

Publication list of Annemieke Gärdenäs (June 2017)

(for Web of Science include A. or A. I. or Annemieke Gärdenäs as well as A. Reurslag)

Pre-reviewed publications in international scientific journals

1. **Gärdenäs, A.I.**, S.L. Berglund, S.B. Bengtsson, K. Rosén. 2017. The grain storage of wet-deposited caesium and strontium by spring wheat — A modelling study based on a field experiment. *Science of total Environment* 574:1313–1325. doi: [10.1016/j.scitotenv.2016.08.036](https://doi.org/10.1016/j.scitotenv.2016.08.036).
2. Rappe George, M.O., L.J. Hansson, E. Ring, P.E. Jansson, **A.I. Gärdenäs**. 2017. Nitrogen leaching following clear-cutting and soil scarification at a Scots pine site -a modelling study of a fertilization experiment. *Forest Ecology & Management* 385:281–294. doi: [10.1016/j.foreco.2016.11.006](https://doi.org/10.1016/j.foreco.2016.11.006).
3. Mjöfors, K., M. Strömgren, H-Ö Nohrstedt, M-B. Johansson, **A.I. Gärdenäs**, 2017. Indications that Site Preparation Increases Forest Ecosystems Carbon Stocks in the Long-Term Scandinavian Journal of Forest Research, 1-9. doi.org/10.1080/02827581.2017.1293152
4. Choma M., M.O. Rappe George, J. Bárta, P. Čapek, E. Kaštovská, **A.I. Gärdenäs**, H. Šantrůčková, 2017. Recovery of ectomycorrhizal community from long-term nitrogen addition takes >23 years. *Fungal Ecology* doi.org/10.1016/j.funeco.2016.10.002.
5. Rappe George, M.O., M. Choma, P. Čapek, G. Börjesson, E. Kaštovská, H. Šantrůčková, **A.I. Gärdenäs** 2017. Effects of long-term nitrogen addition and deposition on microbial variables in the organic horizon of Norway spruce forest soils. *Soil Biology and biogeochemistry*, in revision.
6. Hansson, L.J., J. Koestel, E. Ring, **A.I. Gärdenäs**. 2017. Soil physical changes caused by off-road traffic on forest clear-cuts: X-ray and laboratory analysis. *Scandinavian Journal of Forest Research*, dx.doi.org/10.1080/02827581.2017.1339121.
7. Mjöfors, K., M. Strömgren, H-Ö. Nohrstedt, **A.I. Gärdenäs**. 2015. Impact of site-preparation on soil-surface CO₂ flux and litter decomposition in a clear-cut in Sweden. *Silva Fennica* 49, id 1403. doi: org/10.14214/sf.1403.
8. Bengtsson, S.B., **A.I. Gärdenäs**, J. Eriksson, M. Vinichuk, K. Rosén. 2014. Interception and retention of wet-deposition radiocaesium and radiostrontium on a ley mixture of grass and clover. *Science of the Total Environment* 497-498:412-419. doi: [10.1016/j.scitotenv.2014.07.099](https://doi.org/10.1016/j.scitotenv.2014.07.099).
9. Gebrehiwot, G.S., W. Bewket, **A.I. Gärdenäs**, K. Bishop. 2014. Forest cover change over four decades in the Blue Nile Basin, Ethiopia: comparison of three watersheds. *Regional Environmental Change* 14:253-266. doi: [10.1007/s10113-013-0483-x](https://doi.org/10.1007/s10113-013-0483-x).
10. Gebrehiwot, G.S., **A.I. Gärdenäs**, W. Bewket, J. Seibert, U. Ilstedt, K. Bishop. 2014. The long-term hydrology of East Africa's water tower: Statistical change detection in the watersheds of the Abbay Basin. *Regional Environmental Change* 14, 321-331. doi: [10.1007/s10113-013-0491-x](https://doi.org/10.1007/s10113-013-0491-x)
11. Bengtsson, S.B., J. Eriksson, **A.I. Gärdenäs**, M. Vinichuk, K. Rosén. 2013. Accumulation of wet-deposited radiocaesium and radiostrontium by spring oilseed rape (*Brássica napus* L.) and spring wheat (*Triticum aestívum* L.). *Environmental Pollution* 182:335-342. doi.org/10.1016/j.envpol.2013.07.035
12. Mellander, P-E., S.G. Gebrehiwot, **A.I. Gärdenäs**, W. Bewket, K. Bishop. 2013. Summer Rains and Dry Seasons in the Upper Blue Nile Basin: half a century of past and future spatiotemporal patterns. *PLoS ONE* 8(7): e68461. doi: [10.1371/journal.pone.0068461](https://doi.org/10.1371/journal.pone.0068461).
13. Gebrehiwot, G.S., J. Seibert, **A.I. Gärdenäs**, P-E. Mellander, K. Bishop. 2013. Hydrological change detection using modeling: Half a century of runoff from four rivers in the Blue Nile Basin. *Water Resources Research* 49, 3842–3851 doi: [10.1002/wrcr.20319](https://doi.org/10.1002/wrcr.20319).
14. Ortiz, C., J. Liski, **A.I. Gärdenäs**, A. Lehtonen, M. Lundblad, J. Stendahl, G.I. Ågren, E. Karlton. 2013. Soil organic carbon stock changes in Swedish forest soils – A comparison of uncertainties

