

## Some selected and representative publications

The complete list of publications can be found here:

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1. Fontana, M., Johannes, A., Zaccone, C., Weisskopf, P., Guillaume, T., **Bragazza L.**, Elfouki S., Charles, R., Sinaj, S. 2023. Improving crop nutrition, soil carbon storage and soil physical fertility using ramial wood chips. *Environmental Technology and Innovation* 31, 103143.
2. Fontana, M., Sinaj, S., Elfouki, S., Guillaume, T., **Bragazza L.** 2023. Cover Crop Identity Differently Affects Biomass Productivity as well as Nitrogen and Phosphorus Uptake of Maize (*Zea mays* L.) in Relation to Soil Type. *Journal of Soil Science and Plant Nutrition* 23: 2392–2403.
3. Roohi, M., Saleem Arif, M., Guillaume, T., Muhammad Shahzad, S., **Bragazza L.** 2022. Role of fertilization regime on soil carbon sequestration and crop yield in a maize-cowpea intercropping system on low fertility soils. *Geoderma* 428, 116152.
4. Guillaume, T., Makowski, D., Libohova, Z., **Bragazza L.**, Sinaj, S. 2022. Carbon storage in agricultural topsoils and subsoils is promoted by including temporary grasslands into the crop rotation. *Geoderma* 422, 115937.
5. Frau, L.J., Libohova, Z., Joost, S., Levasseur, C., Jeangros, B., **Bragazza L.**, Sinaj, S. 2020. Regional investigation of spatial-temporal variability of soil magnesium - a case study from Switzerland. *Geoderma Regional* 21, Article number e00278.
6. Guillaume, T., Makowski, D., Libohova, Z., **Bragazza L.**, Sallaku, F., Sinaj, S. 2022. Soil organic carbon saturation in cropland-grassland systems: Storage potential and soil quality. *Geoderma* 406, 115529.
7. Fontana, M., Guillaume, T., **Bragazza L.**, Brancaloni, L., Sinaj, S. 2021. Legacy effect of green manure crops fertilized with calcium phosphite on maize production and soil properties. *Journal of Environmental Management* 295, 113092.
8. Fontana, M., **Bragazza L.**, Guillaume, T., ...Sinaj, S. 2021. Valorization of calcium phosphite waste as phosphorus fertilizer: Effects on green manure productivity and soil properties. *Journal of Environmental Management* 285, 112061.
9. **Bragazza L.**, Fontana, M., Guillaume, T. Scow, K.M., Sinaj, S. 2021. Nutrient stoichiometry of a plant-microbe-soil system in response to cover crop species and soil type. *Plant Soil* 461: 517–531.
10. Roohi, M., Arif, M.S., Yasmeen, T., Riaz, M., Rizwan, M., Shahzad, S.M., Ali, S., **Bragazza L.** 2020. Effects of cropping system and fertilization regime on soil phosphorous

are mediated by rhizosphere-microbial processes in a semi-arid agroecosystem. *Journal of Environmental Management* 271, Article number 111033.

11. Koishi A., **Bragazza L.**, Maltas A., Guillaume T., Sinaj S. 2020. Long-Term Effects of Organic Amendments on Soil Organic Matter Quantity and Quality in Conventional Cropping Systems in Switzerland. *Agronomy* 10, 1977.
12. Chelli, S., Marignani, M., Barni, E., Petraglia, A., Puglielli, G., Wellstein, C., Acosta, A.T.R., Bolpagni, R., **Bragazza L.** et al. 2019. Plant–environment interactions through a functional traits perspective: a review of Italian studies. *Plant Biosystems* 153: 853-869.
13. **Bragazza L.**, Robroek, B.J.M., Jassey, V.E.J., Arif, M.S., Marchesini, R., Guglielmin, M., Cannone, N. 2019. Soil microbial community structure and enzymatic activity along a plant cover gradient in Victoria Land (continental Antarctica). *Geoderma* 353: 144-151.
14. Buttler, A., Mariotte, P., Meisser, M., Guillaume, T., Signarbieux, C., Vitra, A., Preux, S., Mercier, G., Quezada, J., **Bragazza L.**, Gavazov, K. 2019. Drought-induced decline of productivity in the dominant grassland species *Lolium perenne* L. depends on soil type and prevailing climatic conditions. *Soil Biology and Biochemistry* 132: 47-57.
15. Walker T.W.N., Weckwerth W., **Bragazza L.**, Fragner L., Forde B.G., Ostle N.J., Signarbieux C., Sun X., Ward S.E., Bardgett R.D. (2019) Plant plastic and genetic responses to warming have contrasting effects on carbon cycle processes. *Ecology Letters* 22: 159-169.
16. Gavazov K., Albrecht R., Buttler A., Dorrepaal E., Garnett M.H., Gogo S., Hagedorn F., Mills R.T.E., Robroek B.J.M. & **Bragazza L.** (2018) Vascular plant-mediated controls on atmospheric carbon assimilation and peat carbon decomposition under climate change. *Global Change Biology*: 24: 3911–3921.
17. Buttler A., Mariotte P., Meisser M., Guillaume T., Signarbieux C., Vitra A., Preux S., Mercier G., Quezada J., **Bragazza L.** & Gavazov K. (2018) Drought-induced decline in grassland productivity buffered by soil fertility. *Soil Biology and Biochemistry* 132, 47-57.
18. Arif M.S, Riaz M., Shahzad S.M., Yasmeen T., Ashraf M., Siddique M., Mubarik M.S., **Bragazza L.**, Buttler A. (2018) Fresh and composted industrial sludge restore soil functions in surface soil of degraded agricultural land. *Science of the Total Environment* 619-620: 517-527.
19. Shahzada S.M., Arif M.S., Riaz M., Ashraf M., Yasmeen T., Zaheer A., **Bragazza L.**, Buttler A., Robroek B.J.M. (2017) Interaction of compost additives with phosphate solubilizing rhizobacteria improved maize production and soil biochemical properties under dryland agriculture. *Soil & Tillage Research* 174: 70-80.

