# Anders Lindroth

List of Publications by Year
in descending order

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|---|---|---|---|
| 186 papers | 19,744 citations | 16411 64 h-index | 12233 133 g-index |
| 211 all docs | 211 docs citations | 211 times ranked | 15982 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Terrestrial Gross Carbon Dioxide Uptake: Global Distribution and Covariation with Climate. Science, 2010, 329, 834-838. | 6.0 | 2,056 |
| 2 | Respiration as the main determinant of carbon balance in European forests. Nature, 2000, 404, 861-865. | 13.7 | 1,438 |
| 3 | Global patterns of land-atmosphere fluxes of carbon dioxide, latent heat, and sensible heat derived from eddy covariance, satellite, and meteorological observations. Journal of Geophysical Research, 2011, 116, . | 3.3 | 933 |
| 4 | Net carbon dioxide losses of northern ecosystems in response to autumn warming. Nature, 2008, 451, 49-52. | 13.7 | 930 |
| 5 | The human footprint in the carbon cycle of temperate and boreal forests. Nature, 2007, 447, 849-851. | 13.7 | 868 |
| 6 | CO<sub>2</sub> balance of boreal, temperate, and tropical forests derived from a global database. Global Change Biology, 2007, 13, 2509-2537. | 4.2 | 863 |
| 7 | Productivity overshadows temperature in determining soil and ecosystem respiration across European forests. Global Change Biology, 2001, 7, 269-278. | 4.2 | 843 |
| 8 | The likely impact of elevated [CO 2 ], nitrogen deposition, increased temperature and management on carbon sequestration in temperate and boreal forest ecosystems: a literature review. New Phytologist, 2007, 173, 463-480. | 3.5 | 579 |
| 9 | Evidence for soil water control on carbon and water dynamics in European forests during the extremely dry year: 2003. Agricultural and Forest Meteorology, 2007, 143, 123-145. | 1.9 | 509 |
| 10 | Comparison of different chamber techniques for measuring soil CO2 efflux. Agricultural and Forest Meteorology, 2004, 123, 159-176. | 1.9 | 420 |
| 11 | Longâ€term measurements of boreal forest carbon balance reveal large temperature sensitivity. Global Change Biology, 1998, 4, 443-450. | 4.2 | 327 |
| 12 | Contemporary carbon accumulation in a boreal oligotrophic minerogenic mire â€“ a significant sink after accounting for all Câ€fluxes. Global Change Biology, 2008, 14, 2317-2332. | 4.2 | 299 |
| 13 | Air temperature triggers the recovery of evergreen boreal forest photosynthesis in spring. Global Change Biology, 2003, 9, 1410-1426. | 4.2 | 273 |
| 14 | Assimilation exceeds respiration sensitivity to drought: A FLUXNET synthesis. Global Change Biology, 2010, 16, 657-670. | 4.2 | 238 |
| 15 | Determinants of terrestrial ecosystem carbon balance inferred from European eddy covariance flux sites. Geophysical Research Letters, 2007, 34, . | 1.5 | 223 |
| 16 | Past, Present, and Future Controls on Levels of Persistent Organic Pollutants in the Global Environment. Environmental Science & Technology, 2010, 44, 6526-6531. | 4.6 | 214 |
| 17 | Storms can cause Europeâ€wide reduction in forest carbon sink. Global Change Biology, 2009, 15, 346-355. | 4.2 | 178 |
| 18 | Energy partitioning between latent and sensible heat flux during the warm season at FLUXNET sites. Water Resources Research, 2002, 38, 30-1-30-11. | 1.7 | 169 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Transpiration response to soil moisture in pine and spruce trees in Sweden. Agricultural and Forest Meteorology, 2002, 112, 67-85. | 1.9 | 154 |