and their sources through a national inventory and two simulation models. *Ecological Modelling* 251:221–231. doi.org/10.1016/j.ecolmodel.2012.12.017

15. Rappe-George, M.O., **A.I. Gärdenäs**, D. Berggren Kleja. 2013. The impact of four decades of annual nitrogen addition on dissolved organic matter in a boreal forest soil. *Biogeosciences Special Issue: Nitrogen and global change. Biogeosciences* 10:1365–1377, [doi:10.5194/bg-10-1365-2013](https://doi.org/10.5194/bg-10-1365-2013).
16. Bengtsson, S.B., J. Eriksson, **A.I. Gärdenäs**, K. Rosén. 2012. Influence of development stage of spring oilseed rape and spring wheat on interception of wet-deposited radiocaesium and radiostrontium. *Atmospheric Environment* 60:227–233. [doi: 10.1016/j.atmosenv.2012.06.062](https://doi.org/10.1016/j.atmosenv.2012.06.062)
17. Karhu, K., **A.I. Gärdenäs**, J. Heikkinen, P. Vanhala, J. Liski. 2012. Carbon stock of agricultural soil and organic amendments - comparison of model-simulations to measurements. *Geoderma* 189–190:606–616. doi: [10.1016/j.geoderma.2012.06.007](https://doi.org/10.1016/j.geoderma.2012.06.007).
18. **Gärdenäs, A.I.**, G.I. Ågren, J.A. Bird, M. Clarholm, S. Hallin, P. Ineson, T. Kätterer, H. Knicker, S.I. Nilsson, T. Näsholm, S. Ogle, K. Paustian, T. Persson, J. Stendahl. 2011. Knowledge gaps in soil carbon and nitrogen interactions - From molecular to global scale. *Soil Biology & Biochemistry* 43:702–717. [doi:10.1016/j.soilbio.2010.04.006](https://doi.org/10.1016/j.soilbio.2010.04.006)
19. **Gärdenäs, A.I.**, G.I. Ågren, S.I. Nilsson. 2011. Knowledge gaps in soil C and N interactions. Preface. Special section in *Soil Biology and Biochemistry* 43:701. doi.org/10.1016/j.soilbio.2011.01.025
20. Gebrehiwot, S.G., U. Ilstedt, **A.I. Gärdenäs**, K. Bishop. 2011. Hydrological characterization of watersheds in the Blue Nile Basin. *Hydrology & Earth System Sciences* 15:11–20. [doi:10.5194/hess-15-11-2011](https://doi.org/10.5194/hess-15-11-2011)
21. Ortiz, C.A., E. Karlton, J. Stendahl, **A.I. Gärdenäs**, G.I. Ågren. 2011. Modelling soil carbon build-up in Swedish coniferous forest soils - an uncertainty analysis of parameters and model estimates. *Ecol. Modelling* 222:3020–3032. doi.org/10.1016/j.ecolmodel.2011.05.034
22. Peltoniemi, M., E. Thürig, S. Ogle, T. Palosuo, M. Shrumpf, Th. Wützler, K. Butterbach-Bahl, O. Chertov, A. Komarov, A. Mikhailov, **A. Gärdenäs**, Ch. Perry, J. Liski, P. Smith, R. Mäkipää. 2007. Models in country scale carbon accounting of forest soils. *Silva Fennica* 41, id 290. [doi: 10.14214/sf.290](https://doi.org/10.14214/sf.290)
23. Stenemo, F., A.M.L. Lindahl, **A. Gärdenäs**, N. Jarvis. 2007. Meta-modeling of the pesticide fate model MACRO for groundwater exposure assessments using artificial neural networks. *J. of Contaminant Hydrology* 93: 270–283. [doi:10.1016/j.jconhyd.2007.03.003](https://doi.org/10.1016/j.jconhyd.2007.03.003)
24. **Gärdenäs, A.I.**, J. Šimunek, N. Jarvis, M.Th. Van Genuchten. 2006. Two-dimensional modelling of preferential water flow and pesticide transport from a tile-drained field. *J. of Hydrology* 329:647–660. [doi:10.1016/j.jhydrol.2006.03.021](https://doi.org/10.1016/j.jhydrol.2006.03.021)
