Publications by Göran Nordlander

Articles in international peer-reviewed journals

E = ecology, behaviour, and pest management of the pine weevil *Hylobius abietis*
C = conservation biology and dispersal of insects living in wood-decaying fungi
S = systematics, phylogeny, biogeography and ecology of Cynipoidea (Hymenoptera)
O = other subject areas

***** = articles where the last author name identifies the "senior author"
(otherwise the order of authors is primarily determined by magnitude of contribution)

E* Azeem, M., Iqbal, Z., Emami, S.N., Nordlander, G., Nordenhem, H., Mozūratis, R., El-Seedi, H.R. & Borg-Karlson, A.K. 2020. Chemical composition and antifeedant activity of some aromatic plants against pine weevil (*Hylobius abietis*). Annals of Applied Biology (published online 27 March 2020). https://doi.org/10.1111/aab.12586

E* Fedderwitz, F., Björklund, N., Anngren, R., Lindström, A. & Nordlander, G. 2020. Can methyl jasmonate treatment of conifer seedlings be used as a tool to control height growth in forest tree nurseries? New Forests 51: 379-394. https://doi.org/10.1007/s11056-019-09737-6

E* López-Villamor, A., Carreño, S., López-Goldar, X., Suárez-Vidal, E., Sampedro, L., Nordlander, G., Björklund, N. & Zas, R. 2019. Risk of damage by the pine weevil *Hylobius abietis* in southern Europe: Effects of silvicultural and landscape factors. Forest Ecology and Management 444: 290-298. https://doi.org/10.1016/j.foreco.2019.04.027

E* Unelius, C. R., Bohman, B. & Nordlander, G. 2018. Comparison of phenylacetates with benzoates and phenylpropanoates as antifeedants for the pine weevil, *Hylobius abietis*. Agricultural and Food Chemistry 66: 11797-11805. https://doi.org/10.1021/acs.jafc.8b03830

E* Puentes, A., Högberg, K.-A., Björklund, N., & Nordlander, G. 2018. Novel avenues for plant protection: Plant propagation by somatic embryogenesis enhances resistance to insect feeding Frontiers in Plant Science 9: 1553 (9 pp. + Appendix). https://doi.org/10.3389/fpls.2018.01553

E* Fedderwitz, F., Björklund, N., Ninkovic, V. & Nordlander, G. 2018. Does the pine weevil (*Hylobius abietis*) prefer conifer seedlings over other main food sources? Silva Fennica vol. 52(3): article id 9946 (9 pp.). https://doi.org/10.14214/sf.9946

S Forshage, M. & Nordlander, G. 2018. The identity of figitid parasitoids (Hymenoptera: Cynipoidea: Figitidae) of anthomyiid flies in conifer cones. European Journal of Entomology 115: 104-111. https://doi.org/10.14411/eje.2018.008

E Nordlander, G., Mason, E. G., Hjelm, K., Nordenhem H. & Hellqvist, C. 2017. Influence of climate and forest management on damage risk by the pine weevil *Hylobius abietis* in northern Sweden. Silva Fennica 51(5): article id 7751 (20 pp.). https://doi.org/10.14214/sf.7751

E* Zas, R., Björklund, N., Sampedro, L., Hellqvist, C., Karlsson, B., Jansson, S. & Nordlander, G. 2017. Genetic variation in resistance of Norway spruce seedlings to damage by the pine weevil *Hylobius abietis.* Tree Genetics and Genomes 13:111 (12 pp.). https://doi.org/10.1007/s11295-017-1193-1

E* Axelsson, K., Konstanzer, V., Rajarao, G. K., Terenius, O., Seriot, L., Nordenhem, H., Nordlander, G. & Borg-Karlson, A.-K. 2017. Antifeedants produced by bacteria associated with the gut of the pine weevil *Hylobius abietis*. Microbial Ecology 74: 177-184. http://dx.doi.org./10.1007/s00248-016-0915-5

E* Maňák, V., Björklund, N., Lenoir, L., & Nordlander, G. 2017. Testing associational resistance against pine weevils mediated by *Lasius* ants attending conifer seedlings. Journal of Applied Entomology 141: 411-416. http://dx.doi.org/10.1111/jen.12345

E Nordlander, G., Hellqvist, C. & Hjelm, K. 2017. Replanting conifer seedlings after pine weevil emigration in spring decreases feeding damage and seedling mortality. Scandinavian Journal of Forest Research 32: 60-67. http://dx.doi.org/10.1080/02827581.2016.1186220

E* Lundborg, L., Nordlander, G., Björklund, N., Nordenhem, H. & Borg-Karlson, A.-K. 2016. Methyl jasmonate induced monoterpenes in Scots pine and Norway spruce tissues affect pine weevil orientation. Journal of Chemical Ecology 42: 1237-1246. http://dx.doi.org./10.1007/s10886-016-0790-z

E* Lundborg, L., Fedderwitz, F., Björklund, N., Nordlander, G. & Borg-Karlson, A.-K. 2016. Induced defenses change the chemical composition of pine seedlings and influence meal properties of the pine weevil *Hylobius abietis.* Phytochemistry 130: 99-105. http://dx.doi.org/10.1016/j.phytochem.2016.06.002

E* Berasategui, A., Axelsson, K., Nordlander, G., Schmidt, A., Borg-Karlson, A.-K., Gershenzon, J., Terenius O. & Kaltenpoth, M. 2016. The gut microbiota of the pine weevil is similar across Europe and resembles that of other conifer-feeding beetles. Molecular Ecology 25: 4014-4031. http://dx.doi.org/10.1111/mec.13702