| 20 | Variability in exchange of CO<sub>2</sub> across 12 northern peatland and tundra sites. Global Change Biology, 2010, 16, 2436-2448. | 4.2 | 144 |
| 21 | Climate control of terrestrial carbon exchange across biomes and continents. Environmental Research Letters, 2010, 5, 034007. | 2.2 | 137 |
| 22 | Comparison of horizontal and vertical advective CO2 fluxes at three forest sites. Agricultural and Forest Meteorology, 2008, 148, 12-24. | 1.9 | 136 |
| 23 | Assessing parameter variability in a photosynthesis model within and between plant functional types using global Fluxnet eddy covariance data. Agricultural and Forest Meteorology, 2011, 151, 22-38. | 1.9 | 135 |
| 24 | Developing an empirical model of stand GPP with the LUE approach: analysis of eddy covariance data at five contrasting conifer sites in Europe. Global Change Biology, 2008, 14, 92-108. | 4.2 | 132 |
| 25 | Flux-profile relationships over a boreal forest â€" roughness sublayer corrections. Agricultural and Forest Meteorology, 1999, 98-99, 645-658. | 1.9 | 128 |
| 26 | Direct advection measurements do not help to solve the night-time CO2 closure problem: Evidence from three different forests. Agricultural and Forest Meteorology, 2010, 150, 655-664. | 1.9 | 126 |
| 27 | Assessment of regional willow coppice yield in Sweden on basis of water availability. Forest Ecology and Management, 1999, 121, 57-65. | 1.4 | 122 |
| 28 | Heat storage in forest biomass improves energy balance closure. Biogeosciences, 2010, 7, 301-313. | 1.3 | 120 |
| 29 | CO2 exchange at the floor of a boreal forest. Agricultural and Forest Meteorology, 2000, 101, 1-14. | 1.9 | 119 |
| 30 | Evaporation components of a boreal forest: variations during the growing season. Journal of Hydrology, 1997, 197, 70-87. | 2.3 | 114 |
| 31 | Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. New Phytologist, 2012, 194, 775-783. | 3.5 | 111 |
| 32 | Eddy-correlation system for long-term monitoring of fluxes of heat, water vapour and CO2. Global Change Biology, 1996, 2, 297-307. | 4.2 | 109 |
| 33 | Errors in Net Radiometry: Comparison and Evaluation of Six Radiometer Designs. Journal of Atmospheric and Oceanic Technology, 1992, 9, 762-783. | 0.5 | 106 |
| 34 | Increasing contribution of peatlands to boreal evapotranspiration in a warming climate. Nature Climate Change, 2020, 10, 555-560. | 8.1 | 106 |
| 35 | Individual variation of sap-flow rate in large pine and spruce trees and stand transpiration: a pilot study at the central NOPEX site. Journal of Hydrology, 1995, 168, 17-27. | 2.3 | 101 |
| 36 | A 12-year record reveals pre-growing season temperature and water table level threshold effects on the net carbon dioxide exchange in a boreal fen. Environmental Research Letters, 2014, 9, 055006. | 2.2 | 100 |

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| 37 | Pools and fluxes of carbon in three Norway spruce ecosystems along a climatic gradient in Sweden. Biogeochemistry, 2008, 89, 7-25. | 1.7 | 99 |
| 38 | Interpreting canopy development and physiology using a European phenology camera network at flux sites. Biogeosciences, 2015, 12, 5995-6015. | 1.3 | 98 |
| 39 | Energy exchange and water budget partitioning in a boreal minerogenic mire. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1-13. | 1.3 | 94 |
| 40 | Comparison between tower and aircraft-based eddy covariance fluxes in five European regions. Agricultural and Forest Meteorology, 2004, 127, 1-16. | 1.9 | 91 |
| 41 | Effects of drought conditions on the carbon dioxide dynamics in a temperate peatland. Environmental Research Letters, 2012, 7, 045704. | 2.2 | 91 |