25. **Gärdenäs, A.I.**, J.W. Hopmans, B.R. Hanson, J. Šimunek. 2005. Two-dimensional modeling of nitrate leaching for various fertigation scenarios under micro-irrigation. *Agricultural Water Management* 74:219–242. [doi: 10.1016/j.agwat.2004.11.011](https://doi.org/10.1016/j.agwat.2004.11.011)
26. Lindahl, A., J. Kreuger, J. Stenström, **A. Gärdenäs**, A. Alavi, S. Roulier, N. Jarvis. 2005. Stochastic Modelling of Diffuse Pesticide Losses from a Small Agricultural Catchment. *J. of Environmental Quality*. 34:1174–1185. [doi:10.2134/jeq2004.0044](https://doi.org/10.2134/jeq2004.0044)
27. Šimunek, J., Van Genuchten, M Th., Jarvis, N. & **Gärdenäs A.** 2003. Review and comparison of models for describing non-equilibrium and preferential flow and transport in the vadose zone. *J. Hydrol.* 272, 14–35. [doi: 10.1016/S0022-1694\(02\)00252-4](https://doi.org/10.1016/S0022-1694(02)00252-4)
28. **Gärdenäs A. I.** 2000. Soil respiration fluxes measured along a hydrological transect in a Norway spruce stand in south Sweden (Skogaby). *Plant & Soil* 221, 273–280. doi: [10.1023/A:1004765118967](https://doi.org/10.1023/A:1004765118967)
29. **Gärdenäs A.** 1998. Soil organic matter in European forest floor in relation to stand characteristics and environmental factors. *Scandinavian J. of Forest Research* 13, 274–283. [doi: 10.1080/02827589809382985](https://doi.org/10.1080/02827589809382985)

30. Iritz, Z., Lindroth, A. & **A. Gärdenäs**, 1997. Open ventilated chamber system for measurements of H₂O and CO₂ fluxes from soil surface. *Soil Technology* 10, 169-184. doi: [10.1016/S0933-3630\(96\)00136-5](https://doi.org/10.1016/S0933-3630(96)00136-5)
31. **Gärdenäs A.** & Jansson, P.-E. 1995. Simulated water balance of Scots Pine for different climate change scenarios. *Journal of Hydrology* 166, 107 – 125. doi: [10.1016/0022-1694\(94\)02594-2](https://doi.org/10.1016/0022-1694(94)02594-2)
32. Eckersten, H., **Gärdenäs A.** and Jansson, P.-E. 1995. Modelling seasonal nitrogen, carbon, water and heat dynamics of the Solling spruce stand. *Ecological Modelling* 83, 119-129. doi: [10.1016/0304-3800\(95\)00091-9](https://doi.org/10.1016/0304-3800(95)00091-9)
33. Berg, B., Calvo de Anta, R., Escudero, A., **Gärdenäs A.**, Johansson, M.-B., Laskowski, R., Madeira, M., Mälkönen, E., McClaugherty, C., Meentemeyer, V. & Virzo De Santo, A. 1995. The chemical composition of newly shed needle litter of Scots pine and some other pine species in a climatic transect. Longterm decomposition in a Scots pine forest x. *Canadian J. of Botany* 73, 1423-1435. doi: [10.1139/b95-155](https://doi.org/10.1139/b95-155)
34. Jansson, P.-E., **A. Reurslag**. 1992. Climatic influence on litter decomposition: methods and some results of a NW-European transect. In: Teller, A., Mathy, P. & Jefferes, J.N.R. Responses of Forest Ecosystems to Environmental Changes. 351-358. doi: [10.1007/978-94-011-2866-7_31](https://doi.org/10.1007/978-94-011-2866-7_31).

