

## Anja Miltner, publications since 1990

### peer reviewed journals

Muscus AM, Krauss M, **Miltner A**, Hamer U, Nowak KM (2019): Effect of temperature, pH and total organic carbon variations on microbial turnover of  $^{13}\text{C}_3^{15}\text{N}$ -glyphosate in agricultural soil. *Science of the Total Environment* 658: 697-707.

Nowak KM, Telscher M, Seidel E, **Miltner A** (2018): Unraveling microbial turnover and non-extractable residues of bromoxynil in soil microcosms with  $^{13}\text{C}$ -isotope probing. *Environmental Pollution* 242: 769-777.

König S, Worrich A, Banitz T, Centler F, Harms H, Kästner M, **Miltner A**, Wick LY, Thullner M, Frank K (2018): Spatiotemporal disturbance characteristics determine functional stability and collapse risk of simulated microbial ecosystems. *Scientific Reports* 8: 9488.

König S, Worrich A, Banitz T, Harms H, Kästner M, **Miltner A**, Wick LY, Frank K, Thullner M, Centler F (2018): Functional resistance to recurrent spatially heterogeneous disturbances is facilitated by increased activity of surviving bacteria in a virtual ecosystem. *Frontiers in Microbiology* 9: 734.

Worrich A, Stryhanyuk H, Musat N, König S, Banitz T, Centler F, Frank K, Thullner M, Harms H, Richnow H-H, **Miltner A**, Kästner M, Wick LY (2017): Mycelium-mediated transfer of water and nutrients stimulates bacterial activity in dry and oligotrophic environments. *Nature Communications* 8: 15472.

Wang S, **Miltner A**, Nowak KM (2017): Identification of degradation routes of metamitron in soil microcosms using  $^{13}\text{C}$ -isotope labeling. *Environmental Pollution*, 220: 927-935.

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König S, Worