

# Christoph Leuschner

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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|--------------------|--------------------------|----------------|-----------------|
| 283<br>papers      | 10,377<br>citations      | 56<br>h-index  | 86<br>g-index   |
| 290<br>ext. papers | 12,208<br>ext. citations | 4.1<br>avg, IF | 6.71<br>L-index |

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 283 | Implementing a New Rubber Plant Functional Type in the Community Land Model (CLM5) Improves Accuracy of Carbon and Water Flux Estimation. <i>Land</i> , <b>2022</b> , 11, 183  | 3.5  | 0         |
| 282 | Are northern German Scots pine plantations climate smart? The impact of large-scale conifer planting on climate, soil and the water cycle. <i>Forest Ecology and Management</i> , <b>2022</b> , 507, 120013  | 3.9  | 0         |
| 281 | Winners and losers of climate warming: Declining growth in <i>Fagus</i> and <i>Tilia</i> vs. stable growth in three <i>Quercus</i> species in the natural beech-oak forest ecotone (western Romania). <i>Forest Ecology and Management</i> , <b>2022</b> , 506, 119892 | 3.9  | 2         |
| 280 | Soil water availability and branch age explain variability in xylem safety of European beech in Central Europe.. <i>Oecologia</i> , <b>2022</b> , 198, 629   | 2.9  | 1         |
| 279 | Climate-change-driven growth decline of European beech forests.. <i>Communications Biology</i> , <b>2022</b> , 5, 163  | 6.7  | 7         |
| 278 | Forest management impact on soil organic carbon: A paired-plot study in primeval and managed European beech forests. <i>Forest Ecology and Management</i> , <b>2022</b> , 512, 120163  | 3.9  | 1         |
| 277 | High variation in hydraulic efficiency but not xylem safety between roots and branches in four temperate broad-leaved tree species. <i>Functional Ecology</i> , <b>2022</b> , 36, 699-712  | 5.6  | 3         |
| 276 | Did stand opening 60 years ago predispose a European beech population to death?. <i>Trees, Forests and People</i> , <b>2022</b> , 8, 100265  | 1.8  | 0         |
| 275 | Three-dimensional stratification pattern in an old-growth lowland forest: How does height in canopy and season influence temperate bat activity?. <i>Ecology and Evolution</i> , <b>2021</b> , 11, 17273-17288   | 2.8  | 0         |
| 274 | Climate warming-induced replacement of mesic beech by thermophilic oak forests will reduce the carbon storage potential in aboveground biomass and soil. <i>Annals of Forest Science</i> , <b>2021</b> , 78,   | 3.1  | 1         |
| 273 | Factors controlling the productivity of tropical Andean forests: climate and soil are more important than tree diversity. <i>Biogeosciences</i> , <b>2021</b> , 18, 1525-1541  | 4.6  | 6         |
| 272 | Classification of Tree Functional Types in a Megadiverse Tropical Mountain Forest from Leaf Optical Metrics and Functional Traits for Two Related Ecosystem Functions. <i>Forests</i> , <b>2021</b> , 12, 649  | 2.8  |           |
| 271 | An interdisciplinary framework to describe and evaluate the functioning of forest ecosystems. <i>Basic and Applied Ecology</i> , <b>2021</b> , 52, 1-14  | 3.2  | 4         |
| 270 | Leaf trait variation in species-rich tropical Andean forests. <i>Scientific Reports</i> , <b>2021</b> , 11, 9993   | 4.9  | 3         |
| 269 | Hydraulic variability of three temperate broadleaf tree species along a water availability gradient in central Europe. <i>New Phytologist</i> , <b>2021</b> , 231, 1387-1400   | 9.8  | 5         |
| 268 | Global transpiration data from sap flow measurements: the SAPFLUXNET database. <i>Earth System Science Data</i> , <b>2021</b> , 13, 2607-2649  | 10.5 | 13        |
| 267 | Quantifying old-growthness of lowland European beech forests by a multivariate indicator for forest structure. <i>Ecological Indicators</i> , <b>2021</b> , 125, 107575  | 5.8  | 6         |

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|-----|---|------|----|
| 266 | The Influence of <i>Tilia tomentosa</i> Moench on Plant Species Diversity and Composition in Mesophilic Forests of Western Romania. A Potential Tree Species for Warming Forests in Central Europe?. <i>Sustainability</i> , <b>2021</b> , 13, 7996 | 3.6  | 1  |
| 265 | Topography as a factor driving small-scale variation in tree fine root traits and root functional diversity in a species-rich tropical montane forest. <i>New Phytologist</i> , <b>2021</b> , 230, 129-138  | 9.8  | 11 |
| 264 | Thinned northern German Scots pine forests have a low carbon storage and uptake potential in comparison to naturally developing beech forests. <i>Forest Ecology and Management</i> , <b>2021</b> , 479, 118575                                     | 3.9  | 6  |
| 263 | Climate implications on forest above- and belowground carbon allocation patterns along a tropical elevation gradient on Mt. Kilimanjaro (Tanzania). <i>Oecologia</i> , <b>2021</b> , 195, 797-812   | 2.9  | 2  |
| 262 | 60-year record of stem xylem anatomy and related hydraulic modification under increased summer drought in ring- and diffuse-porous temperate broad-leaved tree species. <i>Trees - Structure and Function</i> , <b>2021</b> , 35, 919-937           | 2.6  | 4  |
| 261 | Parent Material Effect on Soil Organic Carbon Concentration under Primeval European Beech Forests at a Regional Scale. <i>Forests</i> , <b>2021</b> , 12, 405   | 2.8  | 5  |
| 260 | Stomatal regulation and water potential variation in European beech: Challenging the iso/anisohydry concept. <i>Tree Physiology</i> , <b>2021</b> ,   | 4.2  | 2  |
| 259 | Identification of drought-tolerant tree species through climate sensitivity analysis of radial growth in Central European mixed broadleaf forests. <i>Forest Ecology and Management</i> , <b>2021</b> , 494, 119287                                 | 3.9  | 1  |
| 258 | Plant carbon investment in fine roots and arbuscular mycorrhizal fungi: A cross-biome study on nutrient acquisition strategies. <i>Science of the Total Environment</i> , <b>2021</b> , 781, 146748   | 10.2 | 5  |
| 257 | Species richness is more important for ecosystem functioning than species turnover along an elevational gradient. <i>Nature Ecology and Evolution</i> , <b>2021</b> , 5, 1582-1593  | 12.3 | 2  |
| 256 | Belowground consequences of converting broadleaf to conifer forest: Comparing the fine root systems of European beech and Scots pine. <i>Forest Ecology and Management</i> , <b>2021</b> , 496, 119457  | 3.9  | 3  |
| 255 | Spaceborne height models reveal above ground biomass changes in tropical landscapes. <i>Forest Ecology and Management</i> , <b>2021</b> , 497, 119497   | 3.9  | 0  |
| 254 | Shed light in the dark [How do natural canopy gaps influence temperate bat diversity and activity?]. <i>Forest Ecology and Management</i> , <b>2021</b> , 497, 119509   | 3.9  | 2  |
| 253 | A research framework for projecting ecosystem change in highly diverse tropical mountain ecosystems. <i>Oecologia</i> , <b>2021</b> , 195, 589-600  | 2.9  | 5  |
| 252 | Biodiversity and ecosystem functions depend on environmental conditions and resources rather than the geodiversity of a tropical biodiversity hotspot.. <i>Scientific Reports</i> , <b>2021</b> , 11, 24530   | 4.9  | 2  |
| 251 | Current State and Drivers of Arable Plant Diversity in Conventionally Managed Farmland in Northwest Germany. <i>Diversity</i> , <b>2020</b> , 12, 469   | 2.5  | 4  |
| 250 | The Economy of Canopy Space Occupation and Shade Production in Early- to Late-Successional Temperate Tree Species and Their Relation to Productivity. <i>Forests</i> , <b>2020</b> , 11, 317  | 2.8  | 2  |
| 249 | Regeneration Dynamics Following the Formation of Understory Gaps in a Slovakian Beech Virgin Forest. <i>Forests</i> , <b>2020</b> , 11, 585   | 2.8  | 8  |

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| 248 | Combination of energy limitation and sorption capacity explains 14C depth gradients. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 148, 107912  | 7.5 | 2  |
| 247 | Biomass, Morphology, and Dynamics of the Fine Root System Across a 3,000-M Elevation Gradient on Mt. Kilimanjaro. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 13   | 6.2 | 6  |
| 246 | Tree height predicts the shape of radial sap flow profiles of Costa-Rican tropical dry forest tree species. <i>Agricultural and Forest Meteorology</i> , <b>2020</b> , 287, 107913   | 5.8 | 3  |
| 245 | A plot-based elevational assessment of species densities, life forms and leaf traits of seed plants in the south-eastern Himalayan biodiversity hotspot, North Myanmar. <i>Plant Ecology and Diversity</i> , <b>2020</b> , 13, 437-450 | 2.2 |    |
| 244 | Vertical partitioning of CO <sub>2</sub> production in a forest soil. <i>Biogeosciences</i> , <b>2020</b> , 17, 6341-6356  | 4.6 | 3  |
| 243 | Surveying the arable plant diversity of conventionally managed farmland: a comparison of methods. <i>Environmental Monitoring and Assessment</i> , <b>2020</b> , 192, 98   | 3.1 | 2  |
| 242 | Predominant colonization of Malesian mountains by Australian tree lineages. <i>Journal of Biogeography</i> , <b>2020</b> , 47, 355-370   | 4.1 | 4  |
| 241 | Root exudation of mature beech forests across a nutrient availability gradient: the role of root morphology and fungal activity. <i>New Phytologist</i> , <b>2020</b> , 226, 583-594   | 9.8 | 24 |
| 240 | Flower strips, conservation field margins and fallows promote the arable flora in intensively farmed landscapes: Results of a 4-year study. <i>Agriculture, Ecosystems and Environment</i> , <b>2020</b> , 304, 107142                 | 5.7 | 6  |
| 239 | Drought response of European beech ( <i>Fagus sylvatica</i> L.) A review. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , <b>2020</b> , 47, 125576   | 3   | 25 |
| 238 | Microclimatic Tipping Points at the BeechOak Ecotone in the Western Romanian Carpathians. <i>Forests</i> , <b>2020</b> , 11, 919   | 2.8 | 7  |
| 237 | Provenance- and life-history stage-specific responses of the dwarf shrub <i>Calluna vulgaris</i> to elevated vapour pressure deficit. <i>Plant Ecology</i> , <b>2020</b> , 221, 1219-1232  | 1.7 | 2  |
| 236 | Impacts of Multiple Environmental Change Drivers on Growth of European Beech ( <i>Fagus sylvatica</i> ): Forest History Matters. <i>Ecosystems</i> , <b>2020</b> , 23, 529-540   | 3.9 | 3  |
| 235 | Effects of Summer Drought on the Fine Root System of Five Broadleaf Tree Species along a Precipitation Gradient. <i>Forests</i> , <b>2020</b> , 11, 289  | 2.8 | 5  |
| 234 | Leaf and Crown Optical Properties of Five Early-, Mid- and Late-Successional Temperate Tree Species and Their Relation to Sapling Light Demand. <i>Forests</i> , <b>2019</b> , 10, 925   | 2.8 | 3  |
| 233 | Patterns of long-term vegetation change vary between different types of semi-natural grasslands in Western and Central Europe. <i>Journal of Vegetation Science</i> , <b>2019</b> , 30, 187-202  | 3.1 | 26 |
| 232 | Soil moisture regime and palm height influence embolism resistance in oil palm. <i>Tree Physiology</i> , <b>2019</b> , 39, 1696-1712   | 4.2 | 5  |
| 231 | Vertical variation in epiphytic cryptogam species richness and composition in a primeval <i>Fagus sylvatica</i> forest. <i>Journal of Vegetation Science</i> , <b>2019</b> , 30, 881-892   | 3.1 | 2  |