Other publications

Doctoral thesis:

Gärdenäs A. I. 1998. Soil organic matter in forest soils - effects of climate and water balance. Doctoral thesis. Acta Universitatis Agriculturae Sueciae. Agraria 85. ISBN 91-576-5530-8.

Reports

Eckersten H., Djurle A., Albihn A., Andersson L., Båge R., de Toro A., **Gärdenäs A.I.**, Hultgren J., Kvarnheden A., Lewan E., Nkurunziza L., Rosén K., Spörndly R., Vågsholm I., von Rosen D., Yuen J., Magnusson U. 2015 Future risks and threats against Swedish cereal and milk production; an analysis of need of research for risk assessment (*In Swedish; Framtida risker och hot mot svensk spannmåls- respektive mjölkproduktion; en analys av forskningsbehov för att bedöma risker*) 124 pp. Especially Chapter 8.4.1. Radioactive Deposition Cereals by Annemieke Gärdenäs, Klas Rosén, Annika Djurle, Henrik Eckersten pp. 52-62.

Munthe, J. et al. 2014, Climate change and environmental objectives, Report to Swedish Environmental Agency for 2015 evaluation of environmental objectives. (In Swedish, Klimatförändringar och miljömålen). 196 pp. Available at <http://www.cleoresearch.se/publications> Especially **Gärdenäs A.**, Rappe George M., Temnerud J., Bishop K., Lindström G., Pers Ch., Strömqvist J., Arheimer B., Moldan F., Jutteström S., Hytteborn J. Chapter 5.1 and 5.2 Leaching processes at the interface terrestrial and aquatic systems pp 75-81.

Hansson L., Rappe George M. **Gärdenäs A.I.** 2014. Site preparation in Swedish forestry present and in the future with focus on environmental consequences. Markberedning i svenskt skogsbruk nu och i framtiden med fokus på miljökonsekvenser litteraturstudie och expertintervjuer med Skogsstyrelsen och Skogforsk CLEO-rapport D1.2.2 26 pp.

Smith K, G Smith, C Vincke and Y Thiry (Editors) 2011. BIOPROTA Key Issues in Biosphere Aspects of Assessment of the Long term Impact of Contaminant Releases Associated with Radioactive Waste Management. International Workshop on the Functioning of the Geosphere-Biosphere Interface Zone. Workshop report 50 pp.

Gärdenäs, A., Eckersten, H., Reinlert, A. Gustafsson, D, Jansson P.-E., Ekström P.-A., Avila R. Greger M., 2009. Modelling long-term accumulation of radionuclides in the biosphere originating from continuous groundwater contamination – a sensitivity analysis. SKB-report TR-09-24.

Nordin, A., Bergström, A-K., Granberg, G., Grip, H., Gustafsson, D., **Gärdenäs, A.**, Hyvönen-Olsson, R., Jansson, P-E., Laudon, H., Nilsson, M. B., Svensson, M., Öquist, M. 2009. Effects of intensified forestry on soil, water and greenhouse gases in forested landscape. Facts for the MINT-inquiry. (*In Swedish*). Effekter av ett intensivare skogsbruk på skogslandskapets mark, vatten och växthusgaser. Faktaunderlag till MINT-utredningen. SLU, Rapport. ISBN 978-91-86197-46-9. 84 pp.

Ortiz C., Lundblad M., Liski J., Stendahl J., Karlton E., Lethonen A., **Gärdenäs A.** 2009. Measurements and models – a comparison of quantification methods for SOC changes in forest soils SMED Report vol. 31, 30 pp.

