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**Publications - Andreas Richter**

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**Peer-reviewed publications**

(ISI Journal Citation Reports listed journals only)

- 01 Fuchslueger, L., Wild, L., Mooshammer, M., Takriti, M., Kienzl, S., Knoltsch, A., Hofhansl, F., Bahn, M., Richter, A. (2019) Microbial carbon and nitrogen cycling responses to drought and temperature in differently managed mountain grasslands. **Soil Biology and Biochemistry** 135: 144-153.
- 02 Tveit, A.T., Hestnes, A.G., Robinson, S.L., Schintlmeister, A., Dedysh, S.N., Jehmlich, N., von Bergen, M., Herbold, C., Wagner, M., Richter, A., Svenning, M.M. (2019) A widespread soil bacterium that oxidizes atmospheric methane. **Proceedings of the National Academy of Sciences** 116 (17) 8515-8524.
- 03 Kits, D., Jung, M.-Y., Vierheilig, J., Pjevac, P., Sedlacek, C., Liu, S., Herbold, C., Stein, L., Richter, A., Wissel, H., Brüggemann, N., Wagner, M., Daims, H. (2019) Low yield and abiotic origin of N<sub>2</sub>O formed by the complete nitrifier *Nitrospira inopinata*. **Nature Communications** 10: 1836.
- 04 Van Langenhove, L., Depaepe, T., Vicca, S., Van den Berge, J., Stahl, C., Courtois, E.A., Weedon, J., Urbina, I., Grau, O., Asensio, D., Peñuelas, J., Boeckx, J., Richter, A., Van Der Straeten, D., Janssens, I.A. (2019) Regulation of Nitrogen Fixation from Free-Living Organisms in Soil and Leaf Litter of two tropical forests of the Guiana shield. **Plant and Soil** (accepted for publication).
- 05 Marañón-Jiménez, S., Peñuelas, J., Richter, A., Sigurdsson, B.D., Fuchslueger, L., Leblans, N.I., Janssens, I.A. (2019) Coupled carbon and nitrogen losses in response to seven years of chronic warming in subarctic soils. **Soil Biology and Biochemistry** 134: 152-161.
- 06 Yin, L., Corneo, P.E., Richter, A., Wang, P., Cheng, W., Dijkstra, F.A. (2019) Variation in rhizosphere priming and microbial growth and carbon use efficiency caused by wheat genotypes and temperatures. **Soil Biology and Biochemistry** 134: 54-61.
- 07 Gorka, S., Dietrich, M., Mayerhofer, W., Gabriel, R., Wiesenbauer, J., Martin, V., Zheng, Q., Imai, B., Prommer, J., Weidinger, M., Schweiger, P., Eichorst, S.A., Wagner, M., Richter, A., Schintlmeister, A., Wobken, D., Kaiser, C. (2019) Rapid transfer of plant photosynthates to soil bacteria via ectomycorrhizal hyphae and its interaction with nitrogen availability. **Frontiers in Microbiology** 10:168.
- 08 Canarini, A., Wanek, W., Merchant, A., Richter, A., Kaiser, C. (2019) Root exudation of primary metabolites: mechanisms and their roles in plant responses to environmental stimuli. **Frontiers in Plant Science** 10: 157.
- 09 Kitzinger, K., Padilla, C., Marchant, H.K., Hach, P., Herbold, C., Kidane, A., Könneke, M., Littmann, S., Mooshammer, M., Niggemann, J., Petrov, S., Richter, A., Stewart, F., Wagner, M., Kuypers, M., Bristow, L. (2019) Cyanate and Urea are Substrates for Nitrification by Thaumarchaeota in the Marine Environment. **Nature Microbiology** 4: 234-243.
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- 14 Courtois, E. A., Stahl, C., Van den Berge, J., Bréchet L., Van Langenhove, L., Richter, A., Urbina, I., Soong, J.L., Peñuelas, J., Janssens, I.A. (2018) Spatial variation of soil CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O fluxes across topographical positions in the tropical forests of the Guiana Shield. **Ecosystems** 21, 1445-1458.
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