PUBLICATIONS (PEER-REVIEWED)

Itrax operators, Bloemsma, B., Croudace, I., Daly, J.S., Edwards, R.J., Francus, P., Galloway, J.M., Gregory, B.R.B., Huang, J.-J., Jones, A.F., Kylander, M., Löwemark, L., Luo, Y., Maclachlan, S., Ohlendorf, C., Patterson, R.T., Pearce, C., **Profe, J.**, Reinhardt, E.G., Stranne, C., Tjallingii, R., Turner, J.N., 2019. Practical guidelines and recent advances in the Itrax XRF core-scanning procedure. Quaternary International 514: 16-29. doi: 10.1016/j.quaint.2018.10.044

Profe, J., Ohlendorf, C., 2019. X-ray fluorescence scanning of discrete samples – An economical perspective. Quaternary International 514: 68-75. doi: 10.1016/j.quaint.2018.09.022

Profe, J., Wacha, L., Frechen, M., Ohlendorf, C., Zolitschka, B., 2018. XRF scanning of discrete samples – A chemostratigraphic approach exemplified for loess-paleosol sequences from the Island of Susak, Croatia. Quaternary International 494: 34-51. doi: 10.1016/j.quaint.2018.05.006

Profe, J., Neumann, L., Novothny, Á., Barta, G., Rolf, C., Frechen, M., Ohlendorf, C., Zolitschka, B., 2018. Paleoenvironmental conditions and sedimentation dynamics in Central Europe inferred from geochemical data of the loess-paleosol sequence at Süttő (Hungary). Quaternary Science Reviews 196: 21-37. doi: 10.1016/j.quascirev.2018.07.034

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Profe, J., Höfle, B., Hämmerle, M., Steinbacher, F., Yang, M.-S., Schröder-Ritzrau, A., Frank, N., 2016. Characterizing tufa barrages in relation to channel bed morphology in a small karstic river by airborne LiDAR topo-bathymetry. Proceedings of the Geologists' Association 127: 664-675. doi:10.1016/j.pgeola.2016.10.004

Profe, J., Zolitschka, B., Schirmer, W., Frechen, M., Ohlendorf, C., 2016. Geochemistry unravels MIS 3/2 paleoenvironmental dynamics at the loess-paleosol sequence Schwalbenberg II, Germany. Palaeogeography, Palaeoclimatology, Palaeoecology 459: 537-551. doi: 10.1016/j.palaeo.2016.07.022

Marx, S., Phalkey, R., Aranda, C., **Profe, J.**, Sauerborn, R., Höfle, B., 2014. Geographic information analysis and web-based geoportals to explore malnutrition in Sub-Saharan Africa: a systematic review of approaches. BMC Public Health 14: 1189. doi: 10.1186/1471-2458-14-1189

Müller, R.-J., Schrader, H., **Profe, J.**, Dresler, K., Deckwer, W.-D., 2005. Enzymatic degradation of Poly(ethylene terephthalate): Rapid hydrolyse using a hydrolase from *T. fusca*. Macromolecular Rapid Communications 26: 1400-1405. doi: 10.1002/marc.200500410

FURTHER PUBLICATIONS

Schmidt, C., Laag, C., Profe, J., Richter, T., Tchouankoue, J. P., 2019. The morphometry of scoria cones as an indicator of their relative age – Results from the Camroon Volcanic Line. Geophysical Research Abstracts 21: EGU2019-4272.

Profe J. & Steup, R., 2019. The issue of reproducibility in multi-temporal geomorphological SfM-workflows – Examples from a laboratory experiment. Geophysical Research Abstracts 21: EGU2019-6848.

Profe, J., 2017. X-ray fluorescence scanning of discrete samples – a new tool for the geochemical characterization of loess-paleosol sequences. PhD-thesis. University of Bremen.

Profe, J. & Höfle, B., 2017. Detectability and geomorphometry of tufa barrages in a small forested karstic river using airborne LiDAR topo-bathymetry. Geophysical Research Abstracts 19: EGU2017-9130.

Profe, J., Neumann, L., Zolitschka, B., Frechen, M., Rolf, C., Barta, G., Novothny, Á., Ohlendorf, C., 2017. Geochemical record of the loess-paleosol sequence Süttö (Hungary) derived from X-ray fluorescence scanning of discrete samples. Geophysical Research Abstracts 19: EGU2017-9085-1.