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| 230 | Xylem hydraulic safety and efficiency in relation to leaf and wood traits in three temperate <i>Acer</i> species differing in habitat preferences. <i>Trees - Structure and Function</i> , <b>2019</b> , 33, 1475-1490                           | 2.6  | 11  |
| 229 | The relation between pressure-volume curve traits and stomatal regulation of water potential in five temperate broadleaf tree species. <i>Annals of Forest Science</i> , <b>2019</b> , 76, 1   | 3.1  | 19  |
| 228 | Effects of bedrock type and soil chemistry on the fine roots of European beech – A study on the belowground plasticity of trees. <i>Forest Ecology and Management</i> , <b>2019</b> , 444, 256-268   | 3.9  | 14  |
| 227 | The Role of Low Soil Temperature for Photosynthesis and Stomatal Conductance of Three Graminoids From Different Elevations. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 330  | 6.2  | 11  |
| 226 | Functional Crown Architecture of Five Temperate Broadleaf Tree Species: Vertical Gradients in Leaf Morphology, Leaf Angle, and Leaf Area Density. <i>Forests</i> , <b>2019</b> , 10, 265   | 2.8  | 16  |
| 225 | The effect of drought and season on root life span in temperate arbuscular mycorrhizal and ectomycorrhizal tree species. <i>Journal of Ecology</i> , <b>2019</b> , 107, 2226-2239  | 6    | 7   |
| 224 | The Kobresia pygmaea ecosystem of the Tibetan highlands - Origin, functioning and degradation of the world's largest pastoral alpine ecosystem: Kobresia pastures of Tibet. <i>Science of the Total Environment</i> , <b>2019</b> , 648, 754-771 | 10.2 | 104 |
| 223 | Leaf litter species identity influences biochemical composition of ectomycorrhizal fungi. <i>Mycorrhiza</i> , <b>2019</b> , 29, 85-96  | 3.9  | 5   |
| 222 | Hydraulic architecture and vulnerability to drought-induced embolism in southern boreal tree species of Inner Asia. <i>Tree Physiology</i> , <b>2019</b> , 39, 463-473   | 4.2  | 13  |
| 221 | Soil organic carbon stocks in topsoil and subsoil controlled by parent material, carbon input in the rhizosphere, and microbial-derived compounds. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 122, 19-30                               | 7.5  | 109 |
| 220 | A novel empirical approach for determining the extension of forest development stages in temperate old-growth forests. <i>European Journal of Forest Research</i> , <b>2018</b> , 137, 321-335   | 2.7  | 20  |
| 219 | Effects of natural forest dynamics on vascular plant, bryophyte, and lichen diversity in primeval <i>Fagus sylvatica</i> forests and comparison with production forests. <i>Journal of Ecology</i> , <b>2018</b> , 106, 2421-2434                | 6    | 12  |
| 218 | The Deep Root System of <i>Fagus sylvatica</i> on Sandy Soil: Structure and Variation Across a Precipitation Gradient. <i>Ecosystems</i> , <b>2018</b> , 21, 280-296   | 3.9  | 19  |
| 217 | Factors controlling the variability of organic matter in the top- and subsoil of a sandy Dystric Cambisol under beech forest. <i>Geoderma</i> , <b>2018</b> , 311, 37-44   | 6.7  | 39  |
| 216 | Biomass Stock and Productivity of Primeval and Production Beech Forests: Greater Canopy Structural Diversity Promotes Productivity. <i>Ecosystems</i> , <b>2018</b> , 21, 704-722  | 3.9  | 15  |
| 215 | Water sources of plant uptake along a salt marsh flooding gradient. <i>Oecologia</i> , <b>2018</b> , 188, 607-622  | 2.9  | 3   |
| 214 | Effects of Inundation, Nutrient Availability and Plant Species Diversity on Fine Root Mass and Morphology Across a Saltmarsh Flooding Gradient. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 98  | 6.2  | 25  |
| 213 | Legacy effects of land-use modulate tree growth responses to climate extremes. <i>Oecologia</i> , <b>2018</b> , 187, 825-837   | 2.9  | 22  |

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| 212 | A belowground perspective of temperate old-growth forests: Fine root system structure in beech primeval and production forests. <i>Forest Ecology and Management</i> , <b>2018</b> , 425, 68-74  | 3.9  | 1  |
| 211 | Contrasting species responses to continued nitrogen and phosphorus addition in tropical montane forest tree seedlings. <i>Biotropica</i> , <b>2018</b> , 50, 234-245   | 2.3  | 17 |
| 210 | Effects of shade tree cover and diversity on root system structure and dynamics in cacao agroforests: The role of root competition and space partitioning. <i>Plant and Soil</i> , <b>2018</b> , 422, 349-369                                | 4.2  | 9  |
| 209 | Classifying development stages of primeval European beech forests: is clustering a useful tool?. <i>BMC Ecology</i> , <b>2018</b> , 18, 47   | 2.7  | 19 |
| 208 | The ecology of Central European tree species: Trait spectra, functional trade-offs, and ecological classification of adult trees. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , <b>2018</b> , 33, 89-103                 | 3    | 33 |
| 207 | Higher drought sensitivity of radial growth of European beech in managed than in unmanaged forests. <i>Science of the Total Environment</i> , <b>2018</b> , 642, 1201-1208   | 10.2 | 24 |
| 206 | Forty years of vegetation change in former coppice-with-standards woodlands as a result of management change and N deposition. <i>Applied Vegetation Science</i> , <b>2017</b> , 20, 304-313   | 3.3  | 33 |
| 205 | Root exudation patterns in a beech forest: Dependence on soil depth, root morphology, and environment. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 107, 188-197   | 7.5  | 53 |
| 204 | Foliar water uptake, a widespread phenomenon in temperate woodland ferns?. <i>Plant Ecology</i> , <b>2017</b> , 218, 555-563   | 1.7  | 11 |
| 203 | Higher climate warming sensitivity of Siberian larch in small than large forest islands in the fragmented Mongolian forest steppe. <i>Global Change Biology</i> , <b>2017</b> , 23, 3675-3689  | 11.4 | 25 |
| 202 | Long-term change in understorey plant communities of conventionally managed temperate deciduous forests: effects of nitrogen deposition and forest management. <i>Journal of Vegetation Science</i> , <b>2017</b> , 28, 747-761              | 3.1  | 15 |
| 201 | European beech responds to climate change with growth decline at lower, and growth increase at higher elevations in the center of its distribution range (SW Germany). <i>Trees - Structure and Function</i> , <b>2017</b> , 31, 673-686     | 2.6  | 58 |
| 200 | Diversity, endemism, and composition of tropical mountain forest communities in Sulawesi, Indonesia, in relation to elevation and soil properties. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , <b>2017</b> , 27, 68-79 | 3    | 15 |
| 199 | Recent Climate Warming-Related Growth Decline Impairs European Beech in the Center of Its Distribution Range. <i>Ecosystems</i> , <b>2017</b> , 20, 1494-1511  | 3.9  | 35 |
| 198 | Effects of forest management on stand leaf area: Comparing beech production and primeval forests in Slovakia. <i>Forest Ecology and Management</i> , <b>2017</b> , 389, 76-85  | 3.9  | 18 |
| 197 | Vulnerability analysis of the rare and endangered woodland fern <i>Polystichum braunii</i> in Germany: three possible causes of population decline. <i>Plant Ecology and Diversity</i> , <b>2017</b> , 10, 329-342                           | 2.2  | 1  |
| 196 | Age structure and trends in annual stem increment of <i>Larix sibirica</i> in two neighboring Mongolian forest-steppe regions differing in land use history. <i>Trees - Structure and Function</i> , <b>2017</b> , 31, 1973-1986             | 2.6  | 8  |
| 195 | Comparing the plant diversity of paired beech primeval and production forests: Management reduces cryptogam, but not vascular plant species richness. <i>Forest Ecology and Management</i> , <b>2017</b> , 400, 58-67                        | 3.9  | 21 |