E* Maňák, V., Björklund, N., Lenoir, L., Knape, J. & Nordlander, G. 2016. Behavioural responses of pine weevils to non-consumptive interactions with red wood ants. Journal of Zoology 299: 10-16. http://onlinelibrary.wiley.com/doi/10.1111/jzo.12321/abstract

E* Fedderwitz, F., Nordlander, G., Ninkovic, V. & Björklund, N. 2016. Effects of jasmonate-induced resistance of conifer plants on the feeding behaviour of a bark-chewing insect, *Hylobius abietis*. Journal of Pest Science 89: 97-105. http://dx.doi.org/10.1007/s10340-015-0684-9

E* Azeem, M., Terenius, O., Rajarao, G. K., Nagahama, K., Nordenhem, H., Nordlander, G. & Borg-Karlson, A.-K. 2015. Chemodiversity and biodiversity of fungi associated with the pine weevil *Hylobius abietis*. Fungal Biology 119: 738-746. http://dx.doi.org/10.1016/j.funbio.2015.04.008

E* Fedderwitz, F., Björklund, N., Ninkovic, V. & Nordlander, G. 2015. The structure of feeding behavior in a phytophagous insect (*Hylobius abietis*). Entomologia Experimentalis et Applicata 155: 229-239. http://onlinelibrary.wiley.com/doi/10.1111/eea.12302/abstract

O Rosenberg, O., Nordlander, G. & Weslien, J. 2015. Effects of different insect species on seed quantity and quality in Norway spruce. Agricultural and Forest Entomology 17: 158-163. http://dx.doi.org/10.1111/afe.12091

E* Maňák, V., Björklund, N., Lenoir, L. & Nordlander, G. 2015.The effect of red wood ant abundance on feeding damage by the pine weevil *Hylobius abietis.* Agricultural and Forest Entomology 17: 57-63. http://dx.doi.org/10.1111/afe.12080

E* Azeem, M., Rajarao, G. K., Terenius, O., Nordlander, G., Nordenhem, H., Nagahama, K., Norin, E., & Borg-Karlson, A. K. 2015. A fungal metabolite masks the host plant odor for the pine weevil (*Hylobius abietis*). Fungal Ecology 13: 103-111. http://dx.doi.org/10.1016/j.funeco.2014.08.009

E* Terenius, O., Björklund, N., Jaenson, T. G. T. & Nordlander, G. 2014. Premature proposal of the pine weevil as a vector of a human pathogen. Journal of Clinical Microbiology 52: 4115. http://dx.doi.org/10.1128/JCM.02167-14

E* Wallertz, K., Nordenhem, H. & Nordlander, G. 2014. Damage by the pine weevil *Hylobius abietis* to seedlings of two native and five introduced tree species in Sweden. Silva Fennica 48(4): article id 1188, 14 pp. http://dx.doi.org/10.14214/sf.1188.

E* Fedderwitz, F., Björklund, N., Ninkovic, V. & Nordlander, G. 2014. Diel behaviour and time budget of the adult pine weevil, *Hylobius abietis.* Physiological Entomology 39: 103-110. http://dx.doi.org/10.1111/phen.12053

E* Zas, R., Björklund, N., Nordlander, G., Cendán, C., Hellqvist, C. & Sampedro, L. 2014. Exploiting jasmonate-induced responses for field protection of conifer seedlings against a major forest pest, *Hylobius abietis.* Forest Ecology and Management 313: 212-223. 10.1016/j.foreco.2013.11.014

S Forshage, M., Nordlander, G. & Buffington, M. L. 2013. Eucoilinae of North America: A revised catalog of genera and described species. Proceedings of the Entomological Society of Washington 115: 225-255. http://www.bioone.org/doi/abs/10.4289/0013-8797.115.3.225

O* Björkman, C., Lindelöw, Å., Eklund, K., Kyrk, S. Klapwijk, M. J., Fedderwitz, F. & Nordlander, G. 2013. A rare event – an isolated outbreak of the pine-tree lappet moth (*Dendrolimus pini*) in the Stockholm archipelago. Entomologisk Tidskrift 134: 1-9.

E* Azeem, M., Rajarao, G. K., Nordenhem, H., Nordlander, G. & Borg-Karlson, A. K. 2013. *Penicillium expansum* volatiles reduce pine weevil attraction to host plants. Journal of Chemical Ecology 39: 120-128. 10.1007/s10886-012-0232-5

E* Maňák, V., Nordenhem, H., Björklund, N., Lenoir, L. & Nordlander , G. 2013. Ants protect conifer seedlings from feeding damage by the pine weevil *Hylobius abietis.* Agricultural and Forest Entomology 15: 98-105. 10.1111/j.1461-9563.2012.00597.x

O* Baffoe, K. O., Dalin, P., Nordlander, G. & Stenberg J. A. 2012. Importance of temperature for the performance and biocontrol efficiency of the parasitoid *Perilitus brevicollis* (Hymenoptera: Braconidae) on *Salix*. BioControl 57: 611-618. 10.1007/s10526-012-9443-5

E Nordlander, G., Hellqvist, C., Johansson, K. & Nordenhem H. 2011. Regeneration of European boreal forests: Effectiveness of measures against seedling mortality caused by the pine weevil *Hylobius abietis*. Forest Ecology and Management 262: 2354-2363. 10.1016/j.foreco.2011.08.033