20. Arif M.S., Shahzad S.M., Riaz M., Yasmeen T., Shahzad T., Akhtar M.J., **Bragazza L.**, Buttler A. (2017) Nitrogen-enriched compost application combined with plant growth promoting rhizobacteria (PGPR) improves seed quality and nutrient use efficiency of sunflower. *Journal Plant Nutrition and Soil Science* 180: 464-473.
21. Arif M.S., Riaz M., Shahzad S.M., Yasmeen T., Akhtar J., Riaz M.A., Jassey V.E.J., **Bragazza L.**, Buttler A. (2016) The associative interplay of plant growth promoting rhizobacteria (*Pseudomonas aeruginosa* QS40) with nitrogen fertilizers improves sunflower (*Helianthus annuus* L.) productivity and fertility of aridisol. *Applied Soil Ecology* 108: 238-247.
22. Blanchet G., Gavazov K., **Bragazza L.** & Sinaj S. (2016) Responses of soil properties and crop yields to different inorganic and organic amendments in a Swiss conventional farming system. *Agriculture, Ecosystems & Environment* 230: 116-126.
23. **Bragazza L.**, Buttler A., Robroek B.J.M., Albrecht R., Zaccone C., Jassey V.E.J. & Signarbieux C. (2016) Persistent high temperature and low precipitation reduce peat carbon accumulation. *Global Change Biology* 22: 4114-4123.
24. Robroek B.J.M., Albrecht R.J.H., Hamard S., Pulgarin A., **Bragazza L.**, Buttler A., Jassey V.E.J. (2016) Peatland vascular plant functional types affect dissolved organic matter chemistry. *Plant and Soil* 407: 135-143.
25. **Bragazza L.**, Bardgett R.D., Mitchell E.A.W. & Buttler A. (2015) Linking soil microbial communities to vascular plant abundance along a climate gradient. *New Phytologist* 205: 1175-1182.
26. Kuiper J.J., Mooij W.M., **Bragazza L.**, Robroek B.J.M. (2014) Plant functional types define magnitude of drought response in peatland CO<sub>2</sub> exchange. *Ecology* 95: 123-131.
27. **Bragazza L.**, Parisod J., Buttler A. & Bardgett R. (2013) Biogeochemical plant-soil microbe feedback in response to climate warming in peatlands. *Nature Climate Change* 3: 273-277.
28. Zaccone C., Casiello G., Longobardi F., **Bragazza L.**, Sacco A. & Miano T.M. (2011). Evaluating the 'conservative' behavior of stable isotopic ratios (δ<sup>13</sup>C, δ<sup>15</sup>N, and δ<sup>18</sup>O) in humic acids and their reliability as paleoenvironmental proxies along a peat sequence. *Chemical Geology* 285: 124-132.
29. **Bragazza L.**, Siffi C., Iacumin P. & Gerdol R. (2010). Seasonal variation in nitrogen isotopic composition of bog plant litter during three years of field decomposition. *Biology and Fertility of Soils* 46: 877-881.

30. **Bragazza L.** & Iacumin P. (2009). Seasonal variation in carbon isotopic composition of bog plant litter during 3 years of field decomposition. *Biology and Fertility of Soils* 46: 73-77.
31. **Bragazza L.**, Freeman C., Jones T., Rydin R., Limpens J., Fenner N., Ellis T., Gerdol R., Hajek M., Hajek T., Iacumin P., Kutnar L., Tahvanainen T. & Toberman H. (2006). Atmospheric nitrogen deposition promotes carbon loss from peat bogs. *Proceedings of the National Academy of Sciences of the United States of America (PNAS)* 103: 19386-19389.
32. **Bragazza L.**, Siffi C., Iacumin P. & Gerdol R. (2007). Mass loss and nutrient release during litter decay in peatland: the role of microbial adaptability to litter chemistry. *Soil Biology & Biochemistry* 39: 257-267.
33. **Bragazza L.** & Limpens J. (2004). Dissolved organic nitrogen dominates in European bogs under increasing atmospheric N deposition. *Global Biogeochemical Cycles* 18: 1-5.
34. Nardi S., Pizzeghello D., **Bragazza L.** & Gerdol R. (2003). Low-molecular-weight organic acids and hormone-like activity of dissolved organic matter in two forest soils in N Italy. *Journal of Chemical Ecology* 29: 1549-1564.