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| 194 | Calibration and comparison of thermal dissipation, heat ratio and heat field deformation sap flow probes for diffuse-porous trees. <i>Agricultural and Forest Meteorology</i> , <b>2017</b> , 244-245, 151-161                 | 5.8  | 51  |
| 193 | Acclimation of leaf water status and stem hydraulics to drought and tree neighbourhood: alternative strategies among the saplings of five temperate deciduous tree species. <i>Tree Physiology</i> , <b>2017</b> , 37, 456-468 | 4.2  | 17  |
| 192 | Fine Root Abundance and Dynamics of Stone Pine () at the Alpine Treeline Is Not Impaired by Self-shading. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 602   | 6.2  | 8   |
| 191 | Influence of Root Diameter and Soil Depth on the Xylem Anatomy of Fine- to Medium-Sized Roots of Mature Beech Trees in the Top- and Subsoil. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1194                         | 6.2  | 10  |
| 190 | De novo transcriptome assembly and analysis of differential gene expression in response to drought in European beech. <i>PLoS ONE</i> , <b>2017</b> , 12, e0184167   | 3.7  | 20  |
| 189 | Ecology of Central European Forests <b>2017</b> ,  |      | 121 |
| 188 | How adaptable is the hydraulic system of European beech in the face of climate change-related precipitation reduction?. <i>New Phytologist</i> , <b>2016</b> , 210, 443-58   | 9.8  | 115 |
| 187 | Carbon pool densities and a first estimate of the total carbon pool in the Mongolian forest-steppe. <i>Global Change Biology</i> , <b>2016</b> , 22, 830-44  | 11.4 | 26  |
| 186 | Conversion of tropical lowland forest reduces nutrient return through litterfall, and alters nutrient use efficiency and seasonality of net primary production. <i>Oecologia</i> , <b>2016</b> , 180, 601-18                   | 2.9  | 46  |
| 185 | Species-specific effects of temperate trees on greenhouse gas exchange of forest soil are diminished by drought. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 95, 122-134  | 7.5  | 12  |
| 184 | Evapotranspiration and water balance of high-elevation grassland on the Tibetan Plateau. <i>Journal of Hydrology</i> , <b>2016</b> , 533, 557-566  | 6    | 28  |
| 183 | Global warming-related tree growth decline and mortality on the north-eastern Tibetan plateau. <i>Climatic Change</i> , <b>2016</b> , 134, 163-176   | 4.5  | 106 |
| 182 | Opposing effects of nitrogen versus phosphorus additions on mycorrhizal fungal abundance along an elevational gradient in tropical montane forests. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 94, 37-47             | 7.5  | 39  |
| 181 | Cacao Cultivation under Diverse Shade Tree Cover Allows High Carbon Storage and Sequestration without Yield Losses. <i>PLoS ONE</i> , <b>2016</b> , 11, e0149949   | 3.7  | 39  |
| 180 | Fine Root Productivity and Turnover of Ectomycorrhizal and Arbuscular Mycorrhizal Tree Species in a Temperate Broad-Leaved Mixed Forest. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1233                             | 6.2  | 20  |
| 179 | Ecological and socio-economic functions across tropical land use systems after rainforest conversion. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 371,                       | 5.8  | 143 |
| 178 | Change in the bryophyte diversity and species composition of Central European temperate broad-leaved forests since the late nineteenth century. <i>Biodiversity and Conservation</i> , <b>2016</b> , 25, 2071-2091             | 3.4  | 8   |
| 177 | Anomalous Increase in Winter Temperature and Decline in Forest Growth Associated with Severe Winter Smog in the Ulan Bator Basin. <i>Water, Air, and Soil Pollution</i> , <b>2016</b> , 227, 1                                 | 2.6  | 4   |

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| 176 | Relationship between species diversity, biomass and light transmittance in temperate semi-natural grasslands: is productivity enhanced by complementary light capture?. <i>Journal of Vegetation Science</i> , <b>2016</b> , 27, 144-155        | 3.1 | 11  |
| 175 | Species diversity and identity effects on the water consumption of tree sapling assemblages under ample and limited water supply. <i>Oikos</i> , <b>2016</b> , 125, 86-97   | 4   | 21  |
| 174 | Carbon pools of semi-arid <i>Picea crassifolia</i> forests in the Qilian Mountains (north-eastern Tibetan Plateau). <i>Forest Ecology and Management</i> , <b>2015</b> , 343, 136-143   | 3.9 | 25  |
| 173 | Climate Warming-Related Growth Decline Affects <i>Fagus sylvatica</i> , But Not Other Broad-Leaved Tree Species in Central European Mixed Forests. <i>Ecosystems</i> , <b>2015</b> , 18, 560-572  | 3.9 | 100 |
| 172 | Nitrogen mineralization peaks under closed canopy during the natural forest development cycle of an old-growth temperate spruce forest. <i>Annals of Forest Science</i> , <b>2015</b> , 72, 67-76   | 3.1 | 4   |
| 171 | Hydraulic properties and fine root mass of <i>Larix sibirica</i> along forest edge-interior gradients. <i>Acta Oecologica</i> , <b>2015</b> , 63, 28-35   | 1.7 | 14  |
| 170 | Do ectomycorrhizal and arbuscular mycorrhizal temperate tree species systematically differ in root order-related fine root morphology and biomass?. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 64                                     | 6.2 | 24  |
| 169 | Mechanical abrasion, and not competition for light, is the dominant canopy interaction in a temperate mixed forest. <i>Forest Ecology and Management</i> , <b>2015</b> , 348, 108-116   | 3.9 | 46  |
| 168 | Arable plant diversity on conventional cropland—The role of crop species, management and environment. <i>Agriculture, Ecosystems and Environment</i> , <b>2015</b> , 213, 151-163   | 5.7 | 16  |
| 167 | Harnessing the biodiversity value of Central and Eastern European farmland. <i>Diversity and Distributions</i> , <b>2015</b> , 21, 722-730  | 5   | 130 |
| 166 | Effects of flooding on trees in the semi-deciduous transition forests of the Araguaia floodplain, Brazil. <i>Acta Oecologica</i> , <b>2015</b> , 69, 21-30  | 1.7 | 10  |
| 165 | Does reduced precipitation trigger physiological and morphological drought adaptations in European beech ( <i>Fagus sylvatica</i> L.)? Comparing provenances across a precipitation gradient. <i>Tree Physiology</i> , <b>2015</b> , 35, 949-63 | 4.2 | 36  |
| 164 | Historical and recent fragmentation of temperate floodplain grasslands: Do patch size and distance affect the richness of characteristic wet meadow plant species?. <i>Folia Geobotanica</i> , <b>2015</b> , 50, 253-266                        | 1.4 | 18  |
| 163 | Effects of tree identity dominate over tree diversity on the soil microbial community structure. <i>Soil Biology and Biochemistry</i> , <b>2015</b> , 81, 219-227   | 7.5 | 63  |
| 162 | Cloud water interception and element deposition differ largely between Norway spruce stands along an elevation transect in Harz Mountains, Germany. <i>Ecohydrology</i> , <b>2015</b> , 8, 1048-1064  | 2.5 | 6   |
| 161 | Both local and landscape factors determine plant and Orthoptera diversity in the semi-natural grasslands of Transylvania, Romania. <i>Biodiversity and Conservation</i> , <b>2015</b> , 24, 229-245   | 3.4 | 16  |
| 160 | Ammonium, nitrate and glycine uptake of six Ecuadorian tropical montane forest tree species: an in situ pot experiment with saplings. <i>Journal of Tropical Ecology</i> , <b>2015</b> , 31, 139-152  | 1.3 | 6   |
| 159 | Climatic Drivers of Mast Fruiting in European Beech and Resulting C and N Allocation Shifts. <i>Ecosystems</i> , <b>2015</b> , 18, 1083-1100  | 3.9 | 30  |



