

## REFEROIDUT JULKAISUT

Metlan tutkijoiden kansainväliset referoidut julkaisut vuonna 2007

Alm, J., Shurpali, N.J., Minkkinen, K., Aro, L., Hytönen, J., Laurila, T., Lohila, A., Maljanen, M., Martikainen, P.J., Mäkiranta, P., Penttilä, T., Saarnio, S., Silvan, N., Tuittila, E.-S. & Laine, J. Emission factors and their uncertainty for the exchange of CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O in Finnish managed peatlands. *Boreal Environment Research* 12(2): 191-209.

Alm, J., Shurpali, N.J., Tuittila, E.-S., Laurila, T., Maljanen, M., Saarnio, S. & Minkkinen, K. Methods for determining emission factors for the use of peat and peatlands flux measurements and modelling. *Boreal Environment Research* 12(2): 85-100.

Aurela, M., Riutta, T., Laurila, T., Tuovinen, J.-P., Vesala, T., Tuittila, E.-S., Rinne, J., Haapanala, S., & Laine, J. CO<sub>2</sub> exchange of a sedge fen in southern Finland - the impact of a drought period. *Tellus Series B: Chemical and Physical Meteorology* 59: 826-837.

Auvinen, A.-P. et al. (24 kirjoittajaa, Metlasta Korhonen, K.T., Kärkkäinen, L., Nuutinen, T. & Salminen, O.). Evaluation of the Finnish National Biodiversity Action Plan 1997-2005. *Monographs of the Boreal Environment Research* 29. 54 s.

Bell, S., Tyrväinen, L., Sievänen, T., Pröbstl, U. & Simpson, M. Outdoor recreation and nature tourism: trends, conflicts and research needs - a European perspective. *Living Reviews in Landscape Research* 1(2). 46 s.

Bergvall, U.A., Rautio, P., Luotola, T. & Leimar, O. A test of simultaneous and successive negative contrast in fallow deer foraging behaviour. *Animal Behaviour* 74: 395-402.

Buurman, P., Schellekens, J., Fritze, H. & Nierop, K.G.J. Selective depletion of organic matter in mottled podzol horizons. *Soil Biology & Biochemistry* 39: 607-621.

Byholm, P. & Nikula, A. Nesting failure in Finnish Northern Goshawks *Accipiter gentilis*: incidence and cause. *Ibis* 149(3): 597-604.

Byholm, P., Nikula, A., Kenttä, J. & Taivalmäki, J.-P. Interactions between habitat heterogeneity and food affect reproductive output in a top predator. *Journal of Animal Ecology* 76: 392-401.

Campbell, R., McCarroll, D., Loader, N., Grudd, H., Robertson, I. & Jalkanen, R. Blue intensity in *Pinus sylvestris* tree-rings: developing a new palaeoclimate proxy. *The Holocene* 17(6): 821-828.

Cornelissen, H. et al. (34 kirjoittajaa, Metlasta Tolvanen, A.). Global negative vegetation feedback to climate warming responses on leaf litter decomposition rates in cold biomes. *Ecology Letters* 10: 619-627.

D'Amico, L., Motta, E., Annesi, T., Scire, M., Luchi, N., Hantula, J., Korhonen, K. & Capretti, P. The North American P group of *Heterobasidion annosum* s.l. is widely distributed in *Pinus pinea* forests of the western coast of central Italy. *Forest Pathology* 37(5): 303-320.

- Eerikäinen, K., Miina, J. & Valkonen, S. Models for the regeneration establishment and the development of established seedlings in uneven-aged, Norway spruce dominated forest stands of southern Finland. *Forest Ecology and Management* 242(2-3): 444-461.
- Eriksson, M., Neuvonen, S. & Roininen, H. Retention of wind-felled trees and the risk of consequential tree mortality by the European spruce bark beetle *Ips typographus* in Finland. *Scandinavian Journal of Forest Research* 22: 516-523.
- Favada, I.M., Kuuluvainen, J. & Uusivuori, J. Consistent estimation of long-run nonindustrial private forest owner timber supply using micro data. *Canadian Journal of Forest Research* 37(8): 1485-1494.
- Favada, I.M., Kuuluvainen, J. & Uusivuori, J. Optimal timber stock in Finnish nonindustrial private forests. *Forest Policy and Economics* 9(5): 527-535.
- Fedorkov, A., Kaitera, J. & Jalkanen, R. Condition and growth of Scots pine seedlings under strong and weak pollution in Kola Peninsula. *Baltic Forestry* 13(2): 179-183.
- Finér, L., Helmisaari, H.-S., Lõhmus, K., Majdi, H., Brunner, I., Børja I., Eldhuset, E., Godbold, D., Grebenc, T., Konôpka, B., Kraigher, H., Möttönen M.-R., Ohashi, M., Oleksyn, J., Ostonen, I., Uri, U. & Vanguelova, E. Variation in fine root biomass of three European tree species: Beech (*Fagus sylvatica* L.), Norway spruce (*Picea abies* L. Karst.) and Scots pine (*Pinus sylvestris* L.). *Plant Biosystems* 141: 394-405.
- Frouz, J. & Finér, L. Diurnal and seasonal fluctuations in wood ant (*Formica polyctena*) nest temperature in two geographically distant populations along a south-north gradient. *Insectes Sociaux* 54: 251-259.
- Fältmarsch, R., Peltola, P., Åström, M. & Raitio, H. Abundance, correlations and spatial patterns of nutrients and metals in till, humus, moss and pine needles in a boreal forest, western Finland. *Geochemistry: Exploration, Environment, Analysis* 7: 57-69.
- Gagen, M., McCarroll, D., Loader, N., Robertson, I., Jalkanen, R. & Anchukaitis, K.J. Exorcising the segment length curse: summer temperature reconstruction since AD 1640 using non-detrended stable carbon isotope ratios from pine trees in northern Finland. *The Holocene* 17(4): 435-446.
- Gerasimov, Y., Karjalainen, T., Ilavský, J., Tahvanainen, T. & Goltsev, V. Possibilities for energy wood procurement in north-west Russia: Assessment of energy wood resources in the Leningrad region. *Scandinavian Journal of Forest Research* 22(6): 559-567.
- Grekin, M. Color and color uniformity variation of Scots pine wood in the air-dry condition. *Wood and Fiber Science* 39(2): 279-290.
- Gross, J., Fatouros, N.E., Neuvonen, S. & Hilker, M. The role of competitors for *Chrysomela lapponica*, a north Eurasian willow pest, in pioneering a new host plant. *Journal of Pest Science* 80(3): 139-143.
- Hakkarainen, H., Huhta, E., Koskela, E., Mappes, T., Soveri, T. & Suorsa, P. Elmeria-parasites are associated with a lowered mothers and offspring body condition in island and mainland populations of the bank vole. *Parasitology* 134: 23-31.

Hallikainen, V., Hyppönen, M., Hyvönen, J. & Niemelä, J. Establishment and height development of harvested and naturally regenerated Scots pine near the timberline in North-East Finnish Lapland. *Silva Fennica* 41(1): 71-88.

Haukisalmi, V. & Henttonen, H. A taxonomic revision of the *Paranoplocephala primordialis* (Douthitt) complex (Cestoda: Anoplocephalidae) in voles and squirrels. *Zootaxa* 1548: 51-68.

Haukisalmi, V., Hardman, L.M., Hardman, M., Laakkonen, J., Niemimaa, J. & Henttonen, H. Morphological and molecular characterisation of *Paranoplocephala buryatiensis* n. sp. and *P. longivaginata* Chechulin & Gulysev, 1998 (Cestoda: Anoplocephalidae) in *Clethrionomys* voles. *Systematic Parasitology* 66: 55-71.

