løes AK, Ahlin JP, Ahuja I, Krogstad T, Smevoll S, Waag, H. 2022. Valorisation of Fish Bones: Effects of Preservation by Formic Acid on AL-extractable calcium, Phosphorus, Magnesium, and Potassium. **Waste Biomass Valorization** 13: 3547-3559 doi.org/10.1007/s12649-022-01744-7

Løes AK, Ahuja I, de Boer A, Rittl TF 2022. Fertilisation effects of marine-derived residual materials on agricultural crops. NORSØK Report, Vol. 7 (13), NORSØK, Tingvoll. <https://orgprints.org/id/eprint/45330/>

Løes AK, Grønmyr F, Pommeresche R, Rittl TF, Stensrud AF 2022. Algae fibre for soil improvement (FIMO). NORSØK Report, Vol. 7 (8), NORSØK, Tingvoll. <https://orgprints.org/id/eprint/44040/>

McKinnon K, Løes AK, Synnes OM, Kvalsund E 2022. Ullpellets som gjødsel. NORSØK Rapport, Vol. 7 (6), NORSØK, Tingvoll. <https://orgprints.org/id/eprint/44452/>

Rittl TF, Grønmyr F, Bakken I, Løes AK 2022. Effect of soil organic matter management on soil characteristics, potato yield and potato disease in an intensive potato growing system (MERMOLD). NORSØK Report, Vol. 7 (10), NORSØK, Tingvoll. <https://orgprints.org/id/eprint/44420/>

Zikeli S, Weiler CS, Løes AK, Conroy J, Rayns F, Touliatos D, Malinska K, Drozd D, Laursen C 2022. Technical report on alternative fertilisers (arable farming and vegetables). Organic PLUS: Pathways to phase-out contentious inputs from organic agriculture in Europe, Deliverable 5.7. University of Hohenheim, Hohenheim, Stuttgart, Germany. <https://orgprints.org/id/eprint/40076/>

Zikeli S, Weiler CS, Løes AK, Conroy J, Rayns F, Touliatos D, Schmutz U, Malinska K, Drozd D, Laursen C 2022. Summary paper on alternative fertilisers. Organic PLUS: Pathways to phase-out contentious inputs from organic agriculture in Europe, Deliverable 5.6. University of Hohenheim, Hohenheim, Stuttgart, Germany. <https://orgprints.org/id/eprint/40077/>

2021:

Dittrich C, Pecenka R, Løes AK, Cáceres R, Conroy J, Rayns F, Schmutz U, Kir A, Kruggel-Emden H 2021. Extrusion of different plants into fibre for peat replacement in growing media: adjustment of

parameters to achieve satisfactory physical fibre-properties. **Agronomy** 11(6) doi 10.3390/agronomy11061185

Kir A, Løes AK, Cetinel B, Turan HS, Aydogdu E, Pecenka R, Dittrich C, Cáceres R, Lennartsson MT, Rayns F, Conroy J, Schmutz U 2021. Testing peat-free growing media based on olive wood residues for olive saplings. **ISHS Acta Horticulturae** 1317: II International Symposium on Growing Media, Soilless Cultivation, and Compost Utilization in Horticulture doi 10.17660/ActaHortic.2021.1317.4

Løes AK, Ahuja I, deBoer A 2021. Harvesting our fertilisers from the sea - an approach to close the nutrient gaps in organic farming. Paper at Organic World Congress 2021 (**OWC 2021**), Science Forum: 6th ISOFAR Conference co-organised with INRA, FiBL, Agroecology Europe, TP Organics and ITAB, Rennes, France, 8-10 September 2021. orgprints.org/42198

Løes AK, Schmutz U, Katsoulas N, Cáceres R, de Cara MF, Cirvillieri G, Kir A, Knebl Lucas, Malinska K, Oudshoorn F, Raskin B, Rayns F, Valleix S, Conroy J 2021. Peat, plastic and fertilisers in organic growing across Europe - current use and future options. Paper at OWC 2021. orgprints.org/42298