Gärdenäs, A. Jansson, P-E. & Karlberg, L. 2006. A model of accumulation of radionuclides in biosphere originating from groundwater contamination. SKB report. R-06-47

Gustafsson D. Jansson P-E, **Gärdenäs A.** Eckersten H. 2006. Simulated carbon and water processes of forest ecosystems in Forsmark and Simpevarp during a 100-year period. SKB-report TR-06-45. 51 p.

Gärdenäs, A. (Ed.) 2006. Environmental physics – exercise compendium. (*In Swedish*: Biogeofysik - övningskompendium) Dep. of Soil Sciences. 48 pp.

Eckersten, H., **Gärdenäs, A.** & Lewan, E. (Eds.) 2004. Environmental physics – an introduction (*In Swedish*: Biogeofysik – en introduktion). Emergo 2004:3. 143 pages. ISBN: 91-576-6591-5. Including co-authoring chapters Introduction, Water transport in soil-plant-atmosphere systems and Modeling water fluxes in soil-plant-atmosphere systems.

Hanson, B., Hopmans, J.W., Simunek, J., **Gärdenäs, A.** 2004. Crop Nitrate Availability and Nitrate Leaching under Micro-Irrigation for Different Fertigation Strategies. Dep. LAWR, University of California, Davis, CA 95616, 141 p.

Jarvis, N. Hanze, K. Larsbo, M. Stenemo, F. Persson, L. Roulier, S. Alavi, G. **Gärdenäs, A.** Rönngren, J. 2003. Scenario development and parameterization for pesticide exposure assessments for Swedish groundwater. Emergo 2003:4, 26 p. ISBN: 91-576-6588-5.

Gärdenäs, A. Eckersten, H. & Lillemägi, M. 2003. Modeling long-term effects of N fertilization and N deposition on the N balance of forest stands in Sweden. 30 pages. Emergo 2003:3 Division of Environmental physics, Dept. of Soil Sciences, SLU

Eckersten, H., **Gärdenäs, A.** & Lewan, E. (Eds.) 2003. Environmental physics – an introduction (*In Swedish*: Biogeofysik – en introduktion). Emergo 2003:5. 143 pages. ISBN: 91-576-6591-5. Including co-authoring chapters Introduction, Water transport in soil-plant-atmosphere systems and Modeling water fluxes in soil-plant-atmosphere systems.

Jarvis, N. et al. 2003. Soil and environmental physics- Study questions, calculation examples, exercises and mini-projects, Environmental Physics, Dept. of Soil sciences. 47 pp.

Holman, I.P & Hollis, J.M. (Eds). 2001 CAMSCALE: upscaling, predictive models and catchment water quality. Final report. ENV4-CT97-0439. Soil Survey and Land Research Centre. Cranfield Univ. p 12-18.

Gärdenäs, A. & Jansson, P-E. 1999. Carbon cycling in forest soils in relation to climate, hydrology and nutrient status. Executive report (Dnr 802-385-95-Ff). Dep. of Soil Scs. SLU. 16 p.

Reurslag, A. and Berg, B. 1993. Literature study of amounts and chemical composition of litterfall and amounts of soil organic matter. (*In Swedish*: Litteraturstudie rörande mängd och kemisk sammansättning av fallförna samt mängd organiskt material i skogsmark). Vattenfallrapportserien Bioenergi 1993:2, 100 p.

Berg, B., Jansson, P-E., Olofsson, J. and **Reurslag, A.**, 1991. Climatic influence on decomposition of Scots pine needle litter along a NW European transect. Swedish University of Agricultural Sciences, Department of Ecology and Environmental Sciences report nr. 46, 43 pp.

Berg, B., H. Booltink, A. Breymeyer, A. Ewertsson, A. Gallardo, B. Holm, M-B Johansson, S. Koivuvoja, V. Meentemeyer, P. Nyman, J. Olofsson, A-S. Petterson, **A. Reurslag**, H. Staaf, I. Staaf

and L. Uba. 1991. Data on needle litter decomposition and soil climate as well as site characteristics for some coniferous forest sites. Data on litter decomposition. 2nd ed. Swedish University of Agricultural Sciences, Department of Ecology and Environmental Sciences.
part A: Site characteristics, report nr. 41. and
part B: Decomposition data, report nr 42.