Haukisalmi, V., Hardman, L.M., Niemimaa, J. & Henttonen, H. Taxonomy and genetic divergence of *Paranoplocephala kalelai* (Tenora, Haukisalmi & Henttonen, 1985) (Cestoda: Anoplocephalidae) in the grey-sided vole *Myodes rufocanus* in northern Fennoscandia. *Acta Parasitologica* 52(4): 335-341.

Hautala, H. & Vanha-Majamaa, I. Immediate tree uprooting after retention felling in coniferous boreal forest. *Canadian Journal of Forest Research* 36: 3167-3172.

Heikkilä, J., Sirén, M. & Äijälä, O. Management alternatives of energy wood thinning stands. *Biomass & Bioenergy* 31(5): 255-266.

Hein, S., Mäkinen, H., Yue, C. & Kohnle, U. Modelling branch characteristics of Norway spruce from wide spacings in Germany. *Forest Ecology and Management* 242: 155-164.

Heiska, S., Tikkanen, O.-P., Rousi, M. & Julkunen-Tiitto, R. Bark salicylates and condensed tannins reduce vole browsing amongst cultivated dark-leaved willows (*Salix myrsinifolia*). *Chemoecology* 17: 245-253.

Heiska, S., Tikkanen, O.-P., Rousi, M., Turtola, S., Tirkkonen, V., Meier, B. & Julkunen-Tiitto, R. The susceptibility of herbal willow to *Melampsora* rust and herbivores. *European Journal of Plant Pathology* 118: 275-285.

Heiskanen, J. Effect of subirrigation on the growth of Norway spruce container seedlings in a greenhouse: A pilot study. *Wirkung der Unterflurbewässerung auf das Wachstum von Containerpflanzen norwegischer Fichtensetzlinge unter Gewächshausbedingungen: Eine Pilotstudie. Journal of Applied Irrigation Science* 42(1): 19-28.

Heiskanen, J., Mäkitalo, K. & Hyvönen, J. Long-term influence of site preparation on water-retention characteristics of forest soil in Finnish Lapland. *Forest Ecology and Management* 241: 127-133.

Helmisaari, H.-S., Derome, J., Nöjd, P. & Kukkola, M. Fine root biomass in relation to site and stand characteristics in Norway spruce and Scots pine stands. *Tree Physiology* 27: 1493-1504.

Helmisaari, H.-S., Salemaa, M., Derome, J., Kiikkilä, O., Uhlig, C. & Nieminen, T. Remediation of heavy metal-contaminated forest soil using recycled organic matter and native woody plants. *Journal of Environmental Quality* 36: 1145-1153.

- Hilli, P., Kallio, M. & Kallio, M. Real option analysis of a technology portfolio. *Review of Financial Economics* 16(2): 127-147.
- Huitu, O., Jokinen, I., Korpimäki, E., Koskela, E. & Mappes, T. Phase dependence in winter physiological condition of cyclic voles. *Oikos* 116(4): 565-577.
- Hujala, T., Pykäläinen, J. & Tikkanen, J. Decision making among Finnish non-industrial private forest owners: The role of professional opinion and desire to learn. *Scandinavian Journal of Forest Research* 22(5): 454-463.
- Huotari, N., Tillman-Sutela, E., Kauppi, A. & Kubin, E. Fertilization ensures rapid formation of ground vegetation on cut-away peatlands. *Canadian Journal of Forest Research* 37: 874-883.
- Hurme, E., Reunanen, P., Mönkkönen, M., Nikula, A., Nivala, V. & Oksanen, J. Local habitat patch pattern of the Siberian flying squirrel in a managed boreal forest landscape. *Ecography* 30: 277-287.
- Huttunen, L., Niemelä, P., Peltola, H., Heiska, S., Rousi, M. & Kellomäki, S. Is a defoliated silver birch seedling able to overcompensate the growth under changing climate? *Environmental and Experimental Botany* 60: 277-238.
- Huuskonen, S. & Miina, J. Stand-level growth models for young Scots pine stands in Finland. *Forest Ecology and Management* 241(1-3): 49-61.
- Hyytiäinen, K. & Penttinen, M. Applying portfolio optimisation to the harvesting decisions of non-industrial private forest owners. *Forest Policy and Economics* 10(3): 151-160.
- Häikiö, E., Freiwald, V., Silfver, T., Beuker, E., Holopainen, T. & Oksanen, E. Impacts of elevated ozone and nitrogen on growth and photosynthesis of European aspen (*Populus tremula*) and hybrid aspen (*P. tremula* x *Populus tremuloides*) clones. *Canadian Journal of Forest Research* 37(11): 2326-2336.
- Hänninen, R. & Kallio, A.M.I. Economic impacts on the forest sector of increasing forest biodiversity conservation in Finland. *Silva Fennica* 41(3): 507-523.
- Hänninen, R., Toppinen, A. & Toivonen, R. Transmission of price changes in sawnwood and sawlog markets of the new and old EU member countries. *European Journal of Forest Research* 126(1): 111-120.
- Insinna, P., Götz, B., Jalkanen, R. & Aas, G. One-hundred-year foliage comparison of *Pinus ponderosa* and *Pinus sylvestris* under dry growing conditions in Brandenburg, Germany. *Scandinavian Journal of Forest Research* 22(2): 149-159.
- Insinna, P., Jalkanen, R. & Götz, B. Climate impact on 100-year old foliage chronologies of Scots pine and Ponderosa pine in the northeast lowlands of Brandenburg, Germany. *Silva Fennica* 41(4): 605-620.
- Jaakkola, L., Helle, T., Soppela, J., Kuitunen, M. & Yrjönen, M. Effects of forest characteristics on the abundance of alectoroid lichens in northern Finland. *Canadian Journal of Forest Research* 36: 2955-2965.

- Jaakkola, T., Mäkinen, H. & Saranpää, P. Effects of thinning and fertilisation on tracheid dimensions and lignin content of Norway spruce. *Holzforschung* 61: 301-310.
- Jaatinen, K., Fritze, H., Laine, J. & Laiho, R. Effects of short- and long-term water-level drawdown on populations and activity of aerobic decomposers in a boreal peatland. *Global Change Biology* 13: 491-510.
- Jalkanen, R. Diseases, pests and abiotic disorders of trees in the changing environment in Finnish Lapland. Julkaisussa: Taulavuori, E. & Taulavuori, K. (eds.). *Physiology of Northern Plants Under Changing Environment*. Research Signpost. Kerala. s. 105-133.
- Jalkanen, R., Aalto, T., Pensa, M. & Salminen, H. Development of Scots pine in the changing environment of the Northern Boreal Zone in Finland. Julkaisussa: Taulavuori, E. & Taulavuori, K. (eds.). *Physiology of Northern Plants Under Changing Environment*. Research Signpost. Kerala. s. 271-289.
- Jalkanen, R., Büttner, C. & von Bargen, S. Cherry leaf roll virus abundant on *Betula pubescens* in Finland. *Silva Fennica* 41(4): 755-762.
- Jokimäki, J., Kaisanlahti-Jokimäki, M-L, Tuulentie, S, Laine, K. & Uusitalo, M. (eds.). Environment, local society and sustainable tourism. *Arctic Centre Reports* 50. 124 s.
- Jokinen, M. & Sippola, S. Social sustainability at tourist destinations - local opinions on their development and future in northern Finland. Julkaisussa: Jokimäki, J., Kaisanlahti-Jokimäki, M.-L., Tuulentie, S., Laine, K. & Uusitalo, M. (eds.). Environment, local society and sustainable tourism. *Arctic Centre Reports* 50: 89-99.
- Jutras, S., Begin, J., Plamondon, A. & Hökkä, H. Draining an unproductive black spruce peatland stand: 18-year post-treatment tree growth and stand productivity. *Forestry Chronicle* 83(5): 723-732.
- Jylhä, P. & Laitila, J. Energy wood and pulpwood harvesting from young stands using a prototype whole-tree bundler. *Silva Fennica* 41(4): 763-779.
- Jäntti, A., Suorsa, P., Hakkarainen, H., Sorvari, J., Huhta, E. & Kuitunen, M. Within territory abundance of red wood ants *Formica rufa* is associated with the body condition of nestlings in the Eurasian treecreeper *Certhia familiaris*. *Journal of Avian Biology* 38: 619-624.
- Kaakinen, S., Saranpää, P. & Vapaavuori, E. Effect of growth differences due to geographical location and N-fertilisation on wood chemistry of Norway spruce. *Trees - Structure and Function* 21(2): 131-139.
- Kaitera, J. Effect of tree susceptibility on *Peridermium pini* lesion development and sporulation on Scots pine. *Baltic Forestry* 13(1): 45-53.
- Kallio, E.R., Voutilainen, L., Vapalahti, O., Vaheri, A., Henttonen, H., Koskela, E. & Mappes, T. Endemic hantavirus infection impairs the winter survival of its rodent host. *Ecology* 88: 1911-1916.
- Kanerva, S. & Smolander, A. Microbial activities in forest floor layers under silver birch, Norway spruce and Scots pine. *Soil Biology & Biochemistry* 39: 1459-1467.