Profe, J. & Ohlendorf, C., 2017. Data precision of X-ray fluorescence (XRF) scanning of discrete samples with the ITRAX XRF core-scanner exemplified on loess-paleosol samples. Geophysical Research Abstracts 19: EGU2017-8980.

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Profe, J., Neumann, L., Ohlendorf, C., Zolitschka, B., Frechen, M., Barta, G., 2015. Effects of different peak fitting strategies for XRF-spectra and their implications for paleoenvironmental studies: an example from powdered loess-paleosol samples. Geophysical Research Abstracts 17: EGU2015-8898.

Miernik, G., Kissner, T., Profe, J., Höfle, B., Bechstädt, T., Zühlke, R., 2013. LiDAR-basierte Aufschlussanalogmodellierung und Datenextraktion für Reservoirmodelle. In: Proceedings of DGMK/ÖGEW-Frühjahrstagung - Fachbereich Aufsuchung und Gewinnung. Celle, Germany: 1-6.

Miernik, G., Profe, J., Höfle, B., Kissner, T., Emmerich, A., Bechstädt, T., Zühlke, R., 2013. Modelling fractured reservoirs from LiDAR derived digital outcrop models (DOMs). In: Proceedings of the 30th IAS Meeting of Sedimentology. Manchester, UK: 1-2.

Profe, J., Forbriger, M., Höfle, B., 2013. Terrestrisches Laserscanning für geoarchäologische Fragestellungen in Koumasa/Kreta. Report Nr. 022013, Institut für Geographie, Universität Heidelberg, 18 S.

CONFERENCES, SUMMER SCHOOLS and WORKSHOPS

04/2019: Posterpresentation at the European Geoscience Union (cf. Geophysical Research Abstracts 21: EGU2019-6848), Vienna, Austria

05/2018: Talk “Detection of freshwater tufas from airborne LiDAR bathymetry”. 12th International Young Geomorphologists’ Meeting, Stadtoldendorf, Germany

05/2017: Talk "Chemostratigraphy of the loess-paleosol sequence Süttö (Hungary) based on unsupervised clustering of X-ray fluorescence data". 11th international Meeting of the 'Young Geomorphologists', Wartaweil am Ammersee, Germany

05/2017: Talk "Chemostratigraphy of the loess-paleosol sequence Süttö (Hungary) based on X-ray fluorescence scanning of discrete samples". GFZ Postdam - Section 5.2: Climate Dynamics and Landscape Evolution, Potsdam, Germany

04/2017: Two PICO-presentations at the European Geoscience Union (cf. Geophysical Research Abstracts 19: EGU2017-9085-1, EGU2017-9130), Vienna, Austria

04/2017: Posterpresentation at the European Geoscience Union (cf. Geophysical Research Abstracts 19: EGU2017-8980), Vienna, Austria

09/2016: Talk "Geochemistry of the loess-paleosol sequence Schwalbenberg II". DEUQUA 2016, Dresden, Germany

07/2016: Urbino Summer School in Paleoclimatology, Urbino, Italy

07/2016: Posterpresentation "Using climate model results to validate geochemical climofunctions applied to the loess-paleosol sequence Süttő". Urbino Summer School in Paleoclimatology, Urbino, Italy

05/2016: Talk "Insights into paleoclimate and sedimentation dynamics: Element log ratios derived from X-ray fluorescence scanning of discrete samples from the loess-paleosol sequence Schwalbenberg II, Germany". 10th international Young Geomorphologists' workshop, Werbellinsee, Germany

04/2016: Talk at the European Geoscience Union in the session "Aeolian dust: Initiator, Player, and Recorder of Environmental Change" (cf. Geophysical Research Abstracts 18: EGU2016-9497), Vienna, Austria

10/2015: Talk "XRF-scanning of powdered samples from the lower part of the 'Bok' loess-paleosol sequence (Island of Susak, Croatia): Initial results". Interdisciplinary Quaternary Investigations Workshop, Zagreb University, Croatia

07/2015: Innsbruck Summer School of Apline Research - Close Range Sensing Techniques in Alpine Terrain, Obergurgl, Austria

04/2015: Posterpresentation at the European Geoscience Union (cf. Geophysical Research Abstracts 17: EGU2015-8898), Vienna, Austria

10/2014: Attendance at the Kickoff Meeting of the DFG-SPP Program 1803: Earth Shape: Earth Surface Shaping by Biota, GFZ Potsdam, Germany