

## Publication List – Pascal Bohleber

### Articles in peer-reviewed journals

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- **Bohleber, P.**, Roman, M., Sala, M. & Barbante, C. (2020). *Imaging the impurity distribution in glacier ice cores with LA-ICP-MS*. Journal of Analytical Atomic Spectrometry. <https://doi.org/10.1039/DOJA00170H>
- **Bohleber, P.**, Casado, M., Ashworth, K., Baker, C. A., Belcher, A., Caccavo, J. A., ... & Winton, V. H. L. (2020). Successful practice in early career networks: insights from the polar sciences. *Advances in Geosciences*, 53, 1-14. <https://doi.org/10.5194/adgeo-53-1-2020>
- Lambrecht, A., Mayer, C., **Bohleber, P.**, & Aizen, V. (2020). High altitude accumulation and preserved climate information in the western Pamir, observations from the Fedchenko Glacier accumulation basin. *Journal of Glaciology*, 66(256), 219-230. <https://doi.org/10.1017/jog.2019.97>
- Licciulli, C., **Bohleber, P.**, Lier, J., Gagliardini, O., Hoelzle, M., and Eisen, O. (2019): *A full Stokes ice-flow model to assist the interpretation of millennial-scale ice cores at the high-Alpine drilling site Colle Gnifetti, Swiss/Italian Alps*. Journal of Glaciology, 2019, 1-14. <https://doi.org/10.1017/jog.2019.82>
- **Bohleber, P.** (2019). *Alpine ice cores as climate and environmental archives*. In: Oxford Research Encyclopedia of Climate Science. Oxford University Press. <http://dx.doi.org/10.1093/acrefore/9780190228620.013.743>
- Feng, Z., **Bohleber, P.**, Ebser, S., Ringena, L., Schmidt, M., Kersting, A., Hopkins, P., Hoffmann, H., Fischer, A., Aeschbach, W. and Oberthaler, M. (2019). *Dating glacier ice of the last millennium by quantum technology*. Proceedings of the National Academy of Sciences. <https://doi.org/10.1073/pnas.1816468116>
- **Bohleber, P.**, Hoffmann, H., Kerch, J., Sold, L., and Fischer, A. (2018). *Investigating cold based summit glaciers through direct access to the glacier base: a case study constraining the maximum age of Chli Titlis glacier, Switzerland*, The Cryosphere, 12, 401-412, <https://doi.org/10.5194/tc-12-401-2018>.
- **Bohleber, P.**, Erhardt, T., Spaulding, N., Hoffmann, H., Fischer, H., and Mayewski, P. (2018). *Temperature and mineral dust variability recorded in two low-accumulation Alpine ice cores over the last millennium*, Clim. Past, 14, 21-37, <https://doi.org/10.5194/cp-14-21-2018>.
- More, A. F., Spaulding, N. E., **Bohleber, P.**, Handley, M. J., Hoffmann, H., Korotkikh, E. V., ... & Mayewski, P. A. (2018). *The Role of Historical Context in Understanding Past Climate, Pollution and Health Data in Trans-disciplinary Studies: Reply to Comments on More et al., 2017*. GeoHealth, 2(5), 162-170.
- Spaulding, N., Sneed, S., Handley, M., **Bohleber, P.**, Kurbatov, A., Pearce, N., Erhardt, T. & Mayewski, P. (2017). *A New Multi-Element Method for LA-ICP-MS Data Acquisition From Glacier Ice Cores*, Environmental Science and Technology 51(22):13282-13287. <https://pubs.acs.org/doi/10.1021/acs.est.7b03950>.
- Hoffmann, H., Preunkert, S., Legrand, M., Leinfelder, D., **Bohleber, P.**, Friedrich, R., & Wagenbach, D. (2017). *A New Sample Preparation System for Micro-14C Dating of Glacier Ice with a First Application to a High Alpine Ice Core from Colle Gnifetti (Switzerland)*. Radiocarbon, 1-17. doi:10.1017/RDC.2017.99.
- Luongo, M. T., Kurbatov, A. V., Erhardt, T., Mayewski, P. A., McCormick, M., More, A. F., Spaulding, N. E., Wheatley, S. D., Yates, M. G. and **Bohleber, P. D.** (2017). *Possible Icelandic*

*Tephra Found in European Colle Gnifetti Glacier*. *Geochemistry, Geophysics, Geosystems*, 18. <https://doi.org/10.1002/2017GC007022>.