- Kangas, A., Leskinen, P. & Kangas, J. Comparison of fuzzy and statistical approaches in multicriteria decisionmaking. *Forest Science* 53: 37-44.
- Kangas, K., Sulkava, P., Koivuniemi, P., Tolvanen, A., Siikamäki, P. & Norokorpi, Y. What determines the area of impact around campsites? A case study in a Finnish national park. *Forest, Snow and Landscape Research* 81(1/2): 139-150.
- Kantola, A., Mäkinen, H. & Mäkelä, A. Stem form and branchiness of Norway spruce as a sawn timber - Predicted by a process based model. *Forest Ecology and Management* 241: 209-222.
- Karppanen, O., Venäläinen, M., Harju, A.M., Willför, S., Pietarinen, S., Laakso, T. & Kainulainen, P. Knotwood as a window to the indirect measurement of the decay resistance of Scots pine heartwood. *Holzforschung* 61(5): 600-604.
- Kasurinen, A., Peltonen, P.A., Holopainen, J.K., Vapaavuori, E. & Holopainen, T. Leaf litter under changing climate: Will increasing levels of CO<sub>2</sub> and O<sub>3</sub> affect decomposition and nutrient cycling processes? *Dynamic Soil, Dynamic Plant* 1: 58-67.
- Kasurinen, A., Peltonen, P.A., Julkunen-Tiitto, R., Vapaavuori, E., Nuutinen, V., Holopainen, T. & Holopainen, J.K. Effects of elevated CO<sub>2</sub> and O<sub>3</sub> on leaf litter phenolics and subsequent performance of litter-feeding soil macrofauna. *Plant and Soil* 292: 25-43.
- Keski-Saari, S., Falck, M., Heinonen, J., Zon, J. & Julkunen-Tiitto, R. Phenolics during early development of *Betula pubescens* seedlings: inhibition of phenylalanine ammonia lyase. *Trees - Structure and Function* 21: 273-281.
- Kilpeläinen, J., Finér, L., Niemelä, P., Domisch, T., Neuvonen, S., Ohashi, M., Risch, A.C. & Sundström, L. Carbon, nitrogen and phosphorus dynamics of ant mounds (*Formica rufa* group) in managed boreal forests of different successional stages. *Applied Soil Ecology* 36: 156-163.
- Kinnunen, P.M., Billich, C., Ek-Kommonen, C., Henttonen, H., Kallio, E.R.K., Niemimaa, J., Palva, A., Stäheli, P., Vaheri, A. & Vapalahti, O. Serological evidence for Borna disease virus infection in humans, wild rodents and other vertebrates in Finland. *Journal of Clinical Virology* 38(1): 64-69.
- Kirkinen, J., Minkkinen, K., Penttilä, T., Kojola, S., Sievänen, R., Alm, J., Saarnio, S., Silvan, N., Laine, J. & Savolainen, I. Greenhouse impact due to different peat fuel utilisation chains in Finland - a life-cycle approach. *Boreal Environment Research* 12(2): 211-223.
- Kivimäenpää, M. & Sutinen, S. Microscopic structure of Scots pine (*Pinus sylvestris* (L.) needles during ageing and autumnal senescence. *Trees - Structure and Function* 21(6): 645-659.
- Kivimäki, K., Kärkkäinen, K., Gaudeul, M., Loe, G. & Ågren, J. Gene, phenotype and function: GLABROUS1 and resistance to herbivory in natural populations of *Arabidopsis lyrata*. *Molecular Ecology* 16(2): 453-462.
- Knuuttila, M., Vatanen, E. & Jansik, C. Finnish food industry in 1989-2002: an output-oriented input-output analysis. *Acta Agriculturae Scandinavica, Section C: Food Economics* 4(4): 217-228.

Koivisto, E., Huitu, O. & Korpimäki, E. Smaller *Microtus* vole species competitively superior in the absence of predators. *Oikos* 116(1): 156-162.

Konijnendijk, C.C., Busse Nielsen, A., Schipperijn, J., Rosenblad, Y., Sander, H., Sarv, M., Mäkinen, K., Tyrväinen, L., Donis, J., Gundersen, V., Åkerlund, U. & Gustavsson, R. Assessment of urban forestry research and research needs in Nordic and Baltic countries. *Urban Forestry & Urban Greening* 6(4): 297-309.

Konijnendijk, C.C., Thorsen, B.J., Tyrväinen, L., Anthon, S., Rahim Nik, A., Norini, H. & Abd. Ghani, A.N. The right forest for the right city: Decision-support for land-use planning through assessment of multiple forest benefits. *Allgemeine Forst- und Jagdzeitung* 178(4): 74-84.

Kontinen, K., Luoranen, J. & Rikala, R. Growth and frost hardening of *Picea abies* seedlings after various night length treatments. *Baltic Forestry* 13(2): 140-148.

Kontunen-Soppela, S., Ossipov, V., Ossipova, S. & Oksanen, E. Shift in birch leaf metabolome and carbon allocation during long-term open-field ozone exposure. *Global Change Biology* 13(5): 1053-1067.

Korhonen, L., Korhonen, K.T., Stenberg, P., Maltamo, M. & Rautiainen, M. Local models for forest canopy cover with beta regression. *Silva Fennica* 41(4): 671-685.

Korkalainen, T., Laurén, A. & Kokkonen, T. A GIS-based analysis of catchment properties within a drumlin field. *Boreal Environment Research* 12: 489-500.

Korkama, T., Fritze, H., Kiikkilä, O. & Pennanen, T. Do same-aged but different height Norway spruce (*Picea abies*) clones affect soil microbial community? *Soil Biology & Biochemistry* 39(9): 2420-2423.

Korkama, T., Fritze, H., Pakkanen, A. & Pennanen, T. Interactions between extraradical ectomycorrhizal mycelia, microbes associated with the mycelia and growth rate of Norway spruce (*Picea abies*) clones. *New Phytologist* 173: 798-807.

Koutaniemi, S., Warinowski, T., Kärkönen, A., Alatalo, E., Fossdal, C.G., Saranpää, P., Laakso, T., Fagerstedt, K.V., Simola, L.K., Paulin, L., Rudd, S. & Teeri, T.H. Expression profiling of the lignin biosynthetic pathway in Norway spruce using EST sequencing and real-time RT-PCR. *Plant Molecular Biology* 65(3): 311-328.

Kuikka, K., Rautio, P. & Markkola, A.-M. Carbon availability and mycorrhizal symbiosis of boreal forest trees in a changing environment. *Julkaisussa: Taulavuori, E. & Taulavuori, K. (eds.). Physiology of Northern Plants Under Changing Environment. Research Signpost. Kerala. s. 227-239.*

Kutzbach, L., Schneider, J., Sachs, T., Giebels, M., Nykänen, H., Shurpali, N.J., Martikainen, P.J., Alm, J. & Wilmking, M. CO<sub>2</sub> flux determination by closed-chamber methods can be seriously biased by inappropriate application of linear regression. *Biogeosciences* 4: 1005-1025.