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| 158 | Quantifying above- and belowground biomass carbon loss with forest conversion in tropical lowlands of Sumatra (Indonesia). <i>Global Change Biology</i> , <b>2015</b> , 21, 3620-34  | 11.4 | 109 |
| 157 | Detecting long-term losses at the plant community level Barable fields in Germany revisited. <i>Applied Vegetation Science</i> , <b>2015</b> , 18, 432-442   | 3.3  | 21  |
| 156 | Deforestation and Forest Fragmentation in South Ecuador since the 1970s - Losing a Hotspot of Biodiversity. <i>PLoS ONE</i> , <b>2015</b> , 10, e0133701   | 3.7  | 103 |
| 155 | Species identity and neighbor size surpass the impact of tree species diversity on productivity in experimental broad-leaved tree sapling assemblages under dry and moist conditions. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 857 | 6.2  | 15  |
| 154 | Stem increment and hydraulic architecture of a boreal conifer ( <i>Larix sibirica</i> ) under contrasting macroclimates. <i>Trees - Structure and Function</i> , <b>2015</b> , 29, 623-636   | 2.6  | 15  |
| 153 | Complementarity in the use of nitrogen forms in a temperate broad-leaved mixed forest. <i>Plant Ecology and Diversity</i> , <b>2015</b> , 8, 243-258   | 2.2  | 19  |
| 152 | Chemical properties of decaying wood in an old-growth spruce forest and effects on soil chemistry. <i>Biogeochemistry</i> , <b>2015</b> , 122, 1-13  | 3.8  | 11  |
| 151 | European beech grows better and is less drought sensitive in mixed than in pure stands: tree neighbourhood effects on radial increment. <i>Trees - Structure and Function</i> , <b>2014</b> , 28, 777-792                                      | 2.6  | 44  |
| 150 | Relationships between the diversity patterns of vascular plants, lichens and invertebrates in the Central Asian forest-steppe ecotone. <i>Biodiversity and Conservation</i> , <b>2014</b> , 23, 1105-1117                                      | 3.4  | 11  |
| 149 | Predicting the distribution of forest habitat types using indicator species to facilitate systematic conservation planning. <i>Ecological Indicators</i> , <b>2014</b> , 37, 131-144   | 5.8  | 18  |
| 148 | Climate effects on inter- and intra-annual larch stemwood anomalies in the Mongolian forest-steppe. <i>Acta Oecologica</i> , <b>2014</b> , 55, 113-121   | 1.7  | 20  |
| 147 | Relationships between macrophyte vegetation and physical and chemical conditions in northwest German running waters. <i>Aquatic Botany</i> , <b>2014</b> , 113, 46-55  | 1.8  | 26  |
| 146 | Response of tree-ring width to climate warming and selective logging in larch forests of the Mongolian Altai. <i>Journal of Plant Ecology</i> , <b>2014</b> , 7, 24-38   | 1.7  | 48  |
| 145 | The significance of deadwood for total bryophyte, lichen, and vascular plant diversity in an old-growth spruce forest. <i>Plant Ecology</i> , <b>2014</b> , 215, 1123-1137   | 1.7  | 55  |
| 144 | The importance of hydraulic conductivity and wood density to growth performance in eight tree species from a tropical semi-dry climate. <i>Forest Ecology and Management</i> , <b>2014</b> , 330, 126-136                                      | 3.9  | 52  |
| 143 | Trade-offs between xylem hydraulic properties, wood anatomy and yield in <i>Populus</i> . <i>Tree Physiology</i> , <b>2014</b> , 34, 744-56  | 4.2  | 49  |
| 142 | Nutrient dynamics along a precipitation gradient in European beech forests. <i>Biogeochemistry</i> , <b>2014</b> , 120, 51-69  | 3.8  | 19  |
| 141 | Diversity and species identity effects on fine root productivity and turnover in a species-rich temperate broad-leaved forest. <i>Functional Plant Biology</i> , <b>2014</b> , 41, 678-689   | 2.7  | 22  |