Rittl T, Bakken I, Grønmyr F, Heltoft P, Stewart L, Husby A, Fløystad K, Løes AK 2021. Biochar coating potential to suppress storage diseases in carrots and potatoes (CHARCOAT). **NORSØK Report** Vol. 6 (12), <https://orgprints.org/40121>

Løes AK 2020. Feeding the reactors: potentials in re-cycled organic fertilisers. **Organic Agric.** doi 10.1007/s13165-020-00314-2

Løes AK, Khalil R, McKinnon K 2020. Exhaust Gas Concentrations and Elemental Losses from a Composting Drum Treating Horse Manure. **Compost Sci. Util.** 28: 36-48. doi: 10.1080/1065657X.2020.1749182

Løes AK, Frøseth RB, Dieseth, JA, Skaret J, Lindö C 2020. What should organic farmers grow: heritage or modern spring wheat cultivars? **Organic Agric.** 10: 93-108. doi 10.1007/s13165-020-00301-7

2020:

Ahuja I, Dauksas E, Remme JF, Richardsen R, Løes AK 2020. Fish and fish waste-based fertilizers in organic farming – With status in Norway: A review. **Waste Management** 115: 95–112. doi 10.1016/j.wasman.2020.07.025

Katsoulas N, Løes AK, Andrivon D, Cirvillieri G, de Cara MF, Kir, A, Knebl L, Malinska K, Oudshoorn FW, Willer H, Schmutz U 2020. Current use of copper, mineral oils and sulphur for plant protection in organic horticultural crops across 10 European countries. **Organic Agric.** 10:159-171. doi 10.1007/s13165-020-00330-2

2019:

Løes AK, Adler S 2019. Increased utilisation of renewable resources: dilemmas for organic agriculture. **Organic Agric.** 9:459–469 doi /10.1007/s13165-018-00242-2

Ahuja I, Løes AK 2019. Effect of fish bones and algae fibre as fertilisers for ryegrass. **NORSØK report** Vol. 4 (7), <https://orgprints.org/36439>

Rittl T, Krogstad T, Eikås S, Saltnes T, Sørensen G, Glestad HE, Løes AK 2019. Effects of struvite application on soil and plants: a short-term field study. **NORSØK report** Vol. 4 (10), <https://orgprints.org/36472>

2018:

Adler SA, Slizyte R, Honkapää K, Løes AK 2018. In vitro pepsin digestibility and amino acid composition in soluble and residual fractions of hydrolyzed chicken feathers. **Poult Sci.** 97(9):3343-3357. doi 10.3382/ps/pey175.

Cooper J, Reed EY, Hörtenhuber S, Lindenthal T, Løes AK, Mäder P, Magid J, Oberson A, Kolbe H, Möller K 2018. Phosphorus availability on many organically managed farms in Europe. **Nutrient Cycl. Agroecosyst.** doi 10.1007/s10705-017-9894-2.

Möller K, Oberson A, Bünemann EK, Cooper J, Friedel JK, Glæsner N, Hörtenhuber S, Løes AK, Mäder P, Meyer G, Müller T, Symanczik S, Weissengruber L, Wollmann I, Magid J. Improved phosphorus recycling in organic farming: navigating between constraints. **Advances in Agronomy** 147: 159-237. doi: 10.1016/bs.agron.2017.10.004

2017:

Løes AK 2017. Laying hens for soil fertilization. NORSØK Report Vol. 2 (13). NORSØK, Tingvoll. <https://orgprints.org/32518>

Løes AK, Ebbesvik ME 2017. Phosphorus deficits by long-term organic dairy farming? In: Rahmann, G. et al. (2017) Proceedings of the Scientific Track “Innovative Research for Organic Agriculture 3.0”, Organic World Congress 2017 in New Delhi, India, November 9-11, 2017, p. 530-533.

Løes AK, Sandquist J, Meyer G 2017. Elemental composition and phosphorous availability in hydrochars from seaweed and organic waste digestate. **Acta Agric. Scand. Sect. B Pl Soil Sci**, doi 10.1080/09064710.2017.1363909

Pommeresche R, Løes AK, Torp T 2017. Effects of animal manure application on springtails (Collembola) in perennial ley. **Applied Soil Ecology** 1001: 137-145.