Laakkonen, J., Kallio-Kokko, H., Vapalahti, O., Vaheri, A., Vyskocilová, M., Munclinger, P., Macholán, M. & Henttonen, H. The screening of parasites and viral pathogens of small mammals

from a farm in southern Finland, and genetic identification of the Finnish house mouse, *Mus musculus*. *Annales Zoologici Fennici* 44: 202-208.

Laitila, J., Asikainen, A. & Nuutinen, Y. Forwarding of whole trees after manual and mechanized felling bunching in pre-commercial thinnings. *International Journal of Forest Engineering* 18(2): 29-39.

Latva-Karjanmaa, T., Penttilä, R. & Siitonen, J. The demographic structure of European aspen (*Populus tremula*) populations in managed and old-growth boreal forests in eastern Finland. *Canadian Journal of Forest Research* 37: 1070-1081.

Laurén, A., Koivusalo, H., Ahtikoski, A., Kokkonen, T. & Finér, L. Water protection and buffer zones: How much does it cost to reduce nitrogen load in a forest cutting? *Scandinavian Journal of Forest Research* 22(6): 537-544.

Lehtonen, A., Cienciala, E., Tatarinov, F. & Mäkipää, R. Uncertainty estimation of biomass expansion factors for Norway spruce in the Czech Republic. *Annals of Forest Science* 64(2): 133-140.

Leskinen, P. Comparison of alternative scoring techniques when assessing decision maker's multi-objective preferences in natural resource management. *Journal of Environmental Management* 85: 363-370.

Lilja, A., Luoranen, J., Rikala, R. & Heinonen, R. The effects of calcium on stem lesions of silver birch seedlings. *Forest Pathology* 37: 96-104.

Lilja, A., Rytönen, A., Kokkola, M., Parikka, P. & Hantula, J. 2007. First report of *Phytophthora ramorum* and *P. inflata* in ornamental rhododendrons in Finland. *Plant Disease* 91(8): 1055.

Lindner, M. & Karjalainen, T. Carbon inventory methods and carbon mitigation potentials of forests in Europe: a short review of recent progress. *European Journal of Forest Research* 126: 149-156.

Lindroos, A.-J., Derome, J., Raitio, H. & Rautio, P. Heavy metal concentrations in soil solution, soil and needles in a Norway spruce stand on an acid sulphate forest soil. *Water, Air, and Soil Pollution* 180(1): 155-170.

Loader, N.J., McCarroll, D., Gagen, M.H., Robertson, I. & Jalkanen, R. Extracting climatic information from stable isotopes in tree rings. *Julkaisussa: Dawson, T. & Siegwolf, R. (eds.). Stable isotopes as indicators of ecological change. Terrestrial Ecology Series. Elsevier/Academic Press. Amsterdam. s. 27-48.*

Lohila, A., Laurila, T., Aro, L., Aurela, M., Tuovinen, J.-P., Laine, J., Kolari, P. & Minkkinen, K. Carbon dioxide exchange above a 30-year-old Scots pine plantation established on organic-soil cropland. *Boreal Environment Research* 12(2): 141-157.

Luoranen, J., Helenius, P., Huttunen, L. & Rikala, R. Short-day treatment enhances root egress of summer-planted *Picea abies* seedlings under dry conditions. *Scandinavian Journal of Forest Research* 22(5): 384-389.

- Lähtinen, K. Linking resource-based view with business economics of woodworking industry: earlier findings and future insights. *Silva Fennica* 41(1): 149-165.
- Malaty, R., Toppinen, A. & Viitanen, J. Modelling and forecasting Finnish pine sawlog stumpage prices using alternative time-series methods. *Canadian Journal of Forest Research* 37(1): 178-187.
- Malinen, J., Kilpeläinen, H., Piira, T., Redsvén, V., Wall, T. & Nuutinen, T. Comparing model-based approaches with bucking simulation-based approach in the prediction of timber assortment recovery. *Forestry* 80(3): 309-321.
- Maljanen, M., Hytönen, J., Mäkiranta, P., Alm, J., Minkkinen, K., Laine, J. & Martikainen, P.J. Greenhouse gas emissions from cultivated and abandoned organic croplands in Finland. *Boreal Environment Research* 12(2): 133-140.
- Martz, F., Sutinen, M.-L., Derome, K., Wingsle, G., Julkunen-Tiitto, R. & Turunen, M. Effects of ultraviolet (UV) exclusion on the seasonal concentration of photosynthetic and UV-screening pigments in Scots pine needles. *Global Change Biology* 13: 252-265.
- Mattila, U. & Nuutinen, T. Assessing the incidence of butt rot in Norway spruce in southern Finland. *Silva Fennica* 41(1): 29-43.
- McRoberts, R., Tomppo, E.O., Finley, A.O. & Heikkinen, J. Estimating areal means and variances of forest attributes using the k-Nearest Neighbors technique and satellite imagery. *Remote Sensing of Environment* 111: 466-480.
- McRoberts, R.E. & Tomppo, E.O. Remote sensing support for national forest inventories. *Remote Sensing of Environment* 110: 412-419.
- Minkkinen, K., Laine, J., Shurpali, N.J., Mäkiranta, P., Alm, J. & Penttilä, T. Heterotrophic soil respiration in forestry-drained peatlands. *Boreal Environment Research* 12(2): 115-126.
- Minkkinen, K., Penttilä, T. & Laine, J. Tree stand volume as a scalar for methane fluxes in forestry-drained peatlands in Finland. *Boreal Environment Research* 12(2): 127-132.
- Monni, S., Peltoniemi, M., Palosuo, T., Lehtonen, A., Mäkipää, R. & Savolainen, I. Uncertainty of forest carbon stock changes - implications to the total uncertainty of GHG inventory of Finland. *Climatic Change* 81: 391-413.
- Mutanen, A. & Toppinen, A. Price dynamics in the Russian-Finnish roundwood trade. *Scandinavian Journal of Forest Research* 22(1): 71-80.
- Muukkonen, P. & Heiskanen, J. Biomass estimation over a large area based on standwise forest inventory data and ASTER and MODIS satellite data: A possibility to verify carbon inventories. *Remote Sensing of Environment* 107(4): 617-624.
- Mäkinen, H., Hallaksela, A.-M. & Isomäki, A. Increment and decay in Norway spruce and Scots pine after artificial logging damage. *Canadian Journal of Forest Research* 37: 2130-2141.
- Mäkinen, H., Jaakkola, T., Piispanen, R. & Saranpää, P. Predicting wood and tracheid properties of Norway spruce. *Forest Ecology and Management* 241: 175-188.

Mäkiranta, P., Hytönen, J., Aro, L., Maljanen, M., Pihlatie, M., Potila, H., Shurpali, N.J., Laine, J., Lohila, A., Martikainen, P.J. & Minkkinen, K. Soil greenhouse gas emissions from afforested organic soil croplands and cutaway peatlands. *Boreal Environment Research* 12(2): 159-175.

Männistö, M., Tirola, M. & Häggblom, M. Bacterial communities in Arctic fjelds of Finnish Lapland are stable but highly pH-dependent. *FEMS Microbiology Ecology* 59(2): 452-465.

Müller, M.M., Heinonen, J. & Korhonen, K. Occurrence of *Heterobasidion* basidiocarps on cull pieces of Norway spruce left on cutting areas and in mature spruce stands. *Forest Pathology* 37: 374-386.

Müller, M.M., Valjakka, R. & Hantula, J. Genetic diversity of *Lophodermium piceae* in South Finland. *Forest Pathology* 37(5): 329-337.