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| 140 | Sixty years of change in the macrophyte vegetation of north-west German running waters: a community- and landscape-level analysis. <i>Feddes Repertorium</i> , <b>2014</b> , 125, 98-120  | 0.4  | 2   |
| 139 | Intra-specific variations in expression of stress-related genes in beech progenies are stronger than drought-induced responses. <i>Tree Physiology</i> , <b>2014</b> , 34, 1348-61  | 4.2  | 34  |
| 138 | Inter-relationships between crop type, management intensity and light transmissivity in annual crop systems and their effect on farmland plant diversity. <i>Agriculture, Ecosystems and Environment</i> , <b>2014</b> , 195, 173-182 | 5.7  | 13  |
| 137 | Replicated throughfall exclusion experiment in an Indonesian perhumid rainforest: wood production, litter fall and fine root growth under simulated drought. <i>Global Change Biology</i> , <b>2014</b> , 20, 1481-97                 | 11.4 | 39  |
| 136 | Forest Continuity as a Key Determinant of Soil Carbon and Nutrient Storage in Beech Forests on Sandy Soils in Northern Germany. <i>Ecosystems</i> , <b>2014</b> , 17, 497-511   | 3.9  | 25  |
| 135 | Root order- and root age-dependent response of two poplar species to belowground competition. <i>Plant and Soil</i> , <b>2014</b> , 377, 337-355  | 4.2  | 19  |
| 134 | Assessing future suitability of tree species under climate change by multiple methods: a case study in southern Germany. <i>Annals of Forest Research</i> , <b>2014</b> , 60,   | 2.4  | 35  |
| 133 | Low light acclimation in five temperate broad-leaved tree species of different successional status: the significance of a shade canopy. <i>Annals of Forest Science</i> , <b>2013</b> , 70, 557-570                                   | 3.1  | 19  |
| 132 | Root trait responses of six temperate grassland species to intensive mowing and NPK fertilisation: a field study in a temperate grassland. <i>Plant and Soil</i> , <b>2013</b> , 373, 687-698   | 4.2  | 26  |
| 131 | Fine root morphological and functional traits in <i>Fagus sylvatica</i> and <i>Fraxinus excelsior</i> saplings as dependent on species, root order and competition. <i>Plant and Soil</i> , <b>2013</b> , 373, 143-156                | 4.2  | 25  |
| 130 | Climate Responses of Aboveground Productivity and Allocation in <i>Fagus sylvatica</i> : A Transect Study in Mature Forests. <i>Ecosystems</i> , <b>2013</b> , 16, 1498-1516  | 3.9  | 45  |
| 129 | Physiological vs. morphological traits controlling the productivity of six aspen full-sib families. <i>Biomass and Bioenergy</i> , <b>2013</b> , 56, 274-283  | 5.3  | 7   |
| 128 | Dramatic losses of specialist arable plants in Central Germany since the 1950s/60s: a cross-regional analysis. <i>Diversity and Distributions</i> , <b>2013</b> , 19, 1175-1187   | 5    | 91  |
| 127 | Competition effects on fine root survival of <i>Fagus sylvatica</i> and <i>Fraxinus excelsior</i> . <i>Forest Ecology and Management</i> , <b>2013</b> , 302, 14-22   | 3.9  | 29  |
| 126 | Fine root biomass and dynamics in beech forests across a precipitation gradient: Is optimal resource partitioning theory applicable to water-limited mature trees?. <i>Journal of Ecology</i> , <b>2013</b> , 101, 1183-1200          | 6    | 114 |
| 125 | Lichen substance concentrations in the lichen <i>Hypogymnia physodes</i> are correlated with heavy metal concentrations in the substratum. <i>Environmental and Experimental Botany</i> , <b>2013</b> , 85, 58-63                     | 5.9  | 24  |
| 124 | On the significance of belowground overyielding in temperate mixed forests: separating species identity and species diversity effects. <i>Oikos</i> , <b>2013</b> , 122, 463-473  | 4    | 40  |
| 123 | Management alters interspecific leaf trait relationships and trait-based species rankings in permanent meadows. <i>Journal of Vegetation Science</i> , <b>2013</b> , 24, 239-250  | 3.1  | 19  |

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| 122 | Seedling emergence and establishment of <i>Pinus sylvestris</i> in the Mongolian forest-steppe ecotone. <i>Plant Ecology</i> , <b>2013</b> , 214, 139-152   | 1.7 | 16 |
| 121 | Root-induced tree species effects on the source/sink strength for greenhouse gases (CH <sub>4</sub> , N <sub>2</sub> O and CO <sub>2</sub> ) of a temperate deciduous forest soil. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 57, 587-597 | 7.5 | 33 |
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| 119 | Extremely low fine root biomass in <i>Larix sibirica</i> forests at the southern drought limit of the boreal forest. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2013</b> , 208, 488-496                              | 1.9 | 26 |
| 118 | The relationship between tree species richness, canopy space exploration and productivity in a temperate broad-leaf mixed forest. <i>Forest Ecology and Management</i> , <b>2013</b> , 310, 366-374   | 3.9 | 53 |
| 117 | Response of ground vegetation and epiphyte diversity to natural age dynamics in a Central European mountain spruce forest. <i>Journal of Vegetation Science</i> , <b>2013</b> , 24, 675-687   | 3.1 | 19 |
| 116 | Roots from beech ( <i>Fagus sylvatica</i> L.) and ash ( <i>Fraxinus excelsior</i> L.) differentially affect soil microorganisms and carbon dynamics. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 61, 23-32                                 | 7.5 | 48 |
| 115 | Dramatic diversity losses in epiphytic lichens in temperate broad-leaved forests during the last 150years. <i>Biological Conservation</i> , <b>2013</b> , 157, 136-145  | 6.2 | 53 |
| 114 | Consistent patterns of elevational change in tree taxonomic and phylogenetic diversity across Malesian mountain forests. <i>Journal of Biogeography</i> , <b>2013</b> , 40, 1997-2010   | 4.1 | 56 |
| 113 | Diversity loss in the macrophyte vegetation of northwest German streams and rivers between the 1950s and 2010. <i>Hydrobiologia</i> , <b>2013</b> , 713, 1-17   | 2.4 | 39 |
| 112 | Rhizosphere effects of tree species II Large reduction of N <sub>2</sub> O emission by saplings of ash, but not of beech, in temperate forest soil. <i>European Journal of Soil Biology</i> , <b>2013</b> , 54, 7-15                                | 2.9 | 7  |
| 111 | Significance of Over-Mature and Decaying Trees for Carbon Stocks in a Central European Natural Spruce Forest. <i>Ecosystems</i> , <b>2013</b> , 16, 336-346   | 3.9 | 27 |
| 110 | Increased Summer Temperatures Reduce the Growth and Regeneration of <i>Larix sibirica</i> in Southern Boreal Forests of Eastern Kazakhstan. <i>Ecosystems</i> , <b>2013</b> , 16, 1536-1549   | 3.9 | 54 |
| 109 | Contrasting responses of seedling and sapling densities to livestock density in the Mongolian forest-steppe. <i>Plant Ecology</i> , <b>2013</b> , 214, 1391-1403  | 1.7 | 25 |
| 108 | Conversion of tropical moist forest into cacao agroforest: consequences for carbon pools and annual C sequestration. <i>Agroforestry Systems</i> , <b>2013</b> , 87, 1173-1187  | 2   | 29 |
| 107 | Intraspecific variation in root and leaf traits and leaf-root trait linkages in eight aspen demes ( <i>Populus tremula</i> and <i>P. tremuloides</i> ). <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 415                                    | 6.2 | 35 |
| 106 | Effects of soil chemistry on tropical forest biomass and productivity at different elevations in the equatorial Andes. <i>Oecologia</i> , <b>2012</b> , 170, 263-74   | 2.9 | 51 |
| 105 | Hydraulic properties and embolism in small-diameter roots of five temperate broad-leaved tree species with contrasting drought tolerance. <i>Annals of Forest Science</i> , <b>2012</b> , 69, 693-703   | 3.1 | 20 |

