

List of publications in peer-reviewed journals (last edit: 17.06.2020)

- (1) Eller C. B., Rowland L., Mencuccini M., Rosas T., Williams K., Harper A., Medlyn B. E., Wagner Y., Klein T., Teodoro G. S., Oliveira R. S., Matos I. S., Rosado B. H. P., Fuchs K., Wohlfahrt G., Montagnani L., Meir P., Sitch S., Cox P. M. (2020) Stomatal optimization based on xylem hydraulics (SOX) improves land surface model simulation of vegetation responses to climate. *New Phytologist* **226**, 1622-1637, doi: 10.1111/nph.16419.
- (2) Karl T., Gohm A., Rotach M. W., Ward H. C., Graus M., Cede A., Wohlfahrt G., Hammerle A., Haid M., Tiefengraber M., Lamprecht C., Vergeiner J., Kreuter A., Wagner J., Staudinger M. (2020) Studying Urban Climate and Air Quality in the Alps: The Innsbruck Atmospheric Observatory. *Bulletin of the American Meteorological Society* **101**, E488-E507, doi: 10.1175/bams-d-19-0270.1.
- (3) Kitz F., Spielmann F. M., Hammerle A., Kolle O., Migliavacca M., Moreno G., Ibrom A., Krasnov D., Noe S. M., Wohlfahrt G. (2020) Soil COS Exchange: A Comparison of Three European Ecosystems. *Global Biogeochemical Cycles* **34**, doi: 10.1029/2019GB006202.
- (4) Spielmann F. M., Hammerle A., Kitz F., Gerdel K., Wohlfahrt G. (2020) Seasonal dynamics of the COS and CO₂ exchange of a managed temperate grassland. *Biogeosciences Discussions*, doi: 10.5194/bg-2020-27.
- (5) Haynes K. D., Baker I. T., Denning A. S., Wolf S., Wohlfahrt G., Kiely G., Minaya R. C., Haynes J. M. (2019) Representing Grasslands Using Dynamic Prognostic Phenology Based on Biological Growth Stages: Part 2. Carbon Cycling. *Journal of Advances in Modeling Earth Systems* **11**, 4440-4465, doi: 10.1029/2018ms001541.
- (6) Kitz F., Gómez-Brandón M., Eder B., Etemadi M., Spielmann F. M., Hammerle A., Insam H., Wohlfahrt G. (2019) Soil carbonyl sulfide exchange in relation to microbial community composition: Insights from a managed grassland soil amendment experiment. *Soil Biology and Biochemistry* **135**, 28-37, doi: 10.1016/j.soilbio.2019.04.005.
- (7) Knox S. H., Jackson R. B., Poulter B., McNicol G., Fluet-Chouinard E., Zhang Z., Hugelius G., Bousquet P., Canadell J. G., Saunio M., Papale D., Chu H., Keenan T. F., Baldocchi D., Torn M. S., Mammarella I., Trotta C., Aurela M., Bohrer G., Campbell D. I., Cescatti A., Chamberlain S., Chen J., Chen W., Dengel S., Desai A. R., Euskirchen E., Friborg T., Gasbarra D., Goded I., Goeckede M., Heimann M., Helbig M., Hirano T., Hollinger D. Y., Iwata H., Kang M., Klatt J., Krauss K. W., Kutzbach L., Lohila A., Mitra B., Morin T. H., Nilsson M. B., Niu S., Noormets A., Oechel W. C., Peichl M., Peltola O., Reba M. L., Richardson A. D., Runkle B. R. K., Ryu Y., Sachs T., Schäfer K. V. R., Schmid H. P., Shurpali N., Sonntag O., Tang A. C. I., Ueyama M., Vargas R., Vesala T., Ward E. J., Windham-Myers L., Wohlfahrt G., Zona D. (2019) FLUXNET-CH₄ Synthesis Activity: Objectives, Observations, and Future Directions. *Bulletin of the American Meteorological Society* **100**, 2607-2632, doi: 10.1175/bams-d-18-0268.1.
- (8) Peaucelle M., Bacour C., Ciais P., Vuichard N., Kuppel S., Peñuelas J., Beletti Marchesini L., Blanken P. D., Buchmann N., Chen J., Delpierre N., Desai A. R., Dufrene E., Gianelle D., Gimeno-Colera C., Gruening C., Helfter C., Hörtnagl L., Ibrom A., Joffre R., Kato T., Kolb T. E., Law B., Lindroth A., Mammarella I., Merbold L., Minerbi S., Montagnani L., Šigut L., Sutton M., Varlagin A., Vesala T., Wohlfahrt G., Wolf S., Yakir D., Viogy N., Lenoir J. (2019) Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. *Global Ecology and Biogeography* **28**, 1351-1365, doi: 10.1111/geb.12937.
- (9) Shang Z., Zhou F., Smith P., Saikawa E., Ciais P., Chang J., Tian H., Del Grosso S. J., Ito A., Chen M., Wang Q., Bo Y., Cui X., Castaldi S., Juszczak R., Kasimir A., Magliulo V., Medinets S., Medinets V., Rees R. M., Wohlfahrt G., Sabbatini S. (2019) Weakened growth of cropland-N₂O emissions in China associated with nationwide policy interventions. *Global Change Biology* **25**, 3706-3719, doi: 10.1111/gcb.14741.
- (10) Spielmann F. M., Wohlfahrt G., Hammerle A., Kitz F., Migliavacca M., Alberti G., Ibrom A., El-Madany T. S., Gerdel K., Moreno G., Kolle O., Karl T., Peressotti A., Delle Vedove G. (2019) Gross Primary Productivity of Four European Ecosystems Constrained by Joint CO₂ and COS Flux Measurements. *Geophysical Research Letters* **46**, 5284-5293, doi: 10.1029/2019gl082006.