Nabuurs, G.J. et al. (17 kirjoittajaa, Metlasta Karjalainen, T.). *Forestry*. Julkaisussa: Metz, B., Davidson, O.R., Bosch, P.R., Dave, R. & Meyer, L.A. (eds.). *Climate Change 2007: Mitigation. Contribution of Working Group III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge University Press. Cambridge and New York. s. 541-584.

Neuvonen, M., Sievänen, T., Tönnies, S. & Koskela, T. Access to green areas and the frequency of visits - A case study in Helsinki. *Urban Forestry & Urban Greening* 6(4): 235-247.

Niemelä, M., Piispanen, J., Poikolainen, J. & Perämäki, P. Preliminary study of the use of terrestrial moss (*Pleurozium schreberi*) for biomonitoring traffic-related Pt and Rh deposition. *Archives of Environmental Contamination and Toxicology* 52(3): 347-354.

Niemi, K., Julkunen-Tiitto, R., Häggman, H. & Sarjala, T. *Suillus variegatus* causes significant changes in the content of individual polyamines and flavonoids in Scots pine seedlings during mycorrhiza formation in vitro. *Journal of Experimental Botany* 58: 391-401.

Niemi, K., Sarjala, T., Chen, X. & Häggman, H. Spermidine and the ectomycorrhizal fungus *Pisolithus tinctorius* synergistically induce maturation of Scots pine embryogenic cultures. *Journal of Plant Physiology* 164: 629-635.

Niemi, R.M., Vepsäläinen, M., Erkomaa, K. & Ilvesniemi, H. Microbial activity during summer in humus layer under *Pinus sylvestris* and *Alnus incana*. *Forest Ecology and Management* 242: 314-323.

Nieminen, M., Moilanen, M. & Piirainen, S. Phosphorus allocation in surface soil of two drained peatland forests following wood and peat ash application - Why effective adsorption on low sorptive soils? *Silva Fennica* 41(3): 395-407.

Niskanen, A. & Karppinen, H. (eds.). *Forest entrepreneurship in Europe*. *Small-Scale Forestry* 6(4): 329-456.

Nurmi, J. Recovery of logging residues for energy from spruce (*Picea abies*) dominated stands. *Biomass & Bioenergy* 31(6): 375-380.

Nurmi, J. & Hillebrand, K. The characteristics of whole-tree fuel stocks from silvicultural cleanings and thinnings. *Biomass & Bioenergy* 31(6): 381-392.

Nurminen, T. & Heinonen, J. Characteristics and time consumption of timber trucking in Finland. *Silva Fennica* 41(3): 471-487.

Ní Dhubháin, A., Cobanova, R., Karppinen, H., Mizaraite, D., Ritter, E., Slee, B. & Wall, S. The values and objectives of private forest owners and their influence on forestry behaviour: The implications for entrepreneurship. *Julkaisussa: Niskanen, A. & Karppinen, H. (eds.). Forest entrepreneurship in Europe. Small-Scale Forestry* 6(4): 347-357.

Ohashi, M., Finér, L., Domisch, T., Risch, A.C., Jurgensen, M.F. & Niemelä, P. Diurnal and seasonal variation in CO<sub>2</sub> efflux from ant mounds and forest floor. *Soil Biology & Biochemistry* 39: 1504-1511.

Ohashi, M., Kilpeläinen, J., Finér, L., Risch, A.C., Domisch, T., Neuvonen, S. & Niemelä, P. The effect of red wood ant (*Formica rufa* group) mounds on root biomass, density, and nutrient concentrations in boreal managed forests. *Journal of Forest Research* 12: 113-119.

Oksanen, E., Kontunen-Soppela, S., Riikonen, J., Peltonen, P., Uddling, J. & Vapaavuori, E. Northern environment predisposes birches to ozone damage. *Plant Biology* 9: 191-196.

Ostonen, I., Lõhmus, K., Helmisaari, H.-S., Truu, J. & Meel, S. Fine root morphological adaptations in Scots pine, Norway spruce and silver birch along a latitudinal gradient in boreal forests. *Tree Physiology* 27: 1627-1634.

Painter, J.N., Siitonen, J. & Hanski, I. Phylogeographical patterns and genetic diversity in three species of Eurasian boreal forest beetles. *Biological Journal of the Linnean Society* 91: 267-279.

Palviainen, M., Finér, L., Laurén, A., Mannerkoski, H., Piirainen, S. & Starr, M. Development of ground vegetation biomass and nutrient pools in a clear-cut disc-plowed boreal forest. *Plant and Soil* 297: 43-52.

Parviainen, J., Bozzano, M., Estreguil, C., Koskela, J., Lier, M., Vogt, P. & Ostapowicz, K. Maintenance, conservation and appropriate enhancement of biological diversity in forest ecosystems. *Julkaisussa: Köhl, M. & Rametsteiner, E. (eds.). State of Europe's Forests 2007 - the MCPFE report on sustainable forest management in Europe. Ministerial Conference on the Protection of Forests in Europe, Liaison Unit. Warsaw. s. 45-72.*

Peltola, H., Kilpeläinen, A., Sauvala, K., Räisänen, T. & Ikonen, V.-P. Effects of early thinning regime and tree status on the radial growth and wood density of Scots pine. *Silva Fennica* 41(3): 489-505.

Peltoniemi, M., Heikkinen, J. & Mäkipää, R. Stratification of regional sampling by model-predicted changes of carbon stocks in forested mineral soils. *Silva Fennica* 41(3): 527-539.

Peltoniemi, M., Thürig, E., Ogle, S., Palosuo, T., Schrump, M., Wutzler, T., Butterbach-Bahl, K., Chertov, O., Komarov, A., Mikhailov, A., Gärdenäs, A., Perry, C., Liski, J., Smith, P. & Mäkipää, R. Models in country scale carbon accounting of forest soils. *Silva Fennica* 41(3): 575-602.

Pensa, M., Jalkanen, R. & Liblik, V. Variation in Scots pine needle longevity and nutrient conservation in different habitats and latitudes. *Canadian Journal of Forest Research* 37(9): 1599-1604.

Peuhkurinen, J., Maltamo, M., Malinen, J., Pitkänen, J. & Packalén, P. Preharvest measurement of marked stands using airborne laser scanning. *Forest Science* 53(6): 653-661.

Peura, M., Kölln, K., Grottkopp, I., Saranpää, P., Müller, M. & Serimaa, R. The effect of axial strain on crystalline cellulose in Norway spruce. *Wood Science and Technology* 41: 565-583.

Pietikäinen, J., Tikka, P.J., Valkonen, S., Isomäki, A. & Fritze, H. Is the soil microbial community related to the basal area of trees in a Scots pine stand? *Soil Biology & Biochemistry* 39: 1832-1834.

Pietiläinen, P., Hartman, M. & Moilanen, M. Nitrogen and Scots pine on drained peatlands. *Julkaisussa: Taulavuori, E. & Taulavuori, K. (eds.). Physiology of Northern Plants Under Changing Environment. Research Signpost. Kerala. s. 255-269.*

Pihlajaniemi, H., Siuruainen, M., Rautio, P., Laine, K., Peteri, S.-L. & Huttunen, S. Successful growth of micro-propagated ornamental tree forms in northern Finland. *Dendrobiology* 57: 61-71.

Pihlatie, M., Pumpanen, J., Rinne, J., Ilvesniemi, H., Simojoki, A., Hari, P. & Vesala, T. Gas concentration driven fluxes of nitrous oxide and carbon dioxide in boreal forest soil. *Tellus Series B: Chemical and Physical Meteorology* 59: 458-469.

Piirainen, S., Finér, L., Mannerkoski, H. & Starr, M. Carbon, nitrogen and phosphorus leaching after site preparation at a boreal forest clear-cut area. *Forest Ecology and Management* 243: 10-18.

Piri, T. & Korhonen, K. Spatial distribution and persistence of *Heterobasidion parviporum* genets on a Norway spruce site. *Forest Pathology* 37(1): 1-8.