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| 104 | Altitudinal Change in the Photosynthetic Capacity of Tropical Trees: A Case Study from Ecuador and a Pantropical Literature Analysis. <i>Ecosystems</i> , <b>2012</b> , 15, 958-973                                 | 3.9  | 21  |
| 103 | Fifty years of change in Central European grassland vegetation: Large losses in species richness and animal-pollinated plants. <i>Biological Conservation</i> , <b>2012</b> , 150, 76-85                            | 6.2  | 143 |
| 102 | The diversity-productivity relationship in a permanent temperate grassland: negative diversity effect, dominant influence of management regime. <i>Plant Ecology and Diversity</i> , <b>2012</b> , 5, 265-274       | 2.2  | 20  |
| 101 | Different growth strategies determine the carbon gain and productivity of aspen collectives to be used in short-rotation plantations. <i>Biomass and Bioenergy</i> , <b>2012</b> , 46, 242-250                      | 5.3  | 4   |
| 100 | The inhibiting effect of nitrate fertilisation on methane uptake of a temperate forest soil is influenced by labile carbon. <i>Biology and Fertility of Soils</i> , <b>2012</b> , 48, 621-631                       | 6.1  | 26  |
| 99  | Effects of fertilization and cutting frequency on the water balance of a temperate grassland. <i>Ecohydrology</i> , <b>2012</b> , 5, 64-72  | 2.5  | 18  |
| 98  | Environmental control of daily stem growth patterns in five temperate broad-leaved tree species. <i>Tree Physiology</i> , <b>2012</b> , 32, 1021-32   | 4.2  | 66  |
| 97  | 3D-laser scanning: A non-destructive method for studying above- ground biomass and growth of juvenile trees. <i>Agricultural and Forest Meteorology</i> , <b>2011</b> , 151, 1305-1311                              | 5.8  | 40  |
| 96  | Crown plasticity in mixed forests-Quantifying asymmetry as a measure of competition using terrestrial laser scanning. <i>Forest Ecology and Management</i> , <b>2011</b> , 261, 2123-2132                           | 3.9  | 70  |
| 95  | Elevation effects on the carbon budget of tropical mountain forests (S Ecuador): the role of the belowground compartment. <i>Global Change Biology</i> , <b>2011</b> , 17, 2211-2226                                | 11.4 | 127 |
| 94  | Root functioning in tropical high-elevation forests: Environmental vs. biological control of root water absorption. <i>Environmental and Experimental Botany</i> , <b>2011</b> , 71, 329-329                        | 5.9  | 8   |
| 93  | Minor changes in orthopteran assemblages of Central European protected dry grasslands during the last 40 years. <i>Journal of Insect Conservation</i> , <b>2011</b> , 15, 811-822                                   | 2.1  | 13  |
| 92  | Habitat loss of floodplain meadows in north Germany since the 1950s. <i>Biodiversity and Conservation</i> , <b>2011</b> , 20, 2347-2364   | 3.4  | 66  |
| 91  | $\delta^{13}\text{C}$ signature of tree rings and radial increment of <i>Fagus sylvatica</i> trees as dependent on tree neighborhood and climate. <i>Trees - Structure and Function</i> , <b>2011</b> , 25, 215-229 | 2.6  | 25  |
| 90  | Multiple environmental control of leaf area and its significance for productivity in beech saplings. <i>Trees - Structure and Function</i> , <b>2011</b> , 25, 847-857  | 2.6  | 11  |
| 89  | Review of ground-based methods to measure the distribution of biomass in forest canopies. <i>Annals of Forest Science</i> , <b>2011</b> , 68, 225-244   | 3.1  | 52  |
| 88  | Climate response of tree-ring width in <i>Larix sibirica</i> growing in the drought-stressed forest-steppe ecotone of northern Mongolia. <i>Annals of Forest Science</i> , <b>2011</b> , 68, 275-282                | 3.1  | 38  |
| 87  | Comparison of conventional eight-point crown projections with LIDAR-based virtual crown projections in a temperate old-growth forest. <i>Annals of Forest Science</i> , <b>2011</b> , 68, 1173-1185                 | 3.1  | 21  |