| 42 | Landâ€atmosphere exchange of methane from soil thawing to soil freezing in a highâ€<scp>A</scp>rctic wet tundra ecosystem. Global Change Biology, 2012, 18, 1928-1940. | 4.2 | 89 |
| 43 | The effect of water availability on stand-level productivity, transpiration, water use efficiency and radiation use efficiency of field-grown willow clones. Biomass and Bioenergy, 2007, 31, 460-468. | 2.9 | 88 |
| 44 | Canopy Conductance of Coniferous Forests Related to Climate. Water Resources Research, 1985, 21, 297-304. | 1.7 | 86 |
| 45 | Evaluation of heat balance and heat dissipation methods for sapflow measurements in pine and spruce. Annals of Forest Science, 2001, 58, 625-638. | 0.8 | 86 |
| 46 | Annual CO<sub>2</sub> exchange between a nutrientâ€poor, minerotrophic, boreal mire and the atmosphere. Journal of Geophysical Research, 2008, 113, . | 3.3 | 86 |
| 47 | Net primary production and light use efficiency in a mixed coniferous forest in Sweden. Plant, Cell and Environment, 2005, 28, 412-423. | 2.8 | 85 |
| 48 | Early snowmelt significantly enhances boreal springtime carbon uptake. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11081-11086. | 3.3 | 84 |
| 49 | Methane and carbon dioxide fluxes over a lake: comparison between eddy covariance, floating chambers and boundary layer method. Biogeosciences, 2018, 15, 429-445. | 1.3 | 81 |
| 50 | Canopy transpiration from a boreal forest in Sweden during a dry year. Agricultural and Forest Meteorology, 1997, 86, 157-167. | 1.9 | 78 |
| 51 | Continuous long-term measurements of soil-plant-atmosphere variables at a forest site. Agricultural and Forest Meteorology, 1999, 98-99, 53-73. | 1.9 | 78 |
| 52 | Thinning effects on pine-spruce forest transpiration in central Sweden. Forest Ecology and Management, 2008, 255, 2312-2323. | 1.4 | 77 |
| 53 | Gas transfer rate and CO<sub>2</sub> flux between an unproductive lake and the atmosphere in northern Sweden. Journal of Geophysical Research, 2008, 113, . | 3.3 | 77 |
| 54 | A catchment-scale carbon and greenhouse gas budget of a subarctic landscape. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 1643-1656. | 1.6 | 76 |

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| 55 | Use of Depuration Compounds in Passive Air Samplers: Results from Active Sampling-Supported Field Deployment, Potential Uses, and Recommendations. Environmental Science & Technology, 2009, 43, 3227-3232. | 4.6 | 76 |
| 56 | Standardisation of chamber technique for CO2, N2O and CH4 fluxes measurements from terrestrial ecosystems. International Agrophysics, 2018, 32, 569-587. | 0.7 | 76 |
| 57 | Water-use efficiency of willow: Variation with season, humidity and biomass allocation. Journal of Hydrology, 1994, 156, 1-19. | 2.3 | 75 |
| 58 | Simulating evaporation from short-rotation forest: variations within and between seasons. Journal of Hydrology, 1994, 156, 21-45. | 2.3 | 75 |
| 59 | Environmental controls on the CO<sub>2</sub> exchange in north European mires. Tellus, Series B: Chemical and Physical Meteorology, 2022, 59, 812. | 0.8 | 75 |
| 60 | Leaf area index is the principal scaling parameter for both gross photosynthesis and ecosystem respiration of Northern deciduous and coniferous forests. Tellus, Series B: Chemical and Physical Meteorology, 2008, 60, 129-142. | 0.8 | 75 |
| 61 | Turbulent exchange above a pine forest, I: Fluxes and gradients. Boundary-Layer Meteorology, 1989, 49, 197-217. | 1.2 | 74 |