Pykäläinen, J., Hiltunen, V. & Leskinen, P. Complementary use of voting methods and interactive utility analysis in participatory strategic forest planning: experiences gained from western Finland. *Canadian Journal of Forest Research* 37: 853-865.

Qin, G.-F., Zhao, J. & Korhonen, K. A study on intersterility groups of *Armillaria* in China. *Mycologia* 99: 430-441.

Radoglou, K., Cabral, R., Repo, T., Hasanagas N., Sutinen, M.-L. & Waisel, Y. Appraisal of root leakage as a method for estimation of root viability. *Plant Biosystems* 141(3): 443-459.

Raiskila, S., Pulkkinen, M., Laakso, T., Fagerstedt, K., Löija, M., Mahlberg, R., Paajanen, L., Ritschkoff, A.-C. & Saranpää, P. FTIR spectroscopic prediction of Klason and acid soluble lignin variation in Norway spruce cutting clones. *Silva Fennica* 41(2): 351-371.

Ranta, T., Lahtinen, P., Elo, J. & Laitila, J. The effect of CO<sub>2</sub> emission trade on the wood fuel market in Finland. *Biomass & Bioenergy* 31(8): 535-542.

Rautiainen, M., Suominen, J., Mottus, M., Stenberg, P., Voipio, P., Peltoniemi, J. & Manninen, T. Coupling forest canopy and understory reflectance in the Arctic latitudes of Finland. *Remote Sensing of Environment* 110: 332-343.

Rautio, P., Bergvall, U.A., Karonen, M. & Salminen, J.-P. Bitter problems in ecological feeding experiments: Commercial tannin preparations and common methods for tannin quantifications. *Biochemical Systematics & Ecology* 35: 257-262.

Repo, T., Sutinen, S., Nöjd, P. & Mäkinen, H. Implications of delayed soil thawing on trees: A case study of a *Picea abies* stand. *Scandinavian Journal of Forest Research* 22(2): 118-127.

Riikonen, J., Kets, K., Darbah, J., Oksanen, E., Sober, A., Vapaavuori, E., Kubiske, M.E., Nelson, N. & Karnosky, D.F. Carbon gain and bud physiology in *Populus tremuloides* and *Betula papyrifera* grown under long-term exposure to interacting elevated CO<sub>2</sub> and O<sub>3</sub>. *Tree Physiology* 28: 243-254.

Riutta, T., Laine, J. & Tuittila, E.-S. Sensitivity of CO<sub>2</sub> exchange of fen ecosystem components to water level variation. *Ecosystems* 10: 718-733.

Riutta, T., Laine, J., Aurela, M., Rinne, J., Vesala, T., Laurila, T., Haapanala, S., Pihlatie, M. & Tuittila, E.-S. Spatial variation in plant community functions regulates carbon gas dynamics in a boreal fen ecosystem. *Tellus Series B: Chemical and Physical Meteorology* 59: 838-852.

Rousi, M. & Heinonen, J. Temperature sum accumulation effects on within-population variation and long-term trends in date of bud burst of European white birch (*Betula pendula*). *Tree Physiology* 27(7): 1019-1025.

Rusanen, M. & Granholm, H. Finland's national strategy for adaptation to climate change. *Julkaisussa: Koskela, J., Buck, A. & Teissier du Cross, E. (eds.). Climate change and forest genetic diversity: Implications for sustainable forest management in Europe. Biodiversity International. Rome. s. 85-94.*

Ryynänen, L. & Aronen, T. Phenotypic expression of leaf variegation in two *Betula pendula* Roth genotypes following micropropagation, cryopreservation and grafting. *Propagation of Ornamental Plants* 7(1): 23-28.

Räisänen, M., Repo, T. & Lehto, T. Cold acclimation was partially impaired in boron deficient Norway spruce seedlings. *Plant and Soil* 292: 271-282.

Saarnio, S., Morero, M., Shurpali, N.J., Tuittila, E.-S., Mäkilä, M. & Alm, J. Annual CO<sub>2</sub> and CH<sub>4</sub> fluxes of pristine boreal mires as a background for the lifecycle analyses of peat energy. *Boreal Environment Research* 12(2): 101-113.

Saarsalmi, A. & Levula, T. Wood ash application and liming: Effects on soil chemical properties and growth of Scots pine transplants. *Baltic Forestry* 13(2): 149-157.

Saarsalmi, A., Starr, M., Hokkanen, T., Ukonmaanaho, L., Kukkola, M., Nöjd, P. & Sievänen, R. Predicting annual canopy litterfall production for Norway spruce (*Picea abies* (L.) Karst.) stands. *Forest Ecology and Management* 242(2-3): 578-586.

Saksa, T. & Miina, J. Cleaning methods in planted Scots pine stands in southern Finland: 4-year results on survival, growth and whipping damage of pines. *Silva Fennica* 41(4): 661-670.

Salminen, H. & Jalkanen, R. Intra-annual height increment of *Pinus sylvestris* at high latitudes in Finland. *Tree Physiology* 27(9): 1347-1353.

Sarjala, T., Niemi, K. & Jokela, A. Polyamines in the responses of boreal trees to environmental stress and symbiotic fungi. *Julkaisussa: Taulavuori, E. & Taulavuori, K. (eds.). Physiology of Northern Plants Under Changing Environment. Research Signpost. Kerala. s. 241-254.*

Savolainen, O., Bokma, F., Knürr, T., Kärkkäinen, K., Pyhäjärvi, T. & Wachowiak, W. Adaptation of forest trees to climate change. Julkaisussa: Koskela, J., Buck, A. & Teissier du Cross, E. (eds.). Climate change and forest genetic diversity: Implications for sustainable forest management in Europe. Biodiversity International. Rome. s. 19-29.

Selby, A., Koskela, T. & Petäjistö, L. Evidence of lay and professional forest-based development discourses in three contrasting regions of Finland. *Forest Policy and Economics* 9: 633-646.

Seppälä, R. Global forest sector: Trends, threats and opportunities. Julkaisussa: Freer-Smith, P.H., Broadmeadow, M.S.J. & Lynch, J.M. (eds.). Forestry and climate change. CAB International. s. 25-30.

Sidoroff, K., Kuuluvainen, T., Tanskanen, H. & Vanha-Majamaa, I. Tree mortality after low-intensity prescribed fires in managed *Pinus sylvestris* stands in southern Finland. *Scandinavian Journal of Forest Research* 22(1): 2-12.

Sievänen, T., Pouta, E. & Neuvonen, M. Recreational home users - Potential clients for countryside tourism? *Scandinavian Journal of Hospitality and Tourism* 7(3): 223-242.

Siipilehto, J., Sarkkola, S. & Mehtätalo, L. Comparing regression estimation techniques when predicting diameter distribution of Scots pine on drained peatlands. *Silva Fennica* 41(2): 333-349.

Silfver, T., Mikola, J., Rousi, M., Roininen, H. & Oksanen, E. Leaf litter decomposition differs among genotypes in a local *Betula pendula* population. *Oecologia* 152: 707-714.

Sipponen, A., Rautio, M., Jokinen, J.J., Laakso, T., Saranpää, P. & Lohi, J. Resin-salve from Norway spruce - a potential method to treat infected chronic skin ulcers? *Drug Metabolism Letters* 1(2): 143-145.

Smolander, A. & Heiskanen, J. Soil N and C transformations in two forest clear-cuts during three years after mounding and inverting. *Canadian Journal of Soil Science* 87: 251-258.

Somogyi, Z., Cienciala, E., Mäkipää, R., Lehtonen, A., Muukkonen, P. & Weiss, P. Indirect methods of large-scale forest biomass estimation. *European Journal of Forest Research* 126(2): 197-207.

Stark, S., Julkunen-Tiitto, R. & Kumpula, J. Ecological role of reindeer summer browsing in the mountain birch (*Betula pubescens* ssp. *czerepanovii*) forests: effects on plant defense, litter decomposition, and soil nutrient cycling. *Oecologia* 151: 486-498.