Reurslag, A. Zuidema, G. & de Vries., W., 1990. Indirect effects of atmospheric deposition on vitality of forests. Part 3. Simulated water balance of eight Douglas fir stands. (*in Dutch*) Staring Centrum rapport nr. 76., 100 p.

Book Chapters

Gärdenäs A.I., Jansson P-E., Karlton E., Klemendtsson L., Lehtonen A., Ortíz C., Palosuo T., Svensson M. 2011. Estimating soil carbon stock changes by process-based models and soil inventories - uncertainties and complementarities. In Jandl R., Olsson M., Rodeghiero M. (Eds). Soil Carbon in Sensitive European Ecosystems: from science to land management' Wiley-Blackwell 239-266.

Eckersten, H., **Gärdenäs, A.** et al. . 2004. Nitrogen and Carbon processes – above ground processes. In Jansson P.-E. & Karlberg L. (Eds) Coupled heat and mass transfer model for soil-plant-atmosphere systems. Royal Institute of Technology, Dept of Civil and Environmental Engineering, Stockholm, pp 239-298, www2.lwr.kth.se/Vara%20Datorprogram/CoupModel/coupmanual.pdf

Eckersten, H., **Gärdenäs, A.** et al.. 2004. Nitrogen and Carbon processes – below ground processes. In Jansson P.-E. & Karlberg L. (Eds) Coupled heat and mass transfer model for soil-plant-atmosphere systems. Royal Institute of Technology, Dept of Civil and Environmental Engineering, Stockholm, pp 299-366,

Jansson P-E., Cienciala E., **Gärdenäs A.**...et al.. 2004. Plant water Processes. In Jansson P.-E. & Karlberg L. (Eds) Coupled heat and mass transfer model for soil-plant-atmosphere systems. Royal Institute of Technology, Dept of Civil and Environmental Engineering, Stockholm, pp 115-182.

Verburg, P.S.J. **Gärdenäs, A.**, Ent, M. & Nieuwenhuis, R. 1998. The influence of temperature on C mineralization is depth dependent: Evidence from a boreal forest. In Verburg, P.S.J. Organic Matter Dynamics in a Forest Soil as affected by Climate Change. PhD-thesis. Wageningen Agricultural University, The Netherlands pp. 53-70.

Jansson, P-E. & **A. Reurslag.** 1991. Climatic influence on litter decomposition: methods and some results of a NW-European transect. In: Teller, A., Mathy, P. & Jefferes, J.N.R. Responses of Forest Ecosystems to Environmental Changes. Symposium proceedings First European Symposium on Terrestrial Ecosystems: Forests and Woodlands, Florence 20-24 maj 1991. pp. 351-358

Personally developed generally accessible computer programs:

Major contributions to CoupModel (Jansson & Karlberg 2010) in chapters (<http://www2.lwr.kth.se/Vara%20Datorprogram/CoupModel/coupmanual.pdf>):

- Plant water Processes.
- Nitrogen and Carbon processes – above ground processes.
- Nitrogen and Carbon processes – below ground processes.
- Salt processes

Tracey, a model for fluxes of trace elements in soil-plant system described in **Gärdenäs, A.**, Eckersten, H., Reinlert, A. Gustafsson, D, Jansson P-E., Ekström P-A., Avila R. Greger M., 2009. Modelling long-term accumulation of radionuclides in the biosphere originating from continuous groundwater contamination – a sensitivity analysis. SKB-report TR-09-24

Gärdenäs, A. Jansson. P-E. & Karlberg, L. 2006. A model of accumulation of radionuclides in biosphere originating from groundwater contamination. SKB report. R-06-47

Proceedings and Editorship

Hansson L. **Gärdenäs A.I.** (Eds.) 2014. Abstracts Workshop Driving damage in forestry – consequences for production and environment. In Swedish: 'Körskador i skogsbruket – konsekvenser för produktion och miljö'

Kahlert, M & **Gärdenäs, A.** (Eds.) 2011. Ecosystem services in soil and water research. Focus on Soils and water symposium. 7-10 June 2011 Uppsala, Sweden. Programme and abstracts. 104 pp.