S Schick, K. N., Forshage, M. & Nordlander, G. 2011.The "false *Eucoila*" finally named; *Striatovertex* a new genus of Eucoilinae (Hymenoptera, Cynipoidea, Figitidae). Zootaxa 2811: 59-65. [Link]

E* Kännaste, A., Nordenhem, H., Nordlander, G. & Borg-Karlson, A.-K. 2009. Volatiles from a mite-infested spruce clone and their effects on pine weevil behavior. Journal of Chemical Ecology 35: 1262-1271. https://dx.doi.org/10.1007/s10886-009-9708-3

E Nordlander, G., Nordenhem, H. & Hellqvist, C. 2009. A flexible sand coating (Conniflex) for the protection of conifer seedlings against damage by the pine weevil, *Hylobius abietis*. Agricultural and Forest Entomology 11:91-100. http://dx.doi.org/10.1111/j.1461-9563.2008.00413.x

S Forshage, M. & Nordlander, G. 2008. Identification key to European genera of Eucoilinae (Hymenoptera, Cynipoidea, Figitidae). Insect Systematics and Evolution 39:341-359.

S* Forshage, M., Nordlander, G. & Ronquist, F. 2008. *Quasimodoana*, a new Holarctic genus of eucoiline wasps (Hymenoptera, Cynipoidea, Figitidae), with a phylogenetic analysis of related genera. Systematic Entomology 33: 301-318.

E* Bohman, B., Nordlander, G., Nordenhem, H., Sunnerheim, K., Borg-Karlson, A.-K., & Unelius, C. R. 2008. Structure–activity relationships of phenylpropanoids as antifeedants for the pine weevil *Hylobius abietis*. Journal of Chemical Ecology 34: 339-352.

E* Sunnerheim, K., Nordqvist, A., Nordlander, G., Borg-Karlson, A.-K., Unelius, C. R., Bohman, B., Nordenhem, H., Hellqvist, C. & Karlén, A. 2007. Quantitative structure–activity relationships of pine weevil antifeedants, a multivariate approach. Journal of Agricultural and Food Chemistry 55: 9365-9372.

S* Mitsui, H., Van Achterberg, K., Nordlander, G. & Kimura, M. T. 2007. Geographical distributions and host associations of larval parasitoids of frugivorous Drosophilidae in Japan. Journal of Natural History 41: 1731-1738.

S* Liu, Z., Ronquist, F. & Nordlander, G. 2007. The cynipoid genus *Paramblynotus*: revision, phylogeny and historical biogeography (Hymenoptera: Liopteridae). Bulletin of the American Museum of Natural History 304: 1-151.

E Wallertz, K., Nordlander, G. & Örlander, G. 2006. Feeding on roots in the humus layer by adult pine weevil, *Hylobius abietis*. Agricultural and Forest Entomology 8: 273-279.

E* Unelius, C. R., Nordlander, G., Nordenhem, H., Hellqvist, C., Legrand, S. & Borg-Karlson, A.-K. 2006. Structure–activity relationships of benzoic acid derivatives as antifeedants for the pine weevil, *Hylobius abietis*. Journal of Chemical Ecology 32: 2191-2203.

E* Borg-Karlson, A.-K., Nordlander, G., Mudalige, A., Nordenhem, H. & Unelius, C. R. 2006. Antifeedants in the feces of the pine weevil *Hylobius abietis*: Identification and biological activity. Journal of Chemical Ecology 32: 943-957.

E Petersson, M., Nordlander, G. & Örlander, G. 2006. Why vegetation increases pine weevil damage: Bridge or shelter? Forest Ecology and Management 225: 368-377.

C Jonsson, M. & Nordlander, G. 2006. Insect colonisation of fruiting bodies of the wood-decaying fungus *Fomitopsis pinicola* at different distances from an old-growth forest. Biodiversity and Conservation 15: 295-309.

E Björklund, N., Nordlander, G. & Bylund H. 2005. Olfactory and visual stimuli used in orientation to conifer seedlings by the pine weevil, *Hylobius abietis*. Physiological Entomology 30: 225-231.

E Nordlander, G., Bylund, H. & Björklund, N. 2005. Soil type and microtopography influencing feeding above and below ground by the pine weevil *Hylobius abietis* (L.). Agricultural and Forest Entomology 7: 107-113.

E Petersson, M., Örlander, G. & Nordlander, G. 2005. Soil features affecting damage to conifer seedlings by the pine weevil *Hylobius abietis.* Forestry 78: 83-92.

C Jonsell, M. & Nordlander, G. 2004. Host selection patterns in insects breeding in bracket fungi. Ecological Entomology 29: 697-705.

E* Legrand, S., Nordlander, G., Nordenhem, H., Borg-Karlson, A.-K. & Unelius, C. R. 2004. Hydroxy-methoxybenzoic methyl esters: synthesis and antifeedant activity on the pine weevil, *Hylobius abietis*. Zeitschrift für Naturforschung 59b: 829-835.

E Bylund, H., Nordlander, G. & Nordenhem, H. 2004. Feeding and oviposition rates in the pine weevil *Hylobius abietis* (Coleoptera: Curculionidae). Bulletin of Entomological Research 94: 307-317.

E Örlander, G. & Nordlander, G. 2003. Effects of field vegetation control on pine weevil (*Hylobius abietis*) damage to newly planted Norway spruce seedlings. Annals of Forest Science 60: 667-671.