Stark, S., Kytöviita, M.-M. & Neumann, A.B. The phenolic compounds in *Cladonia* lichens are not antimicrobial in soils. *Oecologia* 152: 299-306.

Starr, M., Ukonmaanaho, L., Sibley, P.K., Hazlett, P.W. & Gordon, A.M. Deposition in boreal forests in relation to type, size, number and placement of collectors. *Environmental Monitoring and Assessment* 125: 123-136.

Steffenrem, A., Saranpää, P., Lundqvist, S.-O. & Skroepa, T. Variation in wood properties among five full-sib families of Norway spruce (*Picea abies*). *Annals of Forest Science* 64: 799-806.

Stupak, I. et al. (29 kirjoittajaa, Metlasta Asikainen, A., Pasanen, K., Röser, D., Saarsalmi, A., Helmisaari, H.-S., Kukkola, M. & Tamminen, P.). Sustainable utilisation of forest biomass for energy - Possibilities and problems: Policy, legislation, certification, and recommendations and guidelines in the Nordic, Baltic, and other European countries. *Biomass & Bioenergy* 31(10): 666-684.

Sulkava, M., Luysaert, S., Rautio, P., Janssens, I.A. & Hollmén, J. Modeling the effects of varying data quality on trend detection in environmental monitoring. *Ecological Informatics* 2: 167-176.

Sutinen, M.-L. Lipid changes during cold acclimation and de-acclimation of herbaceous and woody species. Julkaisussa: Taulavuori, E. & Taulavuori, K. (eds.). *Physiology of Northern Plants Under Changing Environment*. Research Signpost. Kerala. p. 19-37.

Sutinen, R., Kuoppamaa, M., Hyvönen, E., Hänninen, P., Middleton, M., Päänttjä, M., Teirilä, A. & Sutinen, M.-L. Geological controls on conifer distributions and their implications for forest management in Finnish Lapland. *Scandinavian Journal of Forest Research* 22(6): 476-487.

Sutinen, R., Middleton, M., Hänninen, P., Vartiainen, S., Venäläinen, A. & Sutinen, M.-L. Dielectric constant time stability of glacial till at a clear-cut site. *Geoderma* 141(3-4): 311-319.

Sutinen, S., Aphalo, P.J. & Lehto, T. Does timing of boron application affect needle and bud structure in Scots pine and Norway spruce seedlings? *Trees - Structure and Function* 21(6): 661-670.

Tanskanen, H., Granström, A., Larjavaara, M. & Puttonen, P. Experimental fire behaviour in managed *Pinus sylvestris* and *Picea abies* stands of Finland. *International Journal of Wildland Fire* 16: 414-425.

Tanskanen, N. & Ilvesniemi, H. Spatial distribution of fine roots at ploughed Norway spruce forest sites. *Silva Fennica* 41(1): 45-54.

Terho, M., Hantula, J. & Hallaksela, A.-M. Occurrence and decay patterns of common wood-decay fungi in hazardous trees felled in the Helsinki City. *Forest Pathology* 37(6): 420-432.

Tiimonen, H., Häggman, H., Tsai, C.-J., Chiang, V. & Aronen, T. The seasonal activity and the effect of mechanical bending and wounding on the PtCOMT promoter in *Betula pendula* Roth. *Plant Cell Reports* 26: 1205-1214.

Tobin, B., Cermák, J., Chiatante, D., Danjon, F., Di Iorio, A., Dupuy, L., Eshel, A., Jourdan, C., Kalliokoski, T., Laiho, R., Nadezhdina, N., Nicoll, B., Pagés, L., Silva, J. & Spanos, I. Modelling tree root systems - from simple biomass models towards developmental modelling. *Plant Biosystems* 141(3): 481-501.

Tokola, T., LeToan T., v. Poncet, F., Tuominen, S. & Holopainen, M. Forest reconnaissance surveys: Comparison of estimates based on simulated TerraSAR, and optical data. *Photogrammetric Journal of Finland* 20(2): 64-79.

Toppinen, A., Toivonen, R., Mutanen, A., Goltsev, V. & Tatti, N. Sources of competitive advantage in woodworking firms of Northwest Russia. *International Journal of Emerging Markets* 2: 383-394.

Trân, J.K., Ylioja, T., Billings, R.F., Régnière, J. & Ayres, M.P. Impact of minimum winter temperature on the population dynamics of *Dendroctonus frontalis*. *Ecological Applications* 17(3): 882-899.

Tuittila, E.-S., Väiliranta, M., Laine, J. & Korhola, A. Quantifying patterns and controls of mire vegetation succession in a southern boreal bog in Finland using partial ordinations. *Journal of Vegetation Science* 18: 891-902.

Tuulentie, S. Local participation as a prerequisite for socially sustainable tourism. Case studies from Ylläs and Levi ski resorts in northern Finland. *Julkaisussa: Jokimäki, J., Kaisanlahti-Jokimäki, M.-L., Tuulentie, S., Laine, K. & Uusitalo, M. (eds.). Environment, local society and sustainable tourism. Arctic Centre Reports 50: 75-88.*

Tuulentie, S. Settled tourists: Second homes as a part of tourist life stories. *Scandinavian Journal of Hospitality and Tourism* 7(3): 281-300.

Tuulentie, S. & Mettiäinen, I. Local participation in the evolution of ski resorts: the case of Ylläs and Levi in Finnish Lapland. *Forest, Snow and Landscape Research* 81(1/2): 207-222.

Tyrväinen, L., Mäkinen, K. & Schipperijn, J. Tools for mapping social values of urban woodlands and other green areas. *Landscape and Urban Planning* 79(1): 5-19.

Utriainen, J., Poikolainen, J., Piispanen, J. & Kubin, E. Stabilizing temperature and RH conditions in dry storage facilities. *Museum Management and Curatorship* 22(1): 79-90.

Uusivuori, J. & Laturi, J. Carbon rentals and silvicultural subsidies for private forests as climate policy instruments. *Canadian Journal of Forest Research* 37(12): 2541-2551.

Vanha-Majamaa, I., Lilja, S., Ryömä, R., Kotiaho, J., Laaka-Lindberg, S., Lindberg, H., Puttonen, P., Tamminen, P., Toivanen, T. & Kuuluvainen, T. Rehabilitating boreal forest structure and species composition in Finland through logging, dead wood creation and fire: The EVO experiment. *Forest Ecology and Management* 250: 77-88.

Vanhala, P., Karhu, K., Tuomi, M., Sonninen, E., Jungner, H., Fritze, H. & Liski, J. Old soil carbon is more temperature sensitive than young in an agricultural field. *Soil Biology & Biochemistry* 39: 2967-2970.

Veijalainen, A.-M., Juntunen, M.-L., Heiskanen, J. & Lilja, A. Growing *Picea abies* container seedlings in peat and composted forest-nursery waste mixtures for forest regeneration. *Scandinavian Journal of Forest Research* 22(5): 390-397.

Veijalainen, A.-M., Juntunen, M.-L., Lilja, A., Heinonen-Tanski, H. & Tervo, L. Forest nursery waste composting in windrows with or without horse manure or urea - the composting process and nutrient leaching. *Silva Fennica* 41(1): 13-27.

Veijalainen, A.-M., Juntunen, M.-L., Lilja, A. & Tervo, L. Composting of forest nursery waste and nutrient leaching. *Baltic Forestry* 13(1): 74-82.

Verkasalo, E., Heräjärvi, H., Arponen, J. & Toppinen, A. Perspectives of wood resources, industry competitiveness and wood product markets for birch industries in the Baltic Sea area. *Julkaisussa:*

Blanchet, P. (ed.). ISCHP '07 International Scientific Conference on Hardwood Processing, September 24-25-26, 2007, Quebec City, Canada. Proceedings. FP Innovations, Division Forintek, Quebec City. s. 29-35.