- (11) Stoy P. C., El-Madany T. S., Fisher J. B., Gentine P., Gerken T., Good S. P., Klosterhalfen A., Liu S., Miralles D. G., Perez-Priego O., Rigden A. J., Skaggs T. H., Wohlfahrt G., Anderson R. G., Coenders-Gerrits A. M. J., Jung M., Maes W. H., Mammarella I., Mauder M., Migliavacca M., Nelson J. A., Poyatos R., Reichstein M., Scott R. L., Wolf S. (2019) Reviews and syntheses: Turning the challenges of partitioning ecosystem evaporation and transpiration into opportunities. *Biogeosciences* **16**, 3747-3775, doi: 10.5194/bg-16-3747-2019.
- (12) Wohlfahrt G., Tomelleri E., Hammerle A. (2019) The urban imprint on plant phenology. *Nature Ecology & Evolution* **3**, 1668-1674, doi: 10.1038/s41559-019-1017-9.
- (13) Acton W. J. F., Jud W., Ghirardo A., Wohlfahrt G., Hewitt C. N., Taylor J. E., Hansel A. (2018) The effect of ozone fumigation on the biogenic volatile organic compounds (BVOCs) emitted from *Brassica napus* above- and below-ground. *PLoS ONE* **13**, e0208825, doi: 10.1371/journal.pone.0208825.
- (14) Barba J., Cueva A., Bahn M., Barron-Gafford G. A., Bond-Lamberty B., Hanson P. J., Jaimes A., Kulmala L., Pumpanen J., Scott R. L., Wohlfahrt G., Vargas R. (2018) Comparing ecosystem and soil respiration: Review and key challenges of tower-based and soil measurements. *Agricultural and Forest Meteorology* **249**, 434-443, doi: 10.1016/j.agrformet.2017.10.028.
- (15) Carotenuto F., Gualtieri G., Miglietta F., Riccio A., Toscano P., Wohlfahrt G., Gioli B. (2018) Industrial point source CO₂ emission strength estimation with aircraft measurements and dispersion modelling. *Environmental Monitoring and Assessment* **190**, 165, doi: 10.1007/s10661-018-6531-8.
- (16) Castelli M., Anderson M. C., Yang Y., Wohlfahrt G., Bertoldi G., Niedrist G., Hammerle A., Zhao P., Zebisch M., Notarnicola C. (2018) Two-source energy balance modeling of evapotranspiration in Alpine grasslands. *Remote Sensing of Environment* **209**, 327-342, doi: 10.1016/j.rse.2018.02.062.
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