

List of publications by Christian Körner

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2023

- 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
- Hobbie, E.A., Siegwolf, R., Körner, C. *et al.* Weather modifies the spatial extent of carbohydrate transfers from CO₂-supplied broad-leaved trees to ectomycorrhizal fungi. *Plant Soil* (2023). <https://doi.org/10.1007/s11104-023-06314-x>
- Körner C (2023) Concepts in alpine plant ecology. *Plants*: 12:2666, <https://doi.org/10.3390/plants12142666>
- Körner C, Fajardo A, Hiltbrunner E (2023) Biogeographic implications of plant stature and microclimate in cold regions. *Comms Biol* 6: 663, <https://doi.org/10.1038/s42003-022-03732-y>
- Körner C, Hoch G (2023) Not every high-latitude or high-elevation forest edge is a treeline. *J Biogeogr* 50:838–845, <https://doi.org/10.1111/jbi.14593>
- Körner C, Lenz A, Hoch G (2023) Chronic in situ tissue cooling does not reduce lignification at the Swiss treeline but enhances the risk of ‘blue’ frost rings. *Alpine Bot* 133: 63-67, <https://doi.org/10.1007/s00035-023-00293-6>
- Körner C, Möhl P, Hiltbrunner E (2023) Four ways to define the growing season. *Ecol Letters* 26:1277-1292, <https://doi.org/10.1111/ele.14260>
- Liu JM, DeVos JM, Körner C, Yang Y (2023) Phylogeny and phenotypic adjustments drive functional traits in *Rhododendron* across elevations in its diversity hot-spot in W-China. *Alpine Bot* 133:69-84, <https://doi.org/10.1007/s00035-023-00294-5>

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- Bader MKF, Scherrer D, Zweifel R, Körner C (2022) Less pronounced drought responses in ring-porous than in diffuse-porous temperate tree species. *Agr For Met* 327:109184
- Gurgiser W, Price MF, Juen IF, Körner C, Bahn M, Gems B, Meyer M, Nicolussi K, Tappeiner U, Mayr S (2022) Rising slopes—Bibliometrics of mountain research 1900–2019. *PLoS One* 17:e0273421, <https://doi.org/10.1371/journal.pone.0273421>
- Körner C (2022) The forest’s nutrient cycle drives its carbon cycle. *Tree Physiol* 42:425-427
- Körner C, Berninger UG, Daim A, Eberl T, Fernandez Mendoza F, Fureder L, Grube M, Hainzer E, Kaiser R, Meyer E, Newsely C, Niedrist G, Niedrist GH, Petermann JS, Seeber J, Tappeiner U, Wickham S (2022) Long-term monitoring of high-elevation terrestrial and aquatic ecosystems in the Alps – a five-year synthesis. *Eco Mont* 14:48-69
- Körner C (2022) A global framework of mountain ecology. *Napalese Journal of Zoology* 6: 42-44
- Jiang N, Shen M, Ciais P, Campioli M, Penuelas J, Körner C, Cao R, Piao S, Liu L, Wang S, Liang E, Delpierre N, Soudani K, Rao Y, Montagnani L, Hörtnagl L, Paul-Limoges E, Myneni R, Wohlfahrt G, Fu Y, Sigut L, Varlagin A, Chen J, Tang Y, Zhao W (2022) Warming does not delay the start of autumnal leaf coloration but slows its progress rate. *Glob Ecol Biogeogr* 31:2297-2313
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- Hiltbrunner E, Arnaiz J, Körner C (2021) Biomass allocation and seasonal non-structural carbohydrate dynamics do not explain the success of all forbs in short alpine grassland. *Oecologia* 197:1063–1077, doi.org/10.1007/s00442-021-04950-7
- Körner C (2021) ‘Fading of the temperature-growth coupling’ in treeline trees reflects a conceptual bias. *Global Change Biology* 27:3951-3952, doi: 10.1111/gcb.15730
- Körner C (2021) The cold range limit of trees. *Trends Ecol Evol* 26:979-989, doi.org/10.1016/j.tree.2021.06.011
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- Körner C (2021) Tools shape paradigms of plant-environment interactions. *Progress in Botany* 82:1-42, doi.org/10.1007/124_2020_41
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