| 62 | Seasonal variation of boreal forest surface conductance and evaporation. Agricultural and Forest Meteorology, 1999, 98-99, 563-578. | 1.9 | 73 |
| 63 | The effects of water availability on transpiration, water potential and growth of Picea abies during a growing season. Journal of Hydrology, 1994, 155, 57-71. | 2.3 | 72 |
| 64 | A new mass conservation approach to the study of CO<sub>2</sub> advection in an alpine forest. Journal of Geophysical Research, 2009, 114, . | 3.3 | 69 |
| 65 | Water use efficiency of short-rotation Salix viminalis at leaf, tree and stand scales. Tree Physiology, 1996, 16, 257-262. | 1.4 | 68 |
| 66 | Effects of N and P fertilization on the greenhouse gas exchange in two northern peatlands with contrasting N deposition rates. Biogeosciences, 2009, 6, 2135-2144. | 1.3 | 68 |
| 67 | Flow Distortion by a Solent Sonic Anemometer: Wind Tunnel Calibration and Its Assessment for Flux Measurements over Forest and Field. Journal of Atmospheric and Oceanic Technology, 1994, 11, 1529-1542. | 0.5 | 67 |
| 68 | Quantifying the effect of forest age in annual net forest carbon balance. Environmental Research Letters, 2018, 13, 124018. | 2.2 | 67 |
| 69 | Comparison of floating chamber and eddy covariance measurements of lake greenhouse gas fluxes. Biogeosciences, 2014, 11, 4225-4233. | 1.3 | 66 |
| 70 | Standardisation of eddy-covariance flux measurements of methane and nitrous oxide. International Agrophysics, 2018, 32, 517-549. | 0.7 | 66 |
| 71 | The Full Annual Carbon Balance of Boreal Forests Is Highly Sensitive to Precipitation. Environmental Science and Technology Letters, 2014, 1, 315-319. | 3.9 | 65 |
| 72 | Global transpiration data from sap flow measurements: the SAPFLUXNET database. Earth System Science Data, 2021, 13, 2607-2649. | 3.7 | 65 |

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| 73 | Vertical variability and effect of stability on turbulence characteristics down to the floor of a pine forest. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 919-936. | 0.8 | 64 |
| 74 | Annual CO2 balance of a temperate bog. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 804-811. | 0.8 | 62 |
| 75 | Estimating LAI in deciduous forest stands. Agricultural and Forest Meteorology, 2005, 129, 27-37. | 1.9 | 60 |
| 76 | Aerodynamic and canopy resistance of short-rotation forest in relation to leaf area index and climate. Boundary-Layer Meteorology, 1993, 66, 265-279. | 1.2 | 59 |
| 77 | ICOS eddy covariance flux-station site setup: a review. International Agrophysics, 2018, 32, 471-494. | 0.7 | 59 |
| 78 | Stand transpiration and sapflow density in relation to weather, soil moisture and stand characteristics. Basic and Applied Ecology, 2002, 3, 229-243. | 1.2 | 58 |
| 79 | Available energy and energy balance closure at four coniferous forest sites across Europe. Theoretical and Applied Climatology, 2009, 98, 397-412. | 1.3 | 58 |
| 80 | Carbon dioxide exchange in Norway spruce at the shoot, tree and ecosystem scale. Tree Physiology, 2001, 21, 969-976. | 1.4 | 57 |
| 81 | Assessment of transpiration estimates for Picea abies trees during a growing season. Trees - Structure and Function, 1992, 6, 121-127. | 0.9 | 56 |
| 82 | Water flux in boreal forest during two hydrologically contrasting years; species specific regulation of canopy conductance and transpiration. Annales Des Sciences ForestiÃ¨res, 1998, 55, 47-61. | 1.1 | 56 |
| 83 | Towards long-term standardised carbon and greenhouse gas observations for monitoring Europeâ€™s terrestrial ecosystems: a review. International Agrophysics, 2018, 32, 439-455. | 0.7 | 55 |
