

**'Plant, Soil and Ecosystem Processes' – recent publications** (last update: March 2017)

- Mayor J.R., Sanders N.J., Classen A.T., Bardgett R.D., Clément J.C., Fajardo A., Lavorel S., Sundqvist M.K., Bahn M., Chisholm C., Cieraad E., Gedalof Z., Grigulis K., Kudo G., Oberski D.L., Wardle, D.A. (2017) Elevation alters ecosystem properties across temperate treelines globally. *Nature* 542: 91–95.
- Gavazov K., Ingrisch J., Hasibeder R., Mills R.T.E., Buttler A., Gleixner G., Pumpanen J., Bahn M. (2017) Winter ecology of a subalpine grassland: effects of snow removal on soil respiration, microbial structure and function. *Science of the Total Environment* <http://dx.doi.org/10.1016/j.scitotenv.2017.03.010>
- Gessler A., Roy J., Kayler Z., Ferrio J.P., Alday J.G., Bahn M., del Castillo J., Devidal S., García-Muñoz S., Kayler Z., Landais D., Martín-Gómez P., Milcu A., Piel C., Pirhofer-Walzl K., Gagliano L., Schaub M., Haeni M., Ravel O., Salekin S., Tissue D., Tjoelker M., Voltas J., Hoch G., Resco de Dios V. (2017) Night and day – Circadian regulation of night-time dark respiration and light-enhanced dark respiration in plant leaves and canopies. *Environmental and Experimental Botany* 137:14-25
- Resco de Dios V., Gessler A., Ferrio J.P., Alday J., Bahn M., del Castillo J., Devidal S., García-Muñoz S., Kayler Z., Landais D., Martín-Gómez P., Milcu A., Piel C., Pirhofer-Walzl K., Ravel O., Salekin S., Tissue D., Tjoelker M., Voltas J., Roy J. (2017) Circadian rhythms regulate the environmental responses of net CO<sub>2</sub> exchange in bean and cotton canopies. *Agricultural and Forest Meteorology* 239: 185–191.
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- Estiarte M., Vicca S., Peñuelas J., Bahn M., Beier C., Emmett B.A., Fay P.A., Hanson P.J., Hasibeder R., Kigel J., Kröel-Dulay G., Larsen K.S., Lellei-Kovács E., Limousin J.-M., Ogaya R., Ourcival J.-M., Reinsch S., Sala O. E., Schmidt I. K., Sternberg M., Tielbörger K., Tietema A., Janssens, I.A. (2016) Few multiyear precipitation–reduction experiments find a shift in the productivity–precipitation relationship. *Global Change Biology* 22: 2570–2581
- Fuchslueger L., Bahn M., Hasibeder R., Kienzl S., Fritz K., Schmitt M., Watzka M., Richter, A. (2016) Drought history affects grassland plant and microbial carbon turnover during and after a subsequent drought event. *Journal of Ecology* 104: 1453–1465.
- Harper A., Cox P., Friedlingstein P., Wiltshire A., Jones C., Sitch S., Mercado L. M., Groenendijk M., Robertson E., Kattge J., Bönisch G., Atkin O. K., Bahn M., Cornelissen J., Niinemets Ü., Onipchenko V., Peñuelas J., Poorter L., Reich P. B., Soudzilovskaia N., van Bodegom, P. (2016) Improved representation of plant functional types and physiology in the Joint UK Land Environment Simulator (JULES v4.2) using plant trait information. *Geoscientific Model Development* 9: 2415-2440.
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- Cueva A., Bahn M., Litvak M., Pumpanen J., Vargas R. (2015) A multisite analysis of temporal random errors in soil CO<sub>2</sub> efflux. *Journal of Geophysical Research-Biogeosciences* 120: 737–751.
- \*Frank D., Reichstein M., Bahn M., Frank D., Mahecha M., Smith P., Thonike K., van der Velde M., Vicca S., Babst F., Beer C., Buchmann N., Canadell J.G., Ciais P., Cramer W., Ibrom A., Miglietta F., Poulter B., Rammig A., Seneviratne S.I. et al. (2015) Effects of climate extremes on the terrestrial carbon cycle: concepts, processes and potential future impacts. *Global Change Biology* 21: 2861–2880.
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- Ingrisch J., Biermann T., Seeber E., Leipold T., Li M., Ma Y., Xu X., Miede G., Guggenberger G., Foken T., Kuzyakov Y. (2015) Carbon pools and fluxes in a Tibetan alpine Kobresia pygmaea pasture partitioned by coupled eddy-covariance measurements and <sup>13</sup>CO<sub>2</sub> pulse labeling. *Science of the Total Environment* 505: 1213-24
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- Vandegehuchte M.W., Bloemen J., Vergeynst L.L., Steppe K. (2015) Woody tissue photosynthesis in trees: salve on the wounds of drought? *New Phytologist* 208: 998–1002.

## Selected (well-cited) publications published before 2015 (\*= ISI-highly cited)

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- \* Moles A.T., Perkins S.E., Laffan S.W., Flores-Moreno H., Awasthy M., Tindall M.L., Sack L., Pitman A., Kattge J., Aarssen L.W., Anand M., Bahn M. et al. (2014) Which is a better predictor of plant traits: temperature or precipitation? *Journal of Vegetation Science* 25 : 1167–1180
- Vicca S., Bahn M., Estiarte M., van Loon E. E., Vargas R., Alberti G., Ambus P., Arain M. A., Beier C., Bentley L. P., Borken W., Buchmann N., Collins S. L., de Dato G., Dukes J.S., Escobar C., Fay P., Guidolotti G., Hanson P. J., Kahmen A., Kröel-Dulay G., Ladreiter-Knauss T. et al. (2014) Can current moisture responses predict soil respiration under altered precipitation regimes? A synthesis of manipulation experiments. *Biogeosciences* 11: 2991–3013.
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*For further publications see*

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