- More, A.F., Spaulding, N.E., **Bohleber, P.**, Handley, M.J., Hoffmann, H., Korotkikh, E.V., Kurbatov, A.V., Loveluck, C.P., Sneed, S.B., McCormick, M. & Mayewski, P.A. (2017). *Next generation ice core technology reveals true minimum natural levels of lead (Pb) in the atmosphere: insights from the Black Death*. *GeoHealth*, 1, doi:10.1002/2017GH000064.
- **Bohleber, P.**, Sold, L., Hardy, D.R., Schwikowski, M., Klenk, P., Fischer, A., Sirguey, P., Cullen, N.J., Potocki, M., Hoffmann, H. & Mayewski, P. (2017). *Ground-penetrating radar reveals ice thickness and undisturbed englacial layers at Kilimanjaro's Northern Ice Field*, *The Cryosphere*, 11, 469-482, doi:10.5194/tc-11-469-2017.
- Haines, S. A., Mayewski, P. A., Kurbatov, A. V., Sneed, S. B., Maasch, K. A., **Bohleber, P. D.**, Spaulding, N. E. & Dixon, D. A. (2016). *Ultra-High Resolution Snapshots of Three Multi-decadal Periods in an Antarctic Ice Core*. *Journal of Glaciology* 62, 31-36.
- Zipf, L., Merchel, S., **Bohleber, P.**, Rugel, G., & Scharf, A. (2016). *Exploring ice core drilling chips from a cold Alpine glacier for cosmogenic radionuclide ( $^{10}\text{Be}$ ) analysis*. *Results in Physics* 6, 78-79.
- Sneed, S., Mayewski, P., Sayre, W.G., Handley, M., Kurbatov, A., Taylor, K., **Bohleber, P.**, Wagenbach, D., Erhardt, T. & Spaulding, N. (2015). *New LA-ICP-MS cryocell and calibration technique for sub-millimeter analysis of ice cores*. *Journal of Glaciology* 61, 233-242.
- Diez, A., Eisen, O., Weikusat, I., Eichler, J., Hofstede, C., **Bohleber, P.**, Bohlen, T. & Polom, U. (2014). *Influence of ice crystal anisotropy on seismic velocity analysis*. *Annals of Glaciology* 55, 97-106.
- **Bohleber P.**, Wagenbach D., Schöner W. & Böhm R. (2013). *To what extent do water isotope time series from low accumulation Alpine ice cores reproduce instrumental temperature series?* *Tellus B* 65, 20148.
- Konrad, H., **Bohleber, P.**, Eisen, O. & Wagenbach, D. (2013). *Mapping the age-distribution of an Alpine glacier by combining ice cores, ground-penetrating radar and a simple flow model*. *Journal of Glaciology* 59, 179-189.
- Diez, A., Eisen, O., Hofstede, C., **Bohleber, P.** & Polom, U. (2013). *Joint interpretation of explosive and vibroseismic surveys on cold firn for the investigation of ice properties*. *Annals of Glaciology* 54, 201-210.
- Wagenbach, D., **Bohleber, P.** & Preunkert, S. (2012). *Cold Alpine ice bodies revisited: What may we learn from their impurity and isotope content?* *Geografiska Annaler: Series A, Physical Geography* 94, 245-263.
- **Bohleber, P.**, Wagner, N. & Eisen, O. (2012). *Permittivity of ice at radio frequencies: Part I. Coaxial Transmission Line Cell*. *Cold Regions Science and Technology* 82, 56-67.
- **Bohleber, P.**, Wagner, N. & Eisen, O. (2012). *Permittivity of ice at radio frequencies: Part II. Artificial and Natural Polycrystalline Ice*. *Cold Regions Science and Technology* 83-84, 13-19.

## Monographs

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- **Bohleber, P.** (2011): *Ground-penetrating radar assisted ice core research: The challenge of Alpine glaciers and dielectric ice properties*. Doctoral dissertation, University of Heidelberg.