| 84 | Measurement of net ecosystem exchange, productivity and respiration in three spruce forests in Sweden shows unexpectedly large soil carbon losses. Biogeochemistry, 2008, 89, 43-60. | 1.7 | 54 |
| 85 | Bayesian calibration of a model describing carbon, water and heat fluxes for a Swedish boreal forest stand. Ecological Modelling, 2008, 213, 331-344. | 1.2 | 54 |
| 86 | Biophysical controls on CO<sub>2</sub>fluxes of three Northern forests based on long-term eddy covariance data. Tellus, Series B: Chemical and Physical Meteorology, 2008, 60, 143-152. | 0.8 | 53 |
| 87 | Soil surface CO2 efflux measurements in Norway spruce forests: Comparison between four different sites across Europe â€" from boreal to alpine forest. Geoderma, 2013, 192, 295-303. | 2.3 | 53 |
| 88 | Latent heat exchange in the boreal and arctic biomes. Global Change Biology, 2014, 20, 3439-3456. | 4.2 | 52 |
| 89 | Towards operational remote sensing of forest carbon balance across Northern Europe. Biogeosciences, 2008, 5, 817-832. | 1.3 | 51 |
| 90 | Water use by intensively cultivated willow using estimated stomatal parameter values. Hydrological Processes, 1989, 3, 51-63. | 1.1 | 50 |

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| 91 | Regional-scale CO 2 fluxes over central Sweden by a boundary layer budget method. Agricultural and Forest Meteorology, 1999, 98-99, 169-180. | 1.9 | 50 |
| 92 | Sap flow by the heat balance method applied to small size Salix trees in a short-rotation forest. Biomass and Bioenergy, 1995, 8, 7-15. | 2.9 | 49 |
| 93 | Up-scaling of water use efficiency from leaf to canopy as based on leaf gas exchange relationships and the modeled in-canopy light distribution. Agricultural and Forest Meteorology, 2012, 152, 201-211. | 1.9 | 49 |
| 94 | Seasonal and diurnal variation of energy budget components in coniferous forests. Journal of Hydrology, 1985, 82, 1-15. | 2.3 | 48 |
| 95 | Test of a modified Shuttleworthâ€“Wallace estimate of boreal forest evaporation. Agricultural and Forest Meteorology, 1999, 98-99, 605-619. | 1.9 | 47 |
| 96 | Estimating net primary production for Scandinavian forests using data from Terra/MODIS. Advances in Space Research, 2007, 39, 125-130. | 1.2 | 46 |
| 97 | Analysis of carbon and water fluxes from the NOPEX boreal forest: comparison of measurements with FOREST-BGC simulations. Journal of Hydrology, 1998, 212-213, 62-78. | 2.3 | 45 |
| 98 | A fertile peatland forest does not constitute a major greenhouse gas sink. Biogeosciences, 2013, 10, 7739-7758. | 1.3 | 45 |
| 99 | Simulated and measured water uptake by picea abies under non-limiting soil water conditions. Agricultural and Forest Meteorology, 1994, 71, 147-164. | 1.9 | 44 |
| 100 | H2O and CO2fluxes at the floor of a boreal pine forest. Tellus, Series B: Chemical and Physical Meteorology, 2008, 60, 167-178. | 0.8 | 43 |
| 101 | Redefinition and global estimation of basal ecosystem respiration rate. Global Biogeochemical Cycles, 2011, 25, n/a-n/a. | 1.9 | 43 |
| 102 | Atmospheric methane removal by boreal plants. Geophysical Research Letters, 2012, 39, . | 1.5 | 43 |
| 103 | Quantification of C uptake in subarctic birch forest after setback by an extreme insect outbreak. Geophysical Research Letters, 2011, 38, n/a-n/a. | 1.5 | 42 |
| 104 | Differentiating moss from higher plants is critical in studying the carbon cycle of the boreal biome. Nature Communications, 2014, 5, 4270. | 5.8 | 42 |