Viiri, H., Tuomainen, A. & Tervo, L. Persistence of deltamethrin against *Hylobius abietis* on Norway spruce seedlings. *Scandinavian Journal of Forest Research* 22(2): 128-135.

Väliranta, M., Korhola, A., Seppä, H., Tuittila, E.-S., Sarmaja-Korjonen, K., Laine, J. & Alm, J. High-resolution reconstruction of wetness dynamics in a southern boreal raised bog, Finland, during the late Holocene: a quantitative approach. *The Holocene* 17(8): 1093-1107.

Väänänen, R., Kenttämies, K., Nieminen, M. & Ilvesniemi, H. Phosphorus retention properties of forest humus layer in buffer zones and clear-cut areas in southern Finland. *Boreal Environment Research* 12: 601-609.

Wallenius, T.H., Lilja, S. & Kuuluvainen, T. Fire history and tree species composition in managed *Picea abies* stands in southern Finland: Implications for restoration. *Forest Ecology and Management* 250: 89-95.

Weiss, D.J., Rausch, N., Mason, T.F.D., Coles, B.J., Wilkinson, J.J., Ukonmaanaho, L., Arnold, T. & Nieminen, T.M. Atmospheric deposition and isotope biogeochemistry of zinc in ombrotrophic peat. *Geochimica et Cosmochimica Acta* 71: 3498-3517.

Wilson, D., Alm, J., Riutta, T., Laine, J., Byrne, K.A., Farrell, E.P. & Tuittila, E.-S. A high resolution green area index for modelling the seasonal dynamics of CO<sub>2</sub> exchange in vascular plant peatland communities. *Plant Ecology* 190: 37-51.

Wilson, D., Tuittila, E.-S., Alm, J., Laine, J., Farrell, E.P. & Byrne, K.A. Carbon dioxide dynamics of a restored maritime peatland. *Ecoscience* 14(1): 71-80.

Yli-Petäys, M., Laine, J., Vasander, H. & Tuittila, E.-S. Carbon gas exchange of a re-vegetated cut-away peatland five decades after abandonment. *Boreal Environment Research* 12(2): 177-190.

Zhang, G., Luoranen, J. & Smolander, H. Short-day treatment during the growing period limits shoot growth and increases frost hardiness of hybrid aspen plants in the nursery. *Forestry Studies in China* 9(4): 262-266.

von Gadow, K., Kurttila, M., Leskinen, P., Leskinen, L., Nuutinen, T. & Pukkala, T. Designing forested landscapes to provide multiple services. *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources* 2(38). 15 s.

Kansalliset referoidut julkaisut vuonna 2007

Helle, T., Kojola, I. & Niva, A. Ylä-Lapin porojen talvilaitumet: kolme näkökulmaa ylilaidunnukseen. *Metsätieteen aikakauskirja* 3/2007: 253-266.

Henttonen, H., Mela, M., Niemimaa, J. & Kaikusalo, A. Naalikannan tilanne ja suojele Suomessa ja Fennoskandiassa. Summary: Arctic fox in Finland and Fennoscandia: status and conservation. Suomen Riista 54: 15-24.

Hyvönen, P. The updating of forest resource data for management planning for privately owned forests in Finland. Dissertations Forestales 38. 40 s. + 5 osajulkaisua.

Hyvönen, P., Pekkarinen, A. & Tuominen, S. Ilmakuvasegmentteihin perustuvan kaksivaiheisen otannan luotettavuus puustotunnusten ei-parametrisessa estimoinnissa. Metsätieteen aikakauskirja 1/2007: 39-53.

Hyytiäinen, K., Hannelius, S. & Salminen, O. Yksityismetsien arvo tuottoarvolaskelmien ja markkina-arvojen mukaan. Maanmittaus 82(2): 28-44.

Hänninen, H., Karppinen, H. & Suihkonen, V. Yksityismetsien puunmyyntitulojen alueittainen jakautuminen. Metsätieteen aikakauskirja 3/2007: 267-278.

Kapitsa, E., Shorohova, E. & Vanha-Majamaa, I. Fragmentation and decomposition of stumps after clear cutting in southern European boreal spruce forests of Myrtillus type (venäjänkielinen, englanninkielinen tiivistelmä). Julkaisussa: Egorov, A. & Tchernov, I. (eds.). Modern problems and perspectives of sustainable forest management. Proceedings of St. Petersburg State Forest Technical Academy. November 15-16, 2006. SPb, FTA. s. 54-60.

Korkalainen, T., Pietiläinen, P. & Colpaert, A. The effect of total peat nitrogen on the height and volume of Scots pine (*Pinus sylvestris* L.) stands in three fertilized and drained peatlands in northern Finland. Suo - Mires and Peat 58(3-4): 75-86.

Leskinen, L.A. Kestävyyden tulkinnat metsäkeskusten yhteistoiminnallisissa käytännöissä. Tampereen yliopisto, Yhdyskuntatieteiden laitos. Dissertations Forestales 44. 62 s. + 5 osajulkaisua.

Lähtinen, K., Selby, A. & Petäjistö, L. Puu- ja hirsitaloteollisuusyritysten markkina-alue-, tuote- ja asiakasvalintoihin perustuvat kokonaisstrategiat. Metsätieteen aikakauskirja 4/2007: 355-371.

Ogurtsov, M., Jungner, H. & Lindholm, M. A potential century-scale rhythm in six major paleoclimatic records in the Northern Hemisphere. Geografiska Annaler 89 A(2): 129-136.

Penttinen, M. Portfolio management and the competitiveness of forest ownership. Dissertations Forestales 43. 48 s. + 5 osajulkaisua.

Pesonen, A., Korhonen, K.T., Tuominen, S., Maltamo, M. & Lukkarinen, E. Taimikonhoitotarpeen arviointi valtakunnan metsien inventoinnin metsävarakartan pohjalta. Metsätieteen aikakauskirja 2/2007: 77-86.

Petäjistö, L. & Selby, A. Metsänomistajien arvot ja näkemykset hirvikannan säätelyssä. Metsätieteen aikakauskirja 4/2007: 341-354.

Piira, T., Kilpeläinen, H., Malinen, J., Wall, T. & Verkasalo, E. Leimikon puutavaralajikertymän ja myyntiarvon vaihtelu erilaisilla katkantaohjeilla. Metsätieteen aikakauskirja 1/2007: 19-37.

Sievänen, R., Kareinen, T., Hirvelä, H. & Ilvesniemi, H. Hakkuumahdollisuusarvioihin perustuvat metsien kasvihuonekaasutaseet. *Metsätieteen aikakauskirja* 4/2007: 329-339.

Silfverberg, K., Issakainen, J. & Haikarainen, T. Mäntypuustojen runkotilavuus ja ravinnetila ojitusalueiden tehoviljelykokeilla. Stem volume and nutrient status of Scots pine stands in intensive cultivation experiments on drained peatlands. *Suo - Mires and Peat* 58(2): 49-62.

Surakka, H. & Sirén, M. Poimintahakkuiden puunkorjuun nykytietämys ja tutkimustarpeet. *Metsätieteen aikakauskirja* 4/2007: 373-390.

Tuominen, S. Estimation of local forest attributes, utilizing two-phase sampling and auxiliary data. *Dissertationes Forestales* 41. 46 s. + 5 osajulkaisua.

Tuominen, S. & Pekkarinen, A. Kuvioraja-aineiston virheiden korjaaminen numeeristen ortoilmakuvien ja automaattisen segmentoinnin avulla. *Metsätieteen aikakauskirja* 2/2007: 87-100.

Turtiainen, M., Salo, K. & Saastamoinen, O. Mustikan ja puolukan marjasatojen valtakunnalliset ja alueelliset kokonaisestimaatit Suomen suometsissä. National and regional estimates of blueberry (*Vaccinium myrtillus* L.) and lingonberry (*V. vitis-idaea* L.) yields on peatlands in Finland. *Suo - Mires and Peat* 58(3-4): 87-98.