

Publication list Christine Alewell**Peer reviewed journals**

- 175 Paul, S.M., Ammann, C., Alewell, C., Leifeld, J. 2021, Carbon budget response of an agriculturally used fen to different soil moisture conditions. *Agricultural and Forest Meteorology* 300, 108319. <https://doi.org/10.1016/j.agrformet.2021.108319>
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- 173 Wohlgenuth, L.; Osterwalder, S.; Joseph, C.; Kahmen, A.; Hoch, G.; Alewell, C.; Jiskra, M.. 2020. A bottom-up quantification of foliar mercury uptake fluxes across Europe. *Biogeosciences*. 17: p 6441-6456.
- 172 Samarin, M.; Zweifel, L., Roth, V., Alewell, C., Identifying Soil Erosion Processes in Alpine Grasslands on Aerial Imagery with a U-Net Convolutional Neural Network. *Remote sensing* 12/24, 4149
- 171 Hirave, P., M. Glendell, A. Birkholz, C. Alewell (2020). Compound-specific isotope analysis with nested sampling approach detects spatial and temporal variab..., *Science of the Total Environment*, <https://doi.org/10.1016/j.scitotenv.2020.142916>
- 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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- 166 Meusburger, K., Evrard, O., Alewell, C., Borrelli, P., Cinelli, G., Ketterer, M., Mabit, L., Panagos, P., van Oost, K. and Ballabio, C., 2020. Plutonium aided reconstruction of caesium atmospheric fallout in European topsoils. *Scientific Reports*, 10(1): 11858. <https://doi.org/10.1038/s41598-020-68736-2>
- 165 Hirave, P., Wiesenberg, G. L. B., Birkholz, A., and Alewell, C.: Understanding the effects of early degradation on isotopic tracers: implications for sediment source attribution using compound-specific isotope analysis (CSIA), *Biogeosciences*, 17, 2169–2180, <https://doi.org/10.5194/bg-17-2169-2020>, 2020.
- 164 Zweifel, L., Meusburger, K. und Alewell, C. (2019) «Spatio-temporal pattern of soil degradation in a Swiss Alpine grassland catchment», *Remote sensing of environment*. Elsevier, 235, S. 111441. [doi: 10.1016/j.rse.2019.111441](https://doi.org/10.1016/j.rse.2019.111441).
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- 140 Osterwalder, S., Sommar, J., Åkerblom, S., Jocher, G., Fritsche, J., Nilsson, M.B., Bishop, K., Alewell, C., 2018. Comparative study of elemental mercury flux measurement techniques over a Fennoscandian boreal peatland. *Atmospheric Environment* 172, 16–25. <https://doi.org/10.1016/j.atmosenv.2017.10.025>
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