| 105 | Numerical analysis of pine forest evaporation and surface resistance. Agricultural and Forest Meteorology, 1986, 38, 59-79. | 1.9 | 41 |
| 106 | Airâ^'Boreal Forest Transfer and Processing of Polychlorinated Biphenyls. Environmental Science & Technology, 2009, 43, 5282-5289. | 4.6 | 41 |
| 107 | Variation in sapflow and stem growth in relation to tree size, competition and thinning in a mixed forest of pine and spruce in Sweden. Forest Ecology and Management, 2004, 188, 51-63. | 1.4 | 40 |
| 108 | Modeling GPP in the Nordic forest landscape with MODIS time series dataâ€"Comparison with the MODIS GPP product. Remote Sensing of Environment, 2012, 126, 136-147. | 4.6 | 40 |

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| 109 | Calibration and validation of a semi-empirical flux ecosystem model for coniferous forests in the Boreal region. Ecological Modelling, 2016, 341, 37-52. | 1.2 | 39 |
| 110 | Do the energy fluxes and surface conductance of boreal coniferous forests in Europe scale with leaf area?. Global Change Biology, 2016, 22, 4096-4113. | 4.2 | 39 |
| 111 | Bayesian calibration method used to elucidate carbon turnover in forest on drained organic soil. Biogeochemistry, 2008, 89, 61-79. | 1.7 | 38 |
| 112 | Evaluating the performance of commonly used gas analysers for methane eddy covariance flux measurements: the InGOS inter-comparison field experiment. Biogeosciences, 2014, 11, 3163-3186. | 1.3 | 38 |
| 113 | Effects of low thinning on carbon dioxide fluxes in a mixed hemiboreal forest. Agricultural and Forest Meteorology, 2018, 262, 59-70. | 1.9 | 35 |
| 114 | Effects of drought and meteorological forcing on carbon and water fluxes in Nordic forests during the dry summer of 2018. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190516. | 1.8 | 35 |
| 115 | Gas-exchange and sap flow measurements of Salix viminalis trees in short-rotation forest. Trees - Structure and Function, 1995, 9, 295-301. | 0.9 | 33 |
| 116 | A Calibration System for Soil Carbon Dioxideâ€Efflux Measurement Chambers. Soil Science Society of America Journal, 2003, 67, 327-334. | 1.2 | 33 |
| 117 | Open ventilated chamber system for measurements of H2O and CO2 fluxes from the soil surface. Soil and Tillage Research, 1997, 10, 169-184. | 0.4 | 32 |
| 118 | Current Carbon Balance of the Forested Area in Sweden and its Sensitivity to Global Change as Simulated by Biome-BGC. Ecosystems, 2006, 9, 894-908. | 1.6 | 32 |
| 119 | Two years with extreme and little snowfall: effects on energy partitioning and surface energy exchange in a high-Arctic tundra ecosystem. Cryosphere, 2016, 10, 1395-1413. | 1.5 | 32 |
| 120 | Spring initiation and autumn cessation of boreal coniferous forest CO<sub>2</sub> exchange assessed by meteorological and biological variables. Tellus, Series B: Chemical and Physical Meteorology, 2022, 61, 701. | 0.8 | 31 |
| 121 | The biophysical climate mitigation potential of boreal peatlands during the growing season. Environmental Research Letters, 2020, 15, 104004. | 2.2 | 31 |
| 122 | Assessing seasonality of biochemical CO<sub>2</sub> exchange model parameters from micrometeorological flux observations at boreal coniferous forest. Biogeosciences, 2008, 5, 1625-1639. | 1.3 | 31 |
| 123 | Spatiotemporal evolution of CO2 concentration, temperature, and wind field during stable nights at the Norunda forest site. Agricultural and Forest Meteorology, 2010, 150, 692-701. | 1.9 | 30 |
| 124 | Thermal adaptation of net ecosystem exchange. Biogeosciences, 2011, 8, 1453-1463. | 1.3 | 30 |