Rahmann G, Ardakani MR, Barberi P, Boehm H, Canali S, Chander M, David W, Dengel L, Erismann JW, Galvis-Martinez AC, Hamm U, Kahl J, Koepke U, Kuhne S, Lee SB, Løes AK, Moos JH, Neuhofer D, Nuutila JT, Olwe V, Oppermann R, Rembialkowska E, Riddle J, Rasmussen IA, Shade J, Sohn SM, Tadesse M, Tashi S, Thatcher A, Uddin N, Fragstein P, Wibe A, Wivstad M, Wenliang W, Zanolli R. 2017. Organic agriculture 3.0 is innovation with research. **Organic Agric.** 7 (3): 169-197.

Løes AK, Pommeresche R, Khalil R 2017. Effects of marble application to manure and anaerobic digestates. NORSØK report Vol. 2 (5) <https://orgprints.org/32037>

2016:

Løes AK, Bünemann E, Cooper J, Hörtenhuber S, Magid J, Oberson A, Möller K 2016. Nutrient supply to organic agriculture as governed by EU regulations and standards in six European countries. **Organic Agric.** 7: 395–418, doi 10.1007/s13165-016-0165-3

Løes AK 2016. What does the organic sector think about different P fertilizers? NORSØK report Vol. 1 (3), <https://orgprints.org/30368>

Risku-Norja H, Løes AK 2016. Organic food in food policy and in public catering: lessons learned from Finland. **Organic Agric.** 7(2): 111-124. doi 10.1007/s13165-016-0148-4

Papers published in peer-reviewed journals before 2016:

Johansen TJ, Thomsen MG, Løes AK, Riley H 2015. Root Development in Potato and Carrot Crops – Influences of Soil Compaction. **Acta Agric. Scand. Sect. B Pl Soil Sci** 65 (2): 182-192.

Pommeresche R, Løes AK 2014. Diversity and density of Collembola in a grass-clover ley in Northwestern Norway. **Norw. J. Entomol.** 61: 165-179.

Koesling, M., Løes, A.-K., Flaten, O., Kristensen, N.H. & Weinreich, M. 2012. Farmers' reasons for deregistering from organic farming. **Organic Agric.** 2: 103–116.

Løes, AK, Eltun R, Sjursen H, Henriksen TM 2011. Repeated use of green manure catch crops in organic cereal production – grain yields and nitrogen supply. **Acta Agric. Scand. Sect. B Pl Soil Sci.** 61: 164-175.

Ward A, Løes AK 2011. The potential of fish and fish oil waste for bioenergy generation: Norway and beyond. **Biofuels** 2(4): 375–387.

Løes AK, Nölting B 2011. Increasing organic consumption by school meals – lessons learned in the iPOP project. **Organic Agric.** 1: 91-110.

Flaten O, Lien G, Koesling M, Løes AK 2010. Norwegian farmers ceasing certified organic production: Characteristics and reasons. **J. Environ. Man.** 91: 2717-2726.

Pommeresche R, Løes AK 2009. Relations between Agronomic Practice and Earthworms in Norwegian Arable Soils. **Dynamic Soil Dynamic Plants (Special Issue 2)**, p. 129-142.

Løes AK, Gahoonia TS 2004. Genetic variation in specific root length in Scandinavian wheat and barley accessions. **Euphytica** 137: 243-249.

Riley H, Løes AK, Hansen S, Dragland S. 2003. Yield responses and nutrient utilization with the use of chopped grass and clover material as surface mulches in an organic vegetable growing system. *Biol. Agric. Hort.* 21: 63-90.

Løes AK, Øgaard 2003. Concentrations of soil potassium after long-term organic dairy production. *Int. J. Sust. Agric.* 1: 14-29.

Øgaard AF, Krogstad T, Løes AK 2002. Potassium uptake by grass from a clay and a silt soil in relation to soil tests. *Acta Agric. Scand. Sect. B, Soil Pl Sci* 51: 97-105.

