

Publications Marta Antonelli (October 2024)

First-authored publications in Peer-reviewed journals:

- Antonelli, M, Laube, P, Doering, M, Scherelis, V, Wu, S, Hurni, L, Heitzler, M, and Weber, C. *Identifying anthropogenic legacy in freshwater ecosystems*. WIREs Water 2024, 11(4), e1729. <https://doi.org/10.1002/wat2.1729>
- Antonelli M, Glaser B, Teuling AJ, Klaus J, and Pfister L. *Saturated areas through the lens: 1. Spatio-temporal variability of surface saturation documented through Thermal Infrared imagery*. Hydrological Processes 2020, 34: 1310–1332. <https://doi.org/10.1002/hyp.13698>.
- Antonelli M, Glaser B, Teuling AJ, Klaus J, and Pfister L. *Saturated areas through the lens: 2. Spatio-temporal variability of streamflow generation and its relationship with surface saturation*. Hydrological Processes 2020, 34, 1333– 1349. <https://doi.org/10.1002/hyp.13607>.
- Antonelli M, Klaus J, Smettem KRJ, Teuling AJ, Pfister L. *Inferring Streamwater Mixing Dynamics from Thermal Infrared Imagery*. Water 2017, 9 – 358. <https://doi.org/10.3390/w9050358>.
- Antonelli M, Wetzel CE, Ector L, Teuling AJ, Pfister L. *On the potential for terrestrial diatom communities and diatom indices to identify anthropogenic disturbance in soils*. Ecological Indicators 2017, 75:73 – 81. <https://doi.org/10.1016/j.ecolind.2016.12.003>.

Co-authored publications in Peer-reviewed journals:

- Pfister, L, Klaus, J, Wetzel, CE, Antonelli, M. and Martínez-Carreras, N. *Tracing Hydrological Connectivity with Aerial Diatoms*. In Ecohydrological Interfaces 2024 (eds S. Krause, D. Hannah and N. Grimm). <https://doi.org/10.1002/9781119489702.ch11>
- Scherelis, V, Doering, M, Antonelli, M, and Laube, P. *Hydromorphological Information in Historical Maps of Switzerland: From Map Feature Definition to Ecological Metric Derivation*. Annals of the American Association of Geographers 2023, 113(4), 799–816. <https://doi.org/10.1080/24694452.2022.2160693>
- Glaser B, Antonelli M, Hopp L, Klaus J. *Intra-catchment variability of surface saturation – insights from physically based simulations in comparison with biweekly thermal infrared image observations*. Hydrology and Earth System Sciences 2020, 24, 1393-1413. <https://doi.org/10.5194/hess-24-1393-2020>.
- Glaser B, Antonelli M, Chini M, Pfister L, Klaus J. *Technical note: Mapping surface-saturation dynamics with thermal infrared imagery*. Hydrology and Earth System Sciences 2018, 22, 5987-6003. <https://doi.org/10.5194/hess-22-5987-2018>.
- Pfister L, Wetzel CE, Klaus J, Martínez-Carreras N, Antonelli M, Teuling AJ, McDonnell JJ. *Terrestrial diatoms as tracers in catchment hydrology: a review*. WIREs Water 2017, 4: e1241. <https://doi.org/10.1002/wat2.1241>.
- Abbott BW, Baranov V, Mendoza-Lera C, et al. *Using multi-tracer inference to move beyond single-catchment ecohydrology*, Earth-Science Reviews 2016, 160, 19 – 42, <http://dx.doi.org/10.1016/j.earscirev.2016.06.014>.