E Nordlander, G., Bylund, H., Örlander, G. & Wallertz, K. 2003. Pine weevil population density and damage to coniferous seedlings in a regeneration area with and without shelterwood. Scandinavian Journal of Forest Research 18: 438-448.

E Nordlander, G., Örlander, G. & Langvall O. 2003. Feeding by the pine weevil *Hylobius abietis* in relation to sun exposure and distance to forest edges. Agricultural and Forest Entomology 5: 191-198.

C Jonsson, M., Kindvall, O., Jonsell, M. & Nordlander, G. 2003. Modelling mating success of saproxylic beetles in relation to search behaviour, population density and substrate abundance. Animal Behaviour 65: 1069-1076.

E Björklund, N., Nordlander, G. & Bylund, H. 2003. Host-plant acceptance on mineral soil and humus by the pine weevil *Hylobius abietis* (L.). Agricultural and Forest Entomology 5: 61-65.

S* Allemand, R., Lemaître, C., Frey, F., Boulétreau, M., Vavres, F., Nordlander, G., van Alphen, J. & Carton, Y. 2003. Phylogeny of six African *Leptopilina* species (Hymenoptera: Cynipoidea, Figitidae), parasitoids of *Drosophila*, with descriptions of three new species. Ann. Soc. Entomol. Fr. 38: 319-332.

S* Fontal-Cazalla, F.M., Buffington, M., Nordlander, G., Liljeblad, J., Ros-Farré, P., Nieves Aldrey, J. L., Pujade-Villar, J. & Ronquist, F. 2002. Phylogeny of the Eucoilinae (Hymenoptera: Cynipoidea: Figitidae). Cladistics 18: 154-199.

C Jonsell, M. & Nordlander, G. 2002. Insects in polypore fungi as indicator species: a comparison between forest sites differing in amounts and continuity of dead wood. Forest Ecology and Management 157: 101-118.

E* Bratt, K., Sunnerheim, K., Nordenhem, H., Nordlander, G. & Långström, B. 2001. Pine weevil (*Hylobius abietis*) antifeedants from lodgepole pine (*Pinus contorta*). Journal of Chemical Ecology 27: 2253-2262.

E Örlander, G., Nordlander, G. & Wallertz, K. 2001. Extra food supply decreases damage by the pine weevil *Hylobius abietis*. Scandinavian Journal of Forest Research 16: 450-454.

C Jonsson, M. Jonsell, M. & Nordlander, G. 2001. Priorities in conservation biology: a comparison between two polypore-inabiting beetles. Ecological Bulletins 49: 195-204.

C Jonsell, M., Nordlander, G. & Ehnström, B. 2001. Substrate associations of insects breeding in fruiting bodies of wood-decaying fungi. Ecological Bulletins 49: 173-194.

E Örlander, G, Nordlander, G., Wallertz, K. & Nordenhem, H. 2000. Feeding in the crowns of Scots pine trees by the pine weevil *Hylobius abietis*. Scandinavian Journal of Forest Research 15: 194-201.

E Kindvall, O., Nordlander, G. & Nordenhem, H. 2000. Movement behaviour of the pine weevil *Hylobius abietis* in relation to soil type: an arena experiment. Entomologia Experimentalis et Applicata 95: 53-61.

C Jonsell, M., Nordlander, G. & Jonsson, M. 1999. Colonization patterns of insects breeding in wood-decaying fungi. Journal of Insect Conservation 3: 145-161.

C* Fäldt, J., Jonsell, M., Nordlander, G. & Borg-Karlson, A.-K. 1999. Volatiles of bracket fungi *Fomitopsis pinicola* and *Fomes fomentarius* and their functions as insect attractants. Journal of Chemical Ecology 25: 567-590.

S* Schilthuizen, M., Nordlander, G., Stouthamer, R. & van Alphen, J.J.M. 1998. Morphological and molecular phylogenetics in the genus *Leptopilina* (Hymenoptera: Cynipoidea: Eucoilidae). Systematic Entomology 23: 253-264.

C Jonsson, M., Nordlander, G. & Jonsell, M. 1997. Pheromones affecting flying beetles colonizing fruiting bodies of *Fomes fomentarius* and *Fomitopsis pinicola.* Entomologica Fennica 8: 161-165.

E Nordlander, G., Nordenhem, H. & Bylund, H. 1997. Oviposition patterns of the pine weevil *Hylobius abietis*. Entomologia Experimentalis et Applicata 85: 1-9.

E Örlander, G., Nilsson, U. & Nordlander, G. 1997. Pine weevil abundance on clearcuts of different ages: a 6-year study using pitfall traps. Scandinavian Journal of Forest Research 12: 225-240.

E Lindgren, B.S., Nordlander, G. & Birgersson, G. 1996. Feeding deterrence of verbenone to the pine weevil, *Hylobius abietis* (L.) (Col., Curculionidae). Journal of Applied Entomology 120: 397-403.

S Nordlander, G., Liu, Z. & Ronquist, F. 1996. Phylogeny and historical biogeography of the cynipoid wasp family Ibaliidae (Hymenoptera). Systematic Entomology 21: 151-165.

C Jonsell, M. & Nordlander, G. 1995. Field attraction of Coleoptera to odours of the wood-decaying polypores *Fomitopsis pinicola* and *Fomes fomentarius.* Annales Zoologici Fennici 32: 391-402.

S Liu, Z. & Nordlander, G. 1994. Review of the family Ibaliidae (Hymenoptera: Cynipoidea) with keys to genera and species of the World. Entomologica Scandinavica 25: 377-392.