| 125 | Impact of CO 2 storage flux sampling uncertainty on net ecosystem exchange measured by eddy covariance. Agricultural and Forest Meteorology, 2018, 248, 228-239. | 1.9 | 30 |
| 126 | Long-term measurements of stand water uptake in Swedish boreal forest. Agricultural and Forest Meteorology, 1999, 98-99, 547-554. | 1.9 | 29 |

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|---|---|---|---|
| 127 | A Calibration System for Soil Carbon Dioxide-Efflux Measurement Chambers. Soil Science Society of America Journal, 2003, 67, 327. | 1.2 | 29 |
| 128 | Evaporation and storage of intercepted rain analysed by comparing two models applied to a boreal forest. Agricultural and Forest Meteorology, 1999, 98-99, 595-604. | 1.9 | 28 |
| 129 | The Net Landscape Carbon Balanceâ€"Integrating terrestrial and aquatic carbon fluxes in a managed boreal forest landscape in Sweden. Global Change Biology, 2020, 26, 2353-2367. | 4.2 | 28 |
| 130 | Simple calculation of extinction coefficient of forest stands. Agricultural Meteorology, 1981, 25, 97-110. | 0.7 | 27 |
| 131 | Pine forest microclimate simulation using different diffusivities. Boundary-Layer Meteorology, 1986, 35, 103-123. | 1.2 | 27 |
| 132 | Branch transpiration of pine and spruce scaled to tree and canopy using needle biomass distributions. Trees - Structure and Function, 2000, 14, 384-397. | 0.9 | 27 |
| 133 | Studying the spatial variability of methane flux with five eddy covariance towers of varying height. Agricultural and Forest Meteorology, 2015, 214-215, 456-472. | 1.9 | 27 |
| 134 | Surface energy budget dynamics of short-rotation willow forest. Theoretical and Applied Climatology, 1993, 47, 175-185. | 1.3 | 26 |
| 135 | Thermal roughness length of a boreal forest. Agricultural and Forest Meteorology, 1999, 98-99, 659-670. | 1.9 | 26 |
| 136 | Night-time evaporation from a short-rotation willow stand. Journal of Hydrology, 1994, 157, 235-245. | 2.3 | 25 |
| 137 | Assessment and simulation of global terrestrial latent heat flux by synthesis of CMIP5 climate models and surface eddy covariance observations. Agricultural and Forest Meteorology, 2016, 223, 151-167. | 1.9 | 25 |
| 138 | Gradient measurements with fixed and reversing temperature and humidity sensors above a thin forest. Agricultural and Forest Meteorology, 1990, 53, 81-103. | 1.9 | 24 |
| 139 | Scale aggregation â€" comparison of flux estimates from NOPEX. Agricultural and Forest Meteorology, 1999, 98-99, 103-119. | 1.9 | 24 |
| 140 | Carbon balance gradient in European forests: should we doubt â€˜surprisingâ€™ results? A reply to Piovesan & Adams. Journal of Vegetation Science, 2001, 12, 145-150. | 1.1 | 24 |
| 141 | Short-term effects of thinning, clear-cutting and stump harvesting on methane exchange in a boreal forest. Biogeosciences, 2014, 11, 6095-6105. | 1.3 | 24 |
| 142 | Gas-exchange and sap flow measurements of Salix viminalis trees in short-rotation forest. Trees - Structure and Function, 1995, 9, 289-294. | 0.9 | 23 |
| 143 | Water-use efficiency as a means of modelling net assimilation in boreal forests. Trees - Structure and Function, 2001, 15, 67-74. | 0.9 | 23 |
| 144 | Energy partitioning in relation to leaf area development of short-rotation willow coppice. Agricultural and Forest Meteorology, 1996, 81, 119-130. | 1.9 | 22 |

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| 145 | Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. Global Ecology and Biogeography, 2019, 28, 1351-1365. | 2.7 | 22 |