Gärdenäs, A.I., Ågren, G.I., Nilsson, S.I. (Eds.) 2011. Knowledge gaps in soil C and N interactions'. Special section in Soil Biology and Biochemistry 43, 701-725.

Gärdenäs, A., Stendahl, J., (Eds.) 2008. Focus on Soils workshop 'Knowledge gaps in soil C and N interactions'. Dept. of Soil & Environment, Swedish University of Agricultural Sciences, 40 pp. ISBN: 978-91-85911-52-3

Gärdenäs, A. & Karlton, E. (Eds.) 2005. Focus on Soils Symposium 'Managing soils for the future'. Programme and Abstracts. Dept. of forest soils. Swedish University of Agricultural Sciences. ISBN 91-576-6860-4.

Gärdenäs, A. (Ed.) 1999. Workshop proceedings 'Scale and variability issues in the soil-hydrological system' - the 25-27th of August 1999 at Wiks Castle, Sweden. Swedish University of Agricultural Sciences, Dep. of Soil Sciences, Division of Agricultural Hydrotechnics, Communications 99:3, 57 pp. (ISRN SLU-HY-AVDM--99/3--SE).

Oral and poster presentations (selection of 2014-2010):

Gärdenäs A, Eckersten H, Reinert A, Gustafsson D, Jansson P-E, Ekström PA, Greger M. 2014. Modelling accumulation of radionuclides in terrestrial ecosystems originating from a long-term groundwater contamination. the International Conference on Radioecology and Environmental Radioactivity, Barcelona 7-12 sept. 2014, oral

Gärdenäs, A.I., Berglund S. L., Bengtsson, S. B. Rosen, K. 2014. The Uptake and Storage of Caesium and Strontium by Spring Wheat – A Modelling Study Based on a Field Experiment. the International Conference on Radioecology and Environmental Radioactivity, Barcelona 7-12 sept. 2014, poster.

Martin Rappe George and **Annemieke I. Gärdenäs 2014**. CoupModel – Effekter i skog, mark och vatten. CLEO avnärmare seminarie - Forskningsresultat som underlag till utvärderingen av de nationella miljömålen -hur påverkar klimatförändringen möjligheten att uppnå våra miljömål? 8 Sept. 2014

Kristina E.I. Mjöfors, Monika Strömberg and **Annemieke I. Gärdenäs**. 2014. Soil carbon stocks were not altered by site preparation method-results from three Swedish long-term site preparation experiments "8th International Forest Vegetation Management Conference, Halmstad, Sweden, August 25-28th 2014 (oral presentation)

Hansson, L. Koestel J. Ring.E. **Gärdenäs, A.** 2014. Soil physical changes caused by driving with heavy vehicles on boreal regeneration areas. Oral presentation at the Nordic Baltic Conference OSCAR 14, "Solutions for Sustainable Forestry", 25-27 June

Choma Michal, Čapek Petr, **Gärdenäs Annemieke I.**, Kaštovská Eva, Rappe-George Martin and Šantrůčková Hana 2014. Minor answer response of soil microbial biomass and activity to changes in soil chemical properties caused by nitrogen deposition of in a Norway spruce forest ecosystems to changes in soil chemical properties caused by nitrogen deposition. Biogeomon 13-17 July Bayreuth, Germany.

Gärdenäs, A.I., Berglund S. L., Bengtsson, S. B. Rosen, K. 2013. The Uptake and Storage of Caesium and Strontium by Spring Wheat – A Modelling Study Based on a Field Experiment. AGU, San Francisco, USA. poster.

Gärdenäs, A., Ågren, G.I., Bird, J.A., Clarholm, M., Hallin, S., Ineson, P., Kätterer, T., Knicker, H., Nilsson, I., Näsholm, T., Ogle, S., Paustian, K., Persson, T., Stendahl, J. 2012. Knowledge gaps in soil carbon and nitrogen interactions - From molecular to global scale. Greenhouse gas management in European Land Use system, 16-18 September Antwerp, Belgium 2013 (oral).

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