E Nordenhem, H. & Nordlander, G. 1994. Olfactory oriented migration through soil by root-living *Hylobius abietis* (L.) larvae (Col., Curculionidae). Journal of Applied Entomology 117: 457-462.

S Liu, Z. & Nordlander, G. 1992. Ibaliid parasitoids of siricid woodwasps in North America: two new *Ibalia* species and a key to species (Hymenoptera: Cynipoidea). Proceedings of the Entomological Society of Washington 94: 500-507.

S Alphen, J.J.M. van, Nordlander, G. & Eijs, I. 1991. Host habitat finding and host selection of the *Drosophila* parasitoid *Leptopilina australis* (Hymenoptera, Eucoilidae), with a comparison of the niches of European *Leptopilina* species. Oecologia 87: 324-329.

S Nordlander, G. & Grijpma, P. 1991. Systematics and biology of *Rhoptromeris strobigena* sp. n., a parasitoid of chloropids inhabiting conifer cones (Hymenoptera: Cynipoidea: Eucoilidae). Entomologica Scandinavica 22: 209-218.

E Nordlander, G. 1991. Host finding in the pine weevil *Hylobius abietis*: effects of conifer volatiles and added limonene. Entomologia Experimentalis et Applicata 59: 229-237.

E Nordlander, G. 1990. Limonene inhibits attraction to α-pinene in the pine weevils *Hylobius abietis* and *H. pinastri.* Journal of Chemical Ecology 16: 1307-1320.

S Ronquist, F. & Nordlander, G. 1989. Skeletal morphology of an archaic cynipoid, *Ibalia rufipes* (Hymenoptera: Ibaliidae). Entomologica Scandinavica, Suppl. 33: 1-60.

E Nordlander, G. 1987. A method for trapping *Hylobius abietis* (L.) with a standardized bait and its potential for forecasting seedling damage. Scandinavian Journal of Forest Research 2: 199-213.

E Tilles, D.A., Nordlander, G., Nordenhem, H., Eidmann, H.H., Wassgren, A.-B. & Bergström, G. 1986. Increased release of host volatiles from feeding scars: A major cause of field aggregation in the pine weevil *Hylobius abietis* (Coleoptera: Curculionidae). Environmental Entomology 15: 1050-1054.

E Tilles, D.A., Sjödin, K., Nordlander, G. & Eidmann, H.H. 1986. Synergism between ethanol and conifer host volatiles as attractants for the pine weevil, *Hylobius abietis* (L.) (Coleoptera: Curculionidae). Journal of Economic Entomology 79: 970-973.

E Nordlander, G., Eidmann, H.H., Jacobsson, U., Nordenhem, H. & Sjödin, K. 1986. Orientation of the pine weevil *Hylobius abietis* to underground sources of host volatiles. Entomologia Experimentalis et Applicata 41: 91-100.

S Nordlander, G. 1982. Identities and relationships of the previously confused genera *Odonteucoila, Coneucoela,* and *Trichoplasta* (Hymenoptera, Cynipoidea: Eucoilidae). Entomologica Scandinavica 13: 269-292.

S Nordlander, G. 1981. A review of the genus *Trybliographa* Förster, 1869 (Hymenoptera, Cynipoidea: Eucoilidae). Entomologica Scandinavica 12: 381-402.

S Nordlander, G. 1980. Revision of the genus *Leptopilina* Förster, 1869, with notes on the status of some other genera (Hymenoptera, Cynipoidea: Eucoilidae). Entomologica Scandinavica 11: 428-453.

S Nordlander, G. 1978. Parasitoids of the frit fly, *Oscinella frit* (L.), on oats. Norwegian Journal of Entomology 25: 89-90.

S Nordlander, G. 1978. Revision of the genus *Rhoptromeris* Förster, 1869 with reference to north-western European species. Studies on Eucoilidae (Hym.: Cynipoidea) II. Entomologica Scandinavica 9: 47-62.

S Nordlander, G. 1976. Studies on Eucoilidae (Hym., Cynipoidea). I. A revision of the north-western European species of *Cothonaspis* Htg. with description of a new species and notes on some other genera. Entomologisk Tidskrift 97: 65-77.

Monographs (also listed above)

Liu, Z., Ronquist, F. & Nordlander, G. 2007. The cynipoid genus *Paramblynotus*: revision, phylogeny and historical biogeography (Hymenoptera: Liopteridae). Bulletin of the American Museum of Natural History 304: 1-151.

Ronquist, F. & Nordlander, G. 1989. Skeletal morphology of an archaic cynipoid, *Ibalia rufipes* (Hymenoptera: Ibaliidae). Entomologica Scandinavica, Suppl. 33: 1-60.

Book chapters

Björkman, C., Bylund, H., Nilsson, U., Nordlander, G. & Schroeder, L. M. 2015. Forest management to mitigate insect damage in a changing climate. Pp. 248-266 *in*: Björkman, C. & Niemelä, P. (eds.) Climate Change and Insect Pests. CABI, UK, ix + 266 pp. ISBN-13: 978 1 78064 378 6. http://www.cabi.org/cabebooks/ebook/20153325832

Jonsson, M. & Nordlander, G. 2006. Insect colonisation of fruiting bodies of the wood-decaying fungus *Fomitopsis pinicola* at different distances from an old-growth forest. Pp 281-295 *in*: Hawkworth, D. L. and Bull, A. T. (eds.).Topics in Biodiversity and Conservation, Vol 1. Arthropod Diversity and Conservation. Springer. ISBN 978-1-4020-5203-3 (Print), 978-1-4020-5204-0 (Online). (Originally published in Biodiversity and Conservation 15: 295-309.)

