

## List of peer-reviewed publications (Orchid-ID: 0000-0001-7125-6124)

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Roesch, A., Flury, C., Nemecek, T., Mann, S., Ritzel, C., and **Gilgen, A.**: *Indicator-based agri-environmental direct payments: Assessment of three systems of different complexity*, Ecological Indicators, 147, 109886, **2023**.

**Gilgen, A.**, Blaser, S., Schneuwly, J., Liebisch, F., and Merbold, L.: *The Swiss Agri-Environmental Data Network (SAEDN): Description and Critical Review of the Dataset*, Agricultural Systems, 205, 103576, **2023**.

**Gilgen, A.**, Drobnik, T., Mann, S., Flury, C., Mack, G., Ritzel, C., Roesch, A., and Gaillard, G.: *Can agricultural policy achieve environmental goals by an indicator-based direct payment system?*, Q Open, qoac034, **2022**.

Osmont, D., Brugger, S., **Gilgen, A.**, Weber, H., Sigl, M., Modini, R. L., Schwörer, C., Tinner, W., Wunderle, S., and Schwikowski, M.: *Tracing devastating fires in Portugal to a snow archive in the Swiss Alps: a case study*, The Cryosphere, 14, 3731-3745, **2020**.

**Gilgen, A.**, Wilkenskjeld, S., Kaplan, J. O., Kühn, T., and Lohmann, U.: *Effects of land use and anthropogenic aerosol emissions in the Roman Empire*, Climate of the Past, 15, 1885-1911, **2019**.

**Gilgen, A.**, Adolf, C., Brugger, S. O., Ickes, L., Schwikowski, M., van Leeuwen, J. F. N., Tinner, W., and Lohmann, U.: *Implementing Microscopic Charcoal Particles Into a Global Aerosol-Climate Model*, Atmospheric Chemistry and Physics, 18, 10521-10555, **2018**.

**Gilgen, A.**, Huang, W. T. K., Ickes, L., Neubauer, D., and Lohmann, U.: *How important are future marine and shipping aerosol emissions in a warming Arctic summer and autumn?*, Atmospheric Chemistry and Physics, 18, 11813-11829, **2018**.

Artiglia, L., Edebeli, J., Orlando, F., Chen, S., Lee, M.-T., Arroyo, P. C., **Gilgen, A.**, Bartels-Rausch, T., Kleibert, A., Vazdar, M., Carignano, M. A., Francisco, J. S., Shepson, P. B., Gladich, I. and Ammann, M.: *A surface-stabilized ozonide triggers bromide oxidation at the aqueous solution-vapour interface*, Nature Communications, 8: 700, **2017**.

Steimer, S. S., Berkemeier, T., **Gilgen, A.**, Krieger, U., Peter, T., Shiraiwa, M. and Ammann, M.: *Shikimic acid ozonolysis kinetics of the transition from liquid aqueous solution to highly viscous glass*, Physical Chemistry Chemical Physics, 17, 31101-31109, **2015**.

## List of other publications

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Prasuhn, V., C. Hutchings, A. **Gilgen**, S. Blaser: *Der Agrarumweltindikator Erosionsrisiko, kulturspezifische C-Faktoren sowie eine Karte des aktuellen Erosionsrisikos der Schweiz*. Agroscope Science, 158, 1-75, **2023**.

**Gilgen, A.**, Drobnik, T., Roesch, A., Mack, G., Ritzel, C., Iten, L., Flury, C., Mann, S. and Gaillard, G.: *Indikatorbasierte Direktzahlungen im Agrarumweltbereich: Schlussbericht ans Bundesamt für Landwirtschaft*, Agroscope Science, 136, 1-101, **2022**.

## Grants and Scholarships

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2023/01 – 2025/12	Impact of grassland management on soil carbon storage, Swiss National Science Foundation
2013/09 - 2015/09	Excellence Scholarship & Opportunity Programme (ESOP), ETHZ