| 146 | Turbulence characteristics and dispersion in a forestâ€"tests of Thomson's random-flight model. Agricultural and Forest Meteorology, 2004, 127, 203-222. | 1.9 | 21 |
| 147 | Water Vapor, CO2, and Temperature Profiles in and above a Forestâ€"Accuracy Assessment of an Unattended Measurement System. Journal of Atmospheric and Oceanic Technology, 2000, 17, 417-425. | 0.5 | 20 |
| 148 | Magnani et al. reply. Nature, 2008, 451, E3-E4. | 13.7 | 20 |
| 149 | Gradient distributions and flux profile relations above a rough forest. Quarterly Journal of the Royal Meteorological Society, 1984, 110, 553-563. | 1.0 | 16 |
| 150 | Large carbon-sink potential by Kyoto forests in Swedenâ€"a case study on willow plantations. Tellus, Series B: Chemical and Physical Meteorology, 2022, 59, 910. | 0.8 | 16 |
| 151 | Methane exchange in a boreal forest estimated by gradient method. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 26688. | 0.8 | 16 |
| 152 | Impacts of Clear-Cutting of a Boreal Forest on Carbon Dioxide, Methane and Nitrous Oxide Fluxes. Forests, 2020, 11, 961. | 0.9 | 16 |
| 153 | Boreal forest soil carbon fluxes one year after a wildfire: Effects of burn severity and management. Global Change Biology, 2021, 27, 4181-4195. | 4.2 | 16 |
| 154 | Simulation of willow short-rotation forest evaporation using a modified Shuttleworth-Wallace approach. Hydrological Processes, 2001, 15, 97-113. | 1.1 | 15 |
| 155 | Tundra permafrost thaw causes significant shifts in energy partitioning. Tellus, Series B: Chemical and Physical Meteorology, 2022, 68, 30467. | 0.8 | 15 |
| 156 | A new land-surface treatment for HIRLAM â€" comparisons with NOPEX measurements. Agricultural and Forest Meteorology, 1999, 98-99, 239-256. | 1.9 | 13 |
| 157 | A young afforestation area in Iceland was a moderate sink to CO<sub>2</sub> only a decade after scarification and establishment. Biogeosciences, 2009, 6, 2895-2906. | 1.3 | 13 |
| 158 | Synoptic evapotranspiration model applied to two northern forests of different density. Journal of Hydrology, 1987, 95, 185-201. | 2.3 | 12 |
| 159 | Dependence of kBâ^'1 factor on roughness Reynolds number for barley and pasture. Agricultural and Forest Meteorology, 2001, 106, 147-152. | 1.9 | 12 |
| 160 | Applicability of leaf area index products for boreal regions of Sweden. International Journal of Remote Sensing, 2009, 30, 5619-5632. | 1.3 | 12 |
| 161 | Time shift between net and gross CO2 uptake and growth derived from tree rings in pine and spruce. Trees - Structure and Function, 2019, 33, 765-776. | 0.9 | 12 |
| 162 | Reduced Loss in Precipitation Measurements Using a New Wind Shield for Raingages. Journal of Atmospheric and Oceanic Technology, 1991, 8, 444-451. | 0.5 | 11 |

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| 163 | Discrepancy between Energy and Water Balance Estimates of Evapotranspiration. Developments in Agricultural and Managed-forest Ecology, 1979, 9, 237-255. | 0.2 | 10 |
| 164 | Boreal Forest Surface Parameterization in the ECMWF Modelâ€"1D Test with NOPEX Long-Term Data. Journal of Applied Meteorology and Climatology, 2003, 42, 95-112. | 1.7 | 10 |
| 165 | Estimation of winter leaf area index and sky view fraction for snow modelling in boreal coniferous forests: consequences on snow mass and energy balance. Hydrological Processes, 2013, 27, 2876-2891. | 1.1 | 9 |
| 166 | The importance of micrometeorological variations for photosynthesis and transpiration in a boreal coniferous forest. Biogeosciences, 2015, 12, 237-256. | 1.3 | 9 |
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