Day, K. R., Nordlander, G., Kenis, M. & Halldórsson, G. 2004. General biology and life cycles of bark weevils. Chapter 14, pp.331-349 *in*: Lieutier, F., Day, K. R., Battisti, A. Grégoire, J.-C. & Evans, H. F. (eds.). Bark and wood boring insects in living trees in Europe, a synthesis. Kluwer Academic Publishers, Dordrecht.

Doctoral thesis

Nordlander, G. 1982. Systematics and phylogeny of an interrelated group of genera within the family Eucoilidae (Insecta: Hymenoptera, Cynipoidea). Doctoral dissertation, Univ. of Stockholm, Dept. of Zoology, Stockholm (ISBN 91-7146-221-x).

Conference papers/abstracts

Fedderwitz, F., Björklund, N. & Nordlander, G. 2019. Plant protection by artificially induced defences. Irish Plant Scientists Association Meeding, 25-27 June 2019, Carlow, Ireland.

Nordlander, G. 2017. Insecticides are phased out in Swedish forestry – physical protection of seedlings takes over. P 68, Abstract Book, Joint Meeting of IUFRO WPs 7.03.05 & 7.03.10. 11-15, Forest Insects and Pathogenes in a Changing Environment: Ecology, Monitoring & Genetics, 11-15 September 2017, Thessaloniki, Greece. http://www.iufrogreece2017.com/wp-content/uploads/2017/10/IUFRO2017-AbstractBook-Preview.pdf

Fedderwitz, F., Björklund, N. & Nordlander, G. 2017. Artificially induced defences against pine weevil damage. P 49, Abstract Book, Joint Meeting of IUFRO WPs 7.03.05 & 7.03.10. 11-15, Forest Insects and Pathogenes in a Changing Environment: Ecology, Monitoring & Genetics, 11-15 September 2017, Thessaloniki, Greece.

Björklund, N., Nordlander, G., Fedderwitz, F., Ninkovic, V. Lundborg, L., Sampedro, L. & Zas, R. 2015. Improved forest regeneration by triggering the induced defence of conifer seedlings against bark-feeding insects. P 163 in: ISCE2015, International Society of Chemical Ecology, Stockholm, Sweden 29th June – 3rd July 2015.

Zas, R., Björklund, N., Nordlander, G., Cendán, C., Hellqvist, C. & Sampedro, L. 2013. Moving to the field: effective protection of conifer seedlings against a forest pest by eliciting jasmonate-induced resistance. Proceedings: Induced resistance in plants against insects and diseases, Avignon, France, 10-13 June 2013. IOBC-WPRS Bulletin 89: 277-281.

Fedderwitz, F., Björklund, N., Ninkovic, V. & Nordlander, G. 2012. Pine weevil (*Hylobius abietis*) feeding pattern on conifer seedlings. Pp. 333-337 in: Proceedings of Measuring Behaviour 2012, 28-31 August 2012, Utrecht, The Netherlands, 524 pp.

Nordlander, G. 2007. Reproduction of *Hylobius abietis* in roots of storm-felled trees: Quality determines resource availability. (Abstract of poster, 1 p.) Programme IUFRO Wien 2007 Symposium "Natural enemies and other multi-scale influences on forest insects". University of Natural Resources and Applied Life Siences, BOKU-Vienna, Austria.

Bylund, H., Petersson, M. & Nordlander, G. 2007. Is the pine weevil population density limited by the amount of breeding resources? (Abstract, 1 p.) Programme IUFRO Wien 2007 Symposium "Natural enemies and other multi-scale influences on forest insects". University of Natural Resources and Applied Life Siences, BOKU-Vienna, Austria.

Bylund, H., Nordenhem, H. & Nordlander, G. 2006. Is the parasitoid *Perilitus areolaris* a significant mortality factor for adult pine weevils? P. 144 in: Proceedings IUFRO Kanazawa 2003 International Symposium "Forest Insect Population Dynamics and host Influences". Kanazawa University, Japan, 176 pp.

Liu, Z., Nordlander, G. & Ronquist, F. 1995. Historical biogeography of woodwasp parasitoids (Hymenoptera: Ibaliidae). P 32 in: Forests and Insects, 18th Symposium of the Royal Entomological Society, 13-15 September 1995, London.

Jonsell, M. & Nordlander, G. 1995. Dispersal of insects living on bracket fungi. P 30 in: Forests and Insects, 18th Symposium of the Royal Entomological Society, 13-15 September 1995, London.

Nordlander, G. 1995. Host finding in *Hylobius abietis* – possibilities for control. P. 177 in: Caring for the Forest: Research in a Changing World. Abstract of invited Papers. IUFRO XXWorld Congress, 6-12 August 1995, Tampere, Finland, 512 pp.

Nordlander, G. 1989. The use of artificial baits to forecast seedling damage caused by *Hylobius abietis* (Coleoptera: Curculionidae). Pp. 34-35 in: Alfaro, R.I. & Glover, S.G. (eds.), Insects Affecting Reforestation: Biology and Damage. Forestry Canada, Victoria, Canada, 256 pp.

Nordlander, G. 1984. Location of breeding material by the large pine weevil, *Hylobius abietis* (L.) (Col.: Curculionidae). P. 594 in: Abstract Volume, XVII International Congress of Entomology, August 20-26 1984, Hamburg, Germany, 960 pp.

