

List of publications by Christian Körner

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2025

Bouriaud O, Schulze ED, Gregor K, Boukhris I, Högberg P, Irlinger R, Papastefanou P, Pongratz J, Rammig A, Valentini R, Körner C (2025) A saturating response of photosynthesis to an increasing leaf area index allows selective harvest of trees without affecting forest productivity. *Biogeosciences* 22: 4729-4741. <https://doi.org/10.5194/bg-22-4729-2025>

Jin HY, Yin XQ, Qi Y, DeVos JM, Sun H, Körner C, Yang Y (2025) How phenology interacts with frost tolerance in Southeastern Himalayan *Rhododendron* species. *Tree Phys* 45:tpaf036. <https://doi.org/10.1093/treephys/tpaf036>

Körner C (2025) Kohlenstoff im Wald: Nutzen oder speichern? *Allg Forstzeitung* 17: 25-29

Körner C (2025) The mountain environment, its biodiversity and home of rare plant species. In: Chandra S, Lata H (eds) *High altitude medicinal plants - botany conservation and cultivation*. Springer Nature, Cham, p 1-10. <https://doi.org/10.1007/978-3-031-99406-7>

Xu JF, Wang T, Wang X, Körner C, Cao XY, Eryuan Liang E, Yang YP & Piao SL (2025) Late Quaternary fluctuation in upper range limit of trees shapes endemic flora diversity on the Tibetan Plateau. *Nature Comms* 16:1819 <https://doi.org/10.1038/s41467-025-57036-w>

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Körner C, Hiltbrunner E (2024) Rapid advance of climatic tree limits in the Eastern Alps explained by on-site temperatures. *Reg Environ Change* 24:98, <https://doi.org/10.1007/s10113-024-02259-8>

Körner C, Hiltbrunner E, Hoch G (2024) Experimental evidence, global patterns of treeline position and climate provide no substance for a lignin limitation hypothesis of tree growth. *Alp Bot* 134:81-85, <https://doi.org/10.1007/s00035-023-00305-5>

Meng F, Felton AJ, Mao J, Cong N, Smith WK, Körner C, Hu Z, Hong S, Knott J, Yan Y, Guo B, Deng Y, Leisz S, Dorji T, Wang S, Chen A (2024) Consistent time allocation fraction to vegetation green-up versus senescence across northern ecosystems despite recent climate change. *Sci Adv* 10:eadn2487, doi: 10.1126/sciadv.adn2487

Urbach D, Körner C, Hilpold A (2024) Mountain biodiversity under change. In: Schneiderbauer *et. al.* (eds) *Safeguarding Mountain Social-Ecological Systems*, Elsevier, pp 11-15 *Safeguarding Mountain Social-Ecological Systems*. <https://doi.org/10.1016/B978-0-12-822095-5.00002-4>

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Dietrich L, Kahmen A, Hoch G, Körner C (2023) Reply to: The three-dimensional structure of wood enables horizontal water transport needed to conduct water around lesions. *Scientific Reports* 13:15066, doi.org/10.1038/s41598-023-41785-z

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