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| 86 | Environment and tree size controlling stem sap flux in a perhumid tropical forest of Central Sulawesi, Indonesia. <i>Annals of Forest Science</i> , <b>2011</b> , 68, 1027-1038                                     | 3.1  | 54  |
| 85 | Small increase in substratum [corrected] pH causes the dieback of one of Europe's most common lichens, <i>Lecanora conizaeoides</i> . <i>Annals of Botany</i> , <b>2011</b> , 108, 359-66                           | 4.1  | 14  |
| 84 | Tree Diversity, Forest Structure and Productivity along Altitudinal and Topographical Gradients in a Species-Rich Ecuadorian Montane Rain Forest. <i>Biotropica</i> , <b>2010</b> , 42, 140-148                     | 2.3  | 196 |
| 83 | Effects of an experimental drought on the functioning of a cacao agroforestry system, Sulawesi, Indonesia. <i>Global Change Biology</i> , <b>2010</b> , 16, 1515-1530   | 11.4 | 66  |
| 82 | Variation of soil and biomass carbon pools in beech forests across a precipitation gradient. <i>Global Change Biology</i> , <b>2010</b> , 16, 1035-1045   | 11.4 | 78  |
| 81 | Forest aboveground biomass along an elevational transect in Sulawesi, Indonesia, and the role of Fagaceae in tropical montane rain forests. <i>Journal of Biogeography</i> , <b>2010</b> , 37, 960-974              | 4.1  | 91  |
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| 79 | Biomass and productivity of fine and coarse roots in five tropical mountain forests stands along an altitudinal transect in southern Ecuador. <i>Plant Ecology and Diversity</i> , <b>2010</b> , 3, 151-164         | 2.2  | 14  |
| 78 | Factors controlling the abundance of lianas along an altitudinal transect of tropical forests in Ecuador. <i>Forest Ecology and Management</i> , <b>2010</b> , 259, 1399-1405                                       | 3.9  | 33  |
| 77 | Gypsy moth-induced growth decline of <i>Larix sibirica</i> in a forest-steppe ecotone. <i>Dendrochronologia</i> , <b>2010</b> , 28, 207-213   | 2.8  | 24  |
| 76 | N, P and K limitation of fine root growth along an elevation transect in tropical mountain forests. <i>Acta Oecologica</i> , <b>2010</b> , 36, 537-542  | 1.7  | 27  |
| 75 | Productivity of temperate broad-leaved forest stands differing in tree species diversity. <i>Annals of Forest Science</i> , <b>2010</b> , 67, 503-503   | 3.1  | 88  |
| 74 | Norstictic acid: Correlations between its physico-chemical characteristics and ecological preferences of lichens producing this depsidone. <i>Environmental and Experimental Botany</i> , <b>2010</b> , 68, 309-313 | 5.0  | 23  |
| 73 | Patterns of wood carbon dioxide efflux across a 2,000-m elevation transect in an Andean moist forest. <i>Oecologia</i> , <b>2010</b> , 162, 127-37  | 2.9  | 11  |
| 72 | Diverging climate trends in Mongolian taiga forests influence growth and regeneration of <i>Larix sibirica</i> . <i>Oecologia</i> , <b>2010</b> , 163, 1091-102   | 2.9  | 71  |
| 71 | Diverging temperature response of tree stem CO <sub>2</sub> release under dry and wet season conditions in a tropical montane moist forest. <i>Trees - Structure and Function</i> , <b>2010</b> , 24, 285-296       | 2.6  | 10  |
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| 69 | Does root competition asymmetry increase with water availability?. <i>Plant Ecology and Diversity</i> , <b>2009</b> , 2, 255-264  | 2.2  | 20  |

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| 68 | Acidity, nutrient stocks, and organic-matter content in soils of a temperate deciduous forest with different abundance of European beech ( <i>Fagus sylvatica</i> L.). <i>Journal of Plant Nutrition and Soil Science</i> , <b>2009</b> , 172, 500-511 | 2.3  | 125 |
| 67 | Dissociation and metal-binding characteristics of yellow lichen substances suggest a relationship with site preferences of lichens. <i>Annals of Botany</i> , <b>2009</b> , 103, 13-22   | 4.1  | 60  |
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| 64 | Functional role of forest diversity: Pros and cons of synthetic stands and across-site comparisons in established forests. <i>Basic and Applied Ecology</i> , <b>2009</b> , 10, 1-9  | 3.2  | 101 |
| 63 | Performance of Siberian elm ( <i>Ulmus pumila</i> ) on steppe slopes of the northern Mongolian mountain taiga: Drought stress and herbivory in mature trees. <i>Environmental and Experimental Botany</i> , <b>2009</b> , 66, 18-24                    | 5.9  | 30  |
| 62 | Iron and phosphate uptake in epiphytic and saxicolous lichens differing in their pH requirements. <i>Environmental and Experimental Botany</i> , <b>2009</b> , 67, 133-138   | 5.9  | 8   |
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| 59 | Root Growth and Recovery in Temperate Broad-Leaved Forest Stands Differing in Tree Species Diversity. <i>Ecosystems</i> , <b>2009</b> , 12, 1103-1116  | 3.9  | 51  |
| 58 | Biomass and morphology of fine roots in temperate broad-leaved forests differing in tree species diversity: is there evidence of below-ground overyielding?. <i>Oecologia</i> , <b>2009</b> , 161, 99-111  | 2.9  | 116 |
| 57 | No evidence of spatial root system segregation and elevated fine root biomass in multi-species temperate broad-leaved forests. <i>Trees - Structure and Function</i> , <b>2009</b> , 23, 941-950   | 2.6  | 70  |
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| 55 | Lichen substances prevent lichens from nutrient deficiency. <i>Journal of Chemical Ecology</i> , <b>2009</b> , 35, 71-3  | 2.7  | 44  |
| 54 | Recent drought stress leads to growth reductions in <i>Larix sibirica</i> in the western Khentey, Mongolia. <i>Global Change Biology</i> , <b>2009</b> , 16, no-no   | 11.4 | 30  |
| 53 | The relationships between abundance, range size and niche breadth in Central European tree species. <i>Journal of Biogeography</i> , <b>2009</b> , 36, 854-864   | 4.1  | 35  |
| 52 | Air humidity, soil moisture and soil chemistry as determinants of the herb layer composition in European beech forests. <i>Journal of Vegetation Science</i> , <b>2009</b> , 20, 288-298   | 3.1  | 37  |
| 51 | Leaf water status and stem xylem flux in relation to soil drought in five temperate broad-leaved tree species with contrasting water use strategies. <i>Annals of Forest Science</i> , <b>2009</b> , 66, 101-101                                       | 3.1  | 100 |



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| 48 | Abundance, niche breadth, and niche occupation of Central European tree species in the centre and at the margin of their distribution range. <i>Forest Ecology and Management</i> , <b>2009</b> , 258, 1248-1259  | 3.9  | 19  |
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| 43 | Element uptake in thalli of the lichen <i>Physcia caesia</i> from sandstone and calcareous substratum. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2009</b> , 172, 839-842  | 2.3  | 2   |
| 42 | Belowground drought response of European beech: fine root biomass and carbon partitioning in 14 mature stands across a precipitation gradient. <i>Global Change Biology</i> , <b>2008</b> , 14, 2081-2095   | 11.4 | 153 |
| 41 | Growth of European beech ( <i>Fagus sylvatica</i> L.) saplings is limited by elevated atmospheric vapour pressure deficits. <i>Forest Ecology and Management</i> , <b>2008</b> , 256, 648-655   | 3.9  | 73  |
| 40 | Effects of experimental drought on the fine root system of mature Norway spruce. <i>Forest Ecology and Management</i> , <b>2008</b> , 256, 1151-1159  | 3.9  | 90  |
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| 13 | Size and Structure of Fine Root Systems in Old-growth and Secondary Tropical Montane Forests (Costa Rica)1. <i>Biotropica</i> , <b>2003</b> , 35, 143   | 2.3 | 38  |
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