Patents

Nordenhem, H. & Nordlander, G. 2002. Protection of tree plants. Swedish and EPC Patent 02798893.0-2103-SE0201693.

Sunnerheim, K., Nordlander, G., Bratt, K. Nordenhem, R., Unelius, R. & Borg-Karlson, A.-K. 2002. Use for conifer sapling protection. Swedish and PCT Patent WO 015691 A1.

Nordlander, G., Nordenhem, H., Borg-Karlson, A.-K. & Unelius, R. 2000. Use for conifer sapling protection. Swedish and PCT Patent WO 0056152 A1.

EU project report

Final Report Summary - WEEVIL STOP (Development of a cost-effective and sustainable insecticide-free plant protection method, eliminating widespread catastrophic damage in the forestry caused by the pine weevil *Hylobius abietis*). 2016. http://cordis.europa.eu/result/rcn/189147_en.html

Scientific reports in Swedish

Örlander, I., Örlander, G. & Nordlander, G. 2004. Varför angriper snytbaggen inte vissa plantor – resistens eller tillfälligheter. Sveriges lantbruksuniversitet, Asa försökspark, Rapport nr 2 – 2004, 11 pp.

Nordlander, G., Örlander, G., Petersson, M., Bylund, H., Wallertz, K., Nordenhem, H. & Långström, B. 2000. Snytbaggebekämpning utan insekticider – slutrapport från ett TEMA-forskningsprogram. Sveriges lantbruksuniversitet, Asa försökspark, Rapport nr 1 – 2000, 77 pp.

Wiersma, N. & Nordlander, G. 1985. Provning av systemiska insekticider mot insekter i grankottar. Växtskyddsnotiser 48: 113-116 (English summary).

Nordlander, G. & von Rosen, H. 1980. Skall trips i vårsäd bekämpas? Växtskyddsnotiser 44: 49-51 (English summary).

Prado, E. & Nordlander, G. 1979. Ytbehandling med juvenilhormonanalogen metopren (Altosid SR 10) som skydd mot en förrådsskadeinsekt, rismjölbaggen (*Tribolium confusum*). Växtskyddsnotiser 43: 116-124.

Nordlander, G. 1978. Populationsekologi hos fritflugan, *Oscinella frit* (L.). Växtskyddsrapporter, Jordbruk 4: 41-51 (English summary p. 243).

Nordlander, G. & von Rosen, H. 1978. Kartfall hos äpple efter besprutning med triklorfon. Växtskyddsnotiser 41: 130-132 (English summary p. 159).

Nordlander, G. 1977. Observationer över insektsfaunan i äppelträd i samband med prövning av bekämpningsmedel för integrerad bekämpning. Växtskyddsnotiser 41: 39-48 (English summary p. 62).

Nordlander, G. 1975. Försök med Altozar och Altosid mot två skadegörare i lagrad spannmål. Växtskyddsnotiser 39: 136-139.

Nordlander, G. 1974. Parasitsteklar i galler av *Diplolepis rosae* (L.) och *D. mayri* Schlechtd. (Hym. Cynipidae) (Hym. Ichneumonoidea, Chalcidoidea, Cynipoidea). Entomologisk Tidskrift 94: 148-176 (English summary).

Popular science and research information

Nordlander, G. & Hellqvist, C. 2000-(continuously updated). Snytbaggen – biologi och aktuell forskning, http://snytbagge.slu.se/

Nordlander, G., Wallertz, K., Björklund, N., Hellqvist, C. & Petersson, M. & 2017. Snytbaggen. Pp 46-64 *in*: Skador på skog, del 1, Skogsskötselserien nr 12, (Witzell, J., editor). Skogsstyrelsen, 113 pp. https://www.skogsstyrelsen.se/globalassets/mer-om-skog/skogsskotselserien/skador-pa-skog---del-1---slutversion---8-maj-2017.pdf

Lindelöw, Å., Hellqvist, C. & Nordlander, G.2017. Svart granbastborre. Pp 65-68 *in*: Skador på skog, del 1, Skogsskötselserien nr 12, (Witzell, J., editor). Skogsstyrelsen, 113 pp. https://www.skogsstyrelsen.se/globalassets/mer-om-skog/skogsskotselserien/skador-pa-skog---del-1---slutversion---8-maj-2017.pdf

Björklund, N., Hellqvist, C., Härlin, C., Johansson, K., Nordlander, G. & Wallertz, K. 2014. Snytbaggen – åtgärder för lyckade planteringar. SLU, Uppsala, 8 pp. Available at: http://pub.epsilon.slu.se/11687/1/bj%C3%B6rklund_n_141205.pdf

Hellqvist, C., Lindelöw, Å. & Nordlander, G. 2014. Ökande plantskador av bastborrar. Skogseko 2014(2): 40-41.

Nordlander, G. 2014. Mångsidigt om biologiska samlingar. (*Book review*: Ingelög, T. 2013. Skatter i vått och torrt. Biologiska samlingar i Sverige.) Entomologisk Tidskrift 135: 58-59.

Nordlander, G. & Hellqvist, C. 2011. Trolig skadeökning av snytbagge i norr. Skogseko 26(1): 32.

Nordlander, G. 2010. Hur klarar vi snytbaggen i framtiden? Skogseko 2010(1), Bilaga Insektsskador, pp. 6-7.

Nordlander, G. 2010. Stora snytbaggeskador längs Götalands ostkust. Skogseko 2010(1), Bilaga Insektsskador, pp. 4-5.

