

Publication list Christine Alewell

As of Dezember 2022, 195 peer reviewed international papers, ISI Web of Science statistics: H-Index = 48, sum of citations = 9247; average citation per item: 49. Google Scholar Statistics: H-Index = 61, sum of citations = 14852; i10-index = 169.

For full list of publications, please see <https://duw.unibas.ch/de/personen/christine-alewell>.

Peer reviewed journals last five years

- 195 Scheper, S., Meusburger, K., Borrelli, P., Panagos, P., & Alewell, C. (2022). Occurrence and erosion susceptibility of German Pelosols and international equivalents. *Journal of Plant Nutrition and Soil Science*, 185, 821– 835. <https://doi.org/10.1002/jpln.202200024>
- 194 Wang, Y., Paul, S.M., Alewell, C. et al. Reduced nitrogen losses from drained temperate agricultural peatland after mineral soil coverage. *Biol Fertil Soils* (2022). <https://doi.org/10.1007/s00374-022-01689-y>
- 193 Serk H, Nilsson MB, Figueira J, Krüger JP, Leifeld J, Alewell C, Schleucher J. Organochemical Characterization of Peat Reveals Decomposition of Specific Hemicellulose Structures as the Main Cause of Organic Matter Loss in the Acrotelm. *Environ Sci Technol*. 2022 Dec 6;56(23):17410-17419. doi: 10.1021/acs.est.2c03513. Epub 2022 Nov 18. PMID: 36399683; PMCID: PMC9730845.
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- 190 Borrelli, P., Panagos, P., Alewell, C., Ballabio, C., de Oliveira Fagundes, H., Haregeweyn, N., Lugato, E., Maerker, M., Poesen, J., Vanmaercke, M. and Robinson, D.A., 2022. Policy implications of multiple concurrent soil erosion processes in European farmland. *Nature Sustainability*. DOI 10.1038/s41893-022-00988-4
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- 188 Groß-Schmolders, M., Klein, K., Emsens, W.-J., van Diggelen, R., Aggenbach, C.J.S., Liczner, Y., Frouz, J., Leifeld, J. and Alewell, C., 2022. Stable isotopes ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$) and biomarkers as indicators of the hydrological regime of fens in a European east–west transect. *Science of The Total Environment*, 838: 156603.
- 187 Chen, C., Huang, J.-H., Meusburger, K., Li, K., Fu, X., Rinklebe, J., Alewell, C. and Feng, X., 2022. The interplay between atmospheric deposition and soil dynamics of mercury in Swiss and Chinese boreal forests: A comparison study. *Environmental Pollution*, 307: 119483.
- 186 Wohlgemuth, L., Rautio, P., Ahrends, B., Russ, A., Vesterdal, L., Waldner, P., Timmermann, V., Eickenscheidt, N., Fürst, A., Greve, M., Roskams, P., Thimonier, A., Nicolas, M., Kowalska, A., Ingerslev, M., Merilä, P., Benham, S., Iacoban, C., Hoch, G., Alewell, C. and Jiskra, M., 2022. Physiological and climate controls on foliar mercury uptake by European tree species. *Biogeosciences*, 19(5): 1335-1353.
- 185 Wang, Y., Paul, S.M., Jocher, M., Alewell, C. and Leifeld, J., 2022. Reduced Nitrous Oxide Emissions From Drained Temperate Agricultural Peatland After Coverage With Mineral Soil. *Frontiers in Environmental Science*, 10.

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- 170 Kristy Klein , Miriam Gross-Schmölders , José María De la Rosa , Christine Alewell & Jens Leifeld (2020) Investigating the influence of instrumental parameters and chemical composition on pyrolysis efficiency of peat, *Communications in Soil Science and Plant Analysis*, 51:12, 1572-1581, DOI: 10.1080/00103624.2020.1784916
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- 168 Borrelli P, Robinson DA, Panagos P, Lugato E, Yang JE, Alewell C, Wuepper D, Montanarella L, Ballabio C. Land use and climate change impacts on global soil erosion by water (2015-2070). *Proc Natl Acad Sci U S A*. 2020 Sep 8;117(36):21994-22001. doi: 10.1073/pnas.2001403117. Epub 2020 Aug 24. PMID: 32839306; PMCID: PMC7486701.
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