





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Education

Heidelberg University Advisor: Prof. Dr. Frank Keppler Titel: <i>Stable carbon and hydrogen isotope ratios of wood lignin methoxy groups, environmental and tree physiological influences and the investigation as climate proxies</i>	PhD Student since 2021
Heidelberg University Advisor: Prof. Dr. Frank Keppler Thesis: <i>Tree ring carbon and hydrogen isotope ratios of lignin methoxy groups as climate proxies (1.1)</i>	Master study 2018-2021
Heidelberg University Advisor: Dr. Thomas Klintzsch Thesis: <i>Light influences on the methane emission of different marine algae species (1.5)</i>	Bachelor study 2015-2018

Publication list

- Wieland, A.**, Greule, M., Roemer, P., Esper, J., and Keppler, F.: Climate signals in stable carbon and hydrogen isotopes of lignin methoxy groups from southern German beech trees, *Clim. Past*, 18, 1849–1866, <https://doi.org/https://doi.org/10.5194/cp-18-1849-2022>, 2022.
- Klintzsch, T., Geisinger, H., **Wieland, A.**, Langer, G., Nehrke, G., Bizic, M., Greule, M., Lenhart, K., Borsch, C., Schroll, M., Keppler, F.: Stable Carbon Isotope Signature of Methane Released from Phytoplankton, *Geophysical Research Letters* (preprint).
- Lu, Q., Liu, X., Treydte, K., Greule, M., **Wieland, A.**, Liu, J., Zhao, L., Zhang, Y., Kang, H., Zhang, L., Zeng, X., Keppler, F., Chen, Z., and Xing, X.: Altitude-specific differences in tree-ring $\delta^2\text{H}$ records of wood lignin methoxy in the Qinling mountains, central China, *Quat. Sci. Rev.*, 300, 107895, <https://doi.org/10.1016/j.quascirev.2022.107895>, 2023.
- Lu, Q., Liu, X., Tan, L., Keppler, F., Treydte, K., **Wieland, A.**, Zhang, L., Shi, X., Zhang, Y., Wang, Y., Zeng, X., Liu, J., Zhao, L., Xu, G., and Xing, X.: Tree-ring $\delta^2\text{H}$ records of lignin methoxy indicate spring temperature changes since 20th century in the Qinling Mountains, China, 76, 126020, <https://doi.org/10.1016/j.dendro.2022.126020>, 2022.
- Greule, M., **Wieland, A.**, and Keppler, F.: Measurements and applications of $\delta^2\text{H}$ values of wood lignin methoxy groups for paleoclimatic studies, *Quat. Sci. Rev.*, 268, 107107, <https://doi.org/10.1016/j.quascirev.2021.107107>, 2021.
- Klintzsch, T., Langer, G., **Wieland, A.**, Geisinger, H., Lenhart, K., Nehrke, G., and Keppler, F.: Effects of Temperature and Light on Methane Production of Widespread Marine Phytoplankton, *J. Geophys. Res. Biogeosciences*, 125, <https://doi.org/10.1029/2020JG005793>, 2020.
- Klintzsch, T., Langer, G., Nehrke, G., **Wieland, A.**, Lenhart, K., and Keppler, F.: Methane production by three widespread marine phytoplankton species: Release rates, precursor compounds, and potential relevance for the environment, 16, <https://doi.org/10.5194/bg-16-4129-2019>, 2019.

Conferences

Session Talk: Interdisciplinary Tree-Ring Research

EGU

Titel: *Climate signals in stable carbon and hydrogen isotopes of lignin methoxy groups*

May 2022

Session Talk: Oxygen and hydrogen isotope analyses of aquatic and terrestrial compounds: Advances in methods, models, and interpretation

EGU

April 2023

Titel: *Recent progress in the application of hydrogen isotopes from tree-ring lignin methoxy groups as a climate proxy*

Poster: Climate change and physiology

GASIR

Titel: *Advances in the use of stable hydrogen isotopes of wood lignin methoxy groups as a proxy to determine plant source water and for climate variability*

September 2023

Honors

Heinz Friedrich Schöler Environmental Prize in the Geosciences
excellent master thesis with reference to environmental topics

2021