

Publication list Christoph Leuschner

With peer review (Journal articles and book chapters)

2018

- 317) Heinze S, Ludwig B, Piepho H-P, Mikutta R, Don A, Wordell-Dietrich P, Helfrich M, Hertel D, **Leuschner C**, Kirfel K, Kandeler E, Preusser S, Guggenberger G, Leinemann T, Marschner B (2018) Factors controlling the variability of organic matter in the top-and subsoil of a sandy Dystric Cambisol under beech forest. *Geoderma* 311: 37-44.

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- 316) Abou Rajab Y, Hölscher D, **Leuschner C**, Barus H, Tjoa A, Hertel D Effects of shade tree cover and diversity on root system structure and dynamics in cacao agroforests: The role of root competition and space partitioning. *Plant and Soil* (in press).
- 315) Brambach F, **Leuschner C**, Tjoa A, Culmsee H (2017) Diversity, endemism, and composition of tropical mountain forest communities in Sulawesi, Indonesia, in relation to elevation and soil properties. *Perspectives in Plant Ecology, Evolution and Systematics* 27: 68-79.
- 314) Cárata-Tandalla D, Camenzind T, **Leuschner C**, Homeier J (2017) Contrasting species responses to continued nitrogen and phosphorus addition in tropical montane forest tree seedlings. *Biotropica* (in press).
- 313) Dulamsuren C, Hauck M, Kopp G, Ruff M, **Leuschner C** (2017) European beech responds to climate warming with growth decline at lower, and growth increase at higher elevations in the center of its distribution range (SW Germany). *Trees* 31: 673-686.
- 312) Förster A, Gerlach A, Meesenburg H, **Leuschner C** (2017) Long-term change in understorey plant communities of conventionally-managed temperate deciduous forests: effects of nitrogen deposition and forest management. *Journal of Vegetation Science* 28: 747–761.
- 311) Fuchs S, **Leuschner C**, Link R, Coners H, Schuldt B (2017) Calibration and comparison of thermal dissipation, heat ratio and heat field deformation sap flow probes for diffuse-porous trees. *Agricultural and Forest Meteorology* 244/245: 151-161.
- 310) Glatthorn J, Pichler V, Hauck M, **Leuschner C** (2017) Effects of forest management on stand leaf area: Comparing beech production and primeval forests in Slovakia. *Forest Ecology and Management* 389: 76-85.
- 309) Glatthorn J, Feldmann E, Pichler V, Hauck M, **Leuschner C** (2017) Biomass stock and productivity of primeval and production beech forests: Greater canopy structural diversity promotes productivity. *Ecosystems* (in press).
- 308) Homeier J, Kurzatkowski D, **Leuschner C** (2017) Stand dynamics of the drought-affected floodplain forests of Araguaia River, Brazilian Amazon. *Forest Ecosystems* 4: 10.
- 307) Homeier J, Báez S, Hertel D, **Leuschner C** (2017) Lessons learned from nutrient manipulation experiments in tropical forests. *Frontiers in Earth Science* 5: 27.

- 306) Kaufmann S, Hauck M, **Leuschner C** (2017) Comparing the plant diversity of paired beech primeval and production forests: Management reduces cryptogam, but not vascular plant species richness. *Forest Ecology and Management* 400: 58-67.
- 305) Khansaritoreh E, Dulamsuren C, Klinge M, Ariunbaatar T, Bat-Enerel B, Batsaikhan G, Ganbaatar K, Sain-Dondov D, Yeruult Y, Tsogtbaatar J, Tuya D, **Leuschner C**, Hauck M (2017) Higher climate warming sensitivity of Siberian larch in small than large forest islands in the fragmented Mongolian forest steppe. *Global Change Biology* 23: 3675-3689.
- 304) Khansaritoreh E, Eldarov M, Ganbaatar K, Saindovdon D, **Leuschner C**, Hauck M, Dulamsuren C (2017) Age structure and trends in annual stem increment of *Larix sibirica* in two neighboring Mongolian forest-steppe regions differing in land use history. *Trees* 6: 1973-1986.
- 303) Kirfel K, **Leuschner C**, Hertel D, Schuldt B (2017) Influence of root diameter and age on the root hydraulic architecture of small- to medium-sized roots of mature beech trees in the top- and subsoil. *Frontiers in Plant Science* 8: 1194.
- 302) Knutzen F, Dulamsuren C, Meier IC, **Leuschner C** (2017) Recent climate warming-related growth decline impairs European beech in the center of its distribution range. *Ecosystems* (in press).
- 301) Kubisch P, **Leuschner C**, Coners H, Gruber A, Hertel D (2017) Fine root abundance and dynamics of Stone pine (*Pinus cembra*) at the alpine treeline is not impaired by self-shading. *Frontiers in Plant Science* 8: 602.
- 300) **Leuschner C**, Ellenberg H (2017) Ecology of Central European Forests. – Vegetation Ecology of Central Europe, vol. I. Springer, Cham. 971 p.
- 299) **Leuschner C**, Ellenberg H (2017) Ecology of Central European Non-Forest Vegetation: Coastal to Alpine, Natural to Man-Made Habitats. – Vegetation Ecology of Central Europe, vol. II. Springer, Cham. 1093 p.
- 298) Lübke T, Schuldt B, Leuschner C (2017) Acclimation of leaf water status and stem hydraulics to drought and tree neighborhood: alternative strategies among the saplings of five temperate deciduous tree species, *Tree Physiology* 37: 456-468
- 297) Meier IC, Knutzen F, Eder LM, Müller-Haubold H, Göbel M, Bachmann J, Hertel D, **Leuschner C** (2017) The deep root system of *Fagus sylvatica* on sandy soil: structure and variation across a precipitation gradient. *Ecosystems* (in press).
- 296) Müller M, Seifert S, Lübke T, **Leuschner C**, Finkeldey R (2017) De novo transcriptome assembly and analysis of differential gene expression in response to drought in European beech. *PlosOne* (in press).
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- 294) Schwerbrock R, **Leuschner C** (2017) Vulnerability analysis of the rare and endangered woodland fern *Polystichum braunii* in Germany: three possible causes of population decline. *Plant Ecology and Diversity* (in press).
- 293) Tückmantel T, **Leuschner C**, Preusser S, Kandeler E, Angst G, Mueller CW, Meier IC (2017) Root exudation patterns in a beech forest: Dependence on soil depth, root morphology and environment. *Soil Biology and Biochemistry* 107: 188-197.
- 292) Walentowski H, Falk W, Mette T, Kunz J, Bräuning A, Meinardus C, Zang C, Sutcliffe L, **Leuschner C** (2017) Assessing future suitability of tree species under climate change