Nordlander, G., Petersson, M. & Wallertz, K. 2009. Snytbaggen. Pp 40-55 *in*: Skador på skog, Skogsskötselserien nr 17 (Witzell, J., editor). Skogsstyrelsen, 192 pp.,

Nordlander, G. 2009. Så skyddar du planteringen mot snytbagge. Skogseko 24(2): 34-35.

Ericsson, Y. & Nordlander, G. 2008. Sandkorn stoppar snytbaggen. Miljötrender från SLU 4: 10-11.

Nordlander, G. & Hallin, A.-K. 2008. Snytbaggeskador väntas öka. Miljöaktuellt 35(6): 14.

Nordlander, G. & Hellqvist, C. 2008. Stora snytbaggeskador även i Norrlandsskogar. Skogseko 2008(1): 25.

Nordlander, G. 2007. Nya steklar vägleder globalt bevarande. Notiser från SLU 2007(5): 2.

Nordlander, G. 2006. Snytbaggen bekämpas giftfritt. P. 6 in: Näring åt näringslivet.VINNOVA och Formas, Stockholm, 24 pp.

Nordlander, G. & Bylund, H. 2006. Snytbaggarna – vad kommer att hända i planteringarna? 2 pp. in: Gudrun och insekterna. SLU, Institutionen för entomologi, Uppsala.

Nordlander, G. 2006. Snytbaggekamp utan gifter. Notiser från SLU 2006(2): 2.

Nordlander, G & Bylund, H. 2006. Stora plantskador förväntas 2007. Skogseko 2006(1): 26.

Nordlander, G., Örlander, G., Petersson, M. & Hellqvist, H. 2006 (version 1.0). Skogskötselåtgärder mot snytbagge , PDF, 43 pp., http://snytbagge.slu.se/attachment/snytbaggehandbok_v1_3.pdf

Petersson, M., Wallertz, K, Hellqvist, C. & Nordlander, G. 2006. Åtgärder mot snytbaggen. SLU, Asa försökspark och Institutionen för entomologi, Uppsala, 8 pp.

Nordlander, G. 2005.Insekter att bevara och betvinga. Professorsinstallationer, SLU, pp. 45-47.

Nordlander, G. & Bylund, H. 2005.Snytbaggen i stormens spår. Skogseko februari 2005: 12.

Nordlander, G., Petersson, M., von Hofsten, H. & Lindström, A. 2001. Plantskydd mot snytbagge – principerna och verkligheten. SkogForsk Resultat 12: 1-4.

Bylund, H. & Nordlander, G. 2001. Snytbaggen äter mycket mer än plantor. Plantaktuellt 2001(1): 4-5.

Björklund, N. & Nordlander, G. 2001. Snytbaggen hittar *alla* plantor! Plantaktuellt 2001(1): 5.

Nordlander, G. 2001. Gnagavskräckande ämne kan bli framtidens plantskydd. Plantaktuellt 2001(1): 16.

Nordlander, G. 2001 Forskningsprogrammet Snytbagge 2005. Plantaktuellt 2001(1): 3.

Jonsell, M. & Nordlander, G. 1999. Gamla skogar är viktiga – även för insekter i vanliga tickor. Skog & Forskning 1999(4): 34-37.

Nordlander, G. 1999. Toalettbestyr gav tips om plantskydd. Skogseko 1999(4): 8-9.

Nordlander, G. 1998. Steklars evolution kartlagd. Växtskyddsnotiser 62: 56.

Örlander, G. & Nordlander, G. 1998. Skärmar, markberedning och andra skogsskötselåtgärder - kan de minska snytbaggeskadorna? Kungliga Skogs- och Lantbruksakademiens Tidskrift 137(15): 59-69.

Nordlander, G. 1998. Vad kan vi göra åt snytbaggeproblemet? Kungliga Skogs- och Lantbruksakademiens Tidskrift 137(15): 35-41.

Örlander, G. & Nordlander, G. 1996. Skärm skyddar mot skador. Skogseko 1996(2): 14-15.

Nordlander, G. & Nordenhem, H. 1996 Äggen som gäckat forskarna. Skogseko 1996(2): 12.

Nordlander, G. 1996. Dofter som lockar och avskräcker. Skogseko 1996(2): 8-9.

Långström, B., Nordlander, G. & Örlander, G. 1996. Snytbaggen - ett resultat av hyggesbruk. Skogseko 1996(2): 6-7.

Nordlander, G. 1991. Trädsubstansen limonen hindrar snytbaggen att hitta rätt. Skogsfakta 1991(5): 1-4.

Nordlander, G. 1987. Doftfällor för snytbaggar - en möjlighet att förutsäga skaderisker? Skogsfakta, Ser. Biologi Skogsskötsel 39: 1-6.

Nordlander, G. 1984. Vad vet vi om parasitiska Cynipoidea? Entomologisk Tidskrift 105: 36-40 (English summary).

Nordlander, G. 1984. Är kladistisk metodik tillämpbar på bristfälligt kända parasitstekelgrupper? Entomologisk Tidskrift 105: 31-35 (English summary).

Nordlander, G. 1979. (*Book review*:) Quinlan, J. 1978. Hymenoptera: Cynipoidea: Eucoilidae. Handbooks for the Identification of British Insects, Vol VIII, Part 1(b). - Entomologisk Tidskrift 100: 15-16.

Nordlander, G. 1979. Den första europeiska entomologkongressen. - Växtskyddsnotiser 42: 126-128.