Watson CA, Bengtsson H, Ebbesvik M, Løes AK, Myrbeck Å, Salomon E, Schroder J, Stockdale EA 2002. A review of farm-scale nutrient budgets for organic farms as a tool for management of soil fertility. *Soil Use Manag* 18 supplement, Soil fertility in organically managed soils, p. 264-273.

Løes AK, Øgaard AF 2001. Long-term changes in extractable soil phosphorus (P) in organic dairy farming systems. *Plant and Soil* 237: 321-332.

Løes AK, Øgaard AF 1997. Changes in the nutrient content of agricultural soil by conversion to ecological farming, compared to clay content and farm nutrient budgets. *Acta Agric. Scand. Sect. B, Soil Pl Sci* 47: 201-214.

Other relevant publications in English 2004-2016:

Ebbesvik M, Løes AK 2013. Long-term changes in soil nutrients and grass/clover yields on Tingvoll farm. In: Løes AK, Askegaard M, et al. (Eds.) *Organic farming systems as a driver for change*, NJF Report, no. 9 (3), pp. 119-120. <https://orgprints.org/id/eprint/24551/>

Selected publications in Norwegian since 2004:

Hansdotter S, Henriksen B, Meen E, Stensrud AF, Torp T, Løes AK 2024. Sjøkonservert krabbeskall: Test av kalkvirkning og plantestyrkende effekt. *NORSØK report vol. 9 nr. 10*. NORSØK, Tingvoll.

Løes AK, Almås Å, Olesen I 2024. Ny giv for gjødsling med tang og tare? *Bonde og småbruker* (1), januar 2024, s. 28.

Løes AK, Cabell J, Tveteraas SL 2024. Marine restråstoff til gjødsel? *Norsk sjømat* (1), januar 2024, s. 40-42.

McKinnon K, Løes AK, Synnes OM, Kvalsund E 2022. Ullpellets som gjødsel. *NORSØK Rapport*, no. 6, Vol 7. NORSØK, Tingvoll

Remme J, Løes AK 2022. Gammel tradisjon kan gi nytt håp og nye verdier. Om fiskebein til gjødsel. *Sunnmørsposten*, 28. april 2022, s. 24-25

Løes AK, Morken J 2021. Fjærfegjødsel i Norge. Håndtering og gassutslipp ved lagring. *NORSØK rapport Vol. 6 Nr. 3*, 2021, 34 s. orgprints.org/id/eprint/39572/

Thomsen MG, Seljåsen R, Espelien HG, Volovik Andrii, Sandell E, Bysveen K, Rittl Tatiana, Løes AK. Plantehakk som jorddekke i økologiske radvekster. *NIBIO rapport vol. 10 no. 102*.

McKinnon K, Løes AK, Almvik M 2021. Gjødsel med rester av herbicid: Effekt av klopuralid på oppsplanter. *NORSØK rapport Vol. 6 Nr. 6*, 2021, 44 s. orgprints.org/id/eprint/40065/

McKinnon K, Løes AK, Killian K 2021. Insektmøkk som gjødsel - en test på Undeland gård. *Gartneryrket* 119 (5) s 30-35. orgprints.org/id/eprint/40068/

Wibe A, Rittl T, Løes AK, Bakken I, Karlsen B 2021. Ozonholdig vann mot tørråte i potet. *NORSØK rapport vol. 6 Nr. 5*, 2021, 28 s. orgprints.org/id/eprint/39980/

Løes AK, Bach O, Bakken I, Grønmyr F, Møllerhagen PJ, Aarak K 2020. Ny giv for midtnorsk øko-potet med tidlige sorter og god agrobiologi? *NORSØK rapport Vol. 5 Nr. 13*, 2020, 49 s.

Løes AK, Bergslid IK, Hareide NR, Kjerstad M, Midtbø LK, Friis Pedersen S, Sæter L 2020. Restråstoff i blå og grønne verdikjeder i Møre og Romsdal – status og mulige bruksområder innen mat, fôr og gjødsel. *NORSØK rapport Vol. 5 Nr. 12*, 2020, 97 s.

Løes AK, Almås A, Bernhoft A 2020. Stor satsing på tare – men hva med restene? *Innlegg i Nationen* 16.7.2020, s 18. orgprints.org/id/eprint/39154/

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