by multiple methods: a case study in southern Germany. *Annals of Forest Research* 60: 101-126.

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- 291) Abou Rajab Y, **Leuschner C**, Barus H, Tjoa A, Hertel D (2016) Cacao cultivation under diverse shade tree cover allows high carbon storage and sequestration without yield losses. *PLoS ONE* 11: e0149949.
- 290) Becker T, Spanka J, Schröder L, **Leuschner C** (2016) Forty years of vegetation change in former coppice-with-standards woodlands as a result of management change and N deposition. *Applied Vegetation Science* (in press).
- 289) Camenzind T, Homeier J, Dietrich K, Hempel S, Hertel D, Krohn A, **Leuschner C**, Oelmann Y, Olsson PA, Suárez JP, Rillig MC (2016) Opposing effects of nitrogen versus phosphorus additions on mycorrhizal fungal abundance along an elevational gradient in tropical montane forests. *Soil Biology and Biochemistry* 94: 37-47.
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- 287) Coners H, Babel W, Willinghöfer S, Biermann T, Köhler L, Seeber E, Foken T, Miede G, Ma Y, Yang Y, Miede G, **Leuschner C** (2016) Evapotranspiration and water balance of high-elevation grassland on the Tibetan Plateau. *Journal of Hydrology* 533: 557-566.
- 286) Dittrich S, **Leuschner C**, Hauck M (2016) Change in the bryophyte diversity and species composition of Central European temperate broad-leaved forests since the late nineteenth century. *Biodiversity and Conservation* 25: 2071-2091.
- 285) Drescher J, Rembold K, Allen K, Beckschäfer P, Buchori D, Clough Y, Faust H, Fauzi AM, Gunawan D, Hertel D, Irawan B, Nengah S Jaya I, Klarner B, Kleinn C, Knohl A, Kotowska MM, Krashevskaya V, Krishna V, **Leuschner C**, Lorenz W, Meijide A, Melati D, Nomura M, Pérez-Cruzado C, Quaim M, Siregar IZ, Steinebach S, Tjoa A, Tschardt T, Wick B, Wiegand K, Kreft H, Scheu S (2016) Ecological and socio-economic functions across tropical land use systems after rainforest conversion. *Philosophical Transactions of the Royal Society London B* 371: 20150275.
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- 282) Heinrichs S, Walentowski H, Bergmeier, Mellert EKH, Indreica A, Kuzyakov Y, **Leuschner C**, Petritan AM, Teodosiu M (2017) Forest vegetation in western Romania

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- 281) Kotowska MM, **Leuschner C**, Triadiati T, Hertel D (2016) Conversion of tropical lowland forest reduces nutrient return through litterfall, and alters nutrient use efficiency and seasonality of net primary production. *Oecologia* 180: 601-618.
- 280) Kubisch P, Hertel D, Leuschner C (2016) Fine root productivity and turnover of ectomycorrhizal and arbuscular mycorrhizal tree species in a temperate broad-leaved mixed forest. *Frontiers in Plant Science* 7: 1233.
- 279) Lübke T, Schuldt B, Coners H, Leuschner C (2016) Species diversity and identity effects on the water consumption of tree sapling assemblages under ample and limited water supply. *Oikos* 125: 86-97.
- 278) Meier IC, **Leuschner C**, Marini E, Fender A-C (2016) Species-specific effects of temperate trees on greenhouse gas exchange of forest soil are diminished by drought. *Soil Biology Biochemistry* 95: 122-134.
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- 274) Bade C, Jacob M, **Leuschner C**, Hauck M (2015) Chemical properties of decaying wood in an old-growth spruce forest and effects on soil chemistry. *Biogeochemistry* 122: 1-13.
- 273) Cárate D, **Leuschner C**, Homeier J (2015) Performance of seedlings of a shade-tolerant tropical tree species after moderate addition of N and P. *Frontiers in Earth Science* 3: 75.
- 272) Chenlemuge T, Dulamsuren C, Hertel D, Schuldt B, **Leuschner C**, Hauck M (2015) Hydraulic properties and fine root mass of *Larix sibirica* along forest edge-interior gradients. *Acta Oecologica* 63: 28-35.
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- 243) Dittrich S, Jacob M, Bade C, **Leuschner C**, Hauck M (2014) The significance of deadwood for total bryophyte, lichen and vascular plant diversity in an old-growth spruce forest. *Plant Ecology* 215: 1123-1137.

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- 218) Cesarz S, Fender A-C, Beyer F, Valtanen K, Pfeiffer B, Gansert D, Hertel D, Polle A, Daniel R, **Leuschner C**, Scheu S (2013). Beech promotes rhizosphere functioning by favouring fungi. *Soil Biology and Biochemistry* 61: 23-32.
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