

## List of publications in peer-reviewed journals (last edit: 19.09.2017)

- (1) Ahrar M., Doneva D., Tattini M., Brunetti C., Gori A., Rodeghiero M., Wohlfahrt G., Biasioli F., Varotto C., Loreto F., Velikova V. (2017) Phenotypic differences determine drought stress responses in ecotypes of *Arundo donax* adapted to different environments. *Journal of Experimental Botany* **68**, 2439-2451, doi: 10.1093/jxb/erx125.
- (2) Bamberger I., Ruehr N. K., Schmitt M., Gast A., Wohlfahrt G., Arneth A. (2017) Isoprene emission and photosynthesis during heatwaves and drought in black locust. *Biogeosciences* **14**, 3649-3667, doi: 10.5194/bg-14-3649-2017.
- (3) Campbell J., Kesselmeier J., Yakir D., Berry J., Peylin P., Belviso S., Vesala T., Maseyk K., Seibt U., Chen H., Whelan M., Hilton T., Montzka S., Berkelhammer M., Lennartz S., Kuai L., Wohlfahrt G., Wang Y., Blake N., Blake D., Stinecipher J., Baker I., Sitch S. (2017) Assessing a New Clue to How Much Carbon Plants Take Up. *EOS*, doi: 10.1029/2017eo075313.
- (4) Cappellin L., Algarra Alarcon A., Herdinger-Blatt I., Sanchez J., Biasioli F., Martin S. T., Loreto F., McKinney K. A. (2017) Field observations of volatile organic compound (VOC) exchange in red oaks. *Atmospheric Chemistry and Physics* **17**, 4189-4207, doi: 10.5194/acp-17-4189-2017.
- (5) Doneva D., Ahrar M., Tsonev T., Loreto F., Varotto C., Velikova V. (2017) The role of isoprene in two Arundineae species exposed to progressive drought. *Comptes rendus de l'Académie bulgare des Sciences* **70**, 203-212, doi:
- (6) Fu Z., Stoy P. C., Luo Y., Chen J., Sun J., Montagnani L., Wohlfahrt G., Rahman A. F., Rambal S., Bernhofer C., Wang J., Shirkey G., Niu S. (2017) Climate controls over the net carbon uptake period and amplitude of net ecosystem production in temperate and boreal ecosystems. *Agricultural and Forest Meteorology* **243**, 9-18, doi: 10.1016/j.agrformet.2017.05.009.
- (7) Galvagno M., Wohlfahrt G., Cremonese E., Filippa G., Migliavacca M., Mora di Cella U., van Gorsel E. (2017) Contribution of advection to nighttime ecosystem respiration at a mountain grassland in complex terrain. *Agricultural and Forest Meteorology* **237-238**, 270-281, doi: 10.1016/j.agrformet.2017.02.018.
- (8) Hammerle A., Meier F., Heinel M., Egger A., Leitinger G. (2017) Implications of atmospheric conditions for analysis of surface temperature variability derived from landscape-scale thermography. *International Journal of Biometeorology*, doi: 10.1007/s00484-016-1234-8.
- (9) Karl T., Graus M., Striednig M., Lamprecht C., Hammerle A., Wohlfahrt G., Held A., von der Heyden L., Deventer M. J., Krismer A., Haun C., Feichter R., Lee J. (2017) Urban eddy covariance measurements reveal significant missing NO<sub>x</sub> emissions in Central Europe. *Scientific Reports* **7**, doi: 10.1038/s41598-017-02699-9.
- (10) Kitz F., Gerdel K., Hammerle A., Laterza T., Spielmann F. M., Wohlfahrt G. (2017) In situ soil COS exchange of a temperate mountain grassland under simulated drought. *Oecologia* **183**, 851-860, doi: 10.1007/s00442-016-3805-0.
- (11) Wohlfahrt G. (2017) Bi-directional COS exchange in bryophytes challenges its use as a tracer for gross primary productivity. *New Phytologist* **215**, 923-925, doi: 10.1111/nph.14658.
- (12) Wohlfahrt G., Galvagno M. (2017) Revisiting the choice of the driving temperature for eddy covariance CO<sub>2</sub> flux partitioning. *Agricultural and Forest Meteorology* **237-238**, 135-142, doi: 10.1016/j.agrformet.2017.02.012.
- (13) Yao Y., Liang S., Li X., Zhang Y., Chen J., Jia K., Zhang X., Fisher J. B., Wang X., Zhang L., Xu J., Shao C., Posse G., Li Y., Magliulo V., Varlagin A., Moors E. J., Boike J., Macfarlane C., Kato T., Buchmann N., Billesbach D. P., Beringer J., Wolf S., Papuga S. A., Wohlfahrt G., Montagnani L., Ardö J., Paul-Limoges E., Emmel C., Hörtnagl L., Sachs T., Gruening C., Gioli B., López-Ballesteros A., Steinbrecher R., Gielen B. (2017) Estimation of high-resolution terrestrial evapotranspiration from Landsat data using a simple Taylor skill fusion method. *Journal of Hydrology* **553**, 508-526, doi: 10.1016/j.jhydrol.2017.08.013.
- (14) Zhang Z., Zhang R., Cescatti A., Wohlfahrt G., Buchmann N., Zhu J., Chen G., Moyano F., Pumpanen J., Hirano T., Takagi K., Merbold L. (2017) Effect of climate warming on the annual terrestrial net ecosystem CO<sub>2</sub> exchange globally in the boreal and temperate regions. *Scientific Reports* **7**, 3108, doi: 10.1038/s41598-017-03386-5.

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- (18) Jud W., Fischer L., Canaval E., Wohlfahrt G., Tissier A., Hansel A. (2016) Plant surface reactions: an opportunistic ozone defence mechanism impacting atmospheric chemistry. *Atmospheric Chemistry and Physics* **16**, 277-292, doi: 10.5194/acp-16-277-2016.
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- (20) Musavi T., Migliavacca M., van de Weg M. J., Kattge J., Wohlfahrt G., van Bodegom P. M., Reichstein M., Bahn M., Carrara A., Domingues T. F., Gavazzi M., Gianelle D., Gimeno C., Granier A., Gruening C., Havránková K., Herbst M., Hrynkiw C., Kalhori A., Kaminski T., Klumpp K., Kolari P., Longdoz B., Minerbi S., Montagnani L., Moors E., Oechel W. C., Reich P. B., Rohatyn S., Rossi A., Rotenberg E., Varlagin A., Wilkinson M., Wirth C., Mahecha M. D. (2016) Potential and limitations of inferring ecosystem photosynthetic capacity from leaf functional traits. *Ecology and Evolution* **6**, 7352-7366, doi: 10.1002/ece3.2479.
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- (24) Wohlfahrt G., Hammerle A., Niedrist G., Scholz K., Tomelleri E., Zhao P. (2016) On the energy balance closure and net radiation in complex terrain. *Agricultural and Forest Meteorology* **226-227**, 37-49, doi: 10.1016/j.agrformet.2016.05.012.
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- (28) Ahrar M., Doneva D., Koleva D., Romano A., Rodeghiero M., Tsonev T., Biasioli F., Stefanova M., Peeva V., Wohlfahrt G., Loreto F., Varotto C., Velikova V. (2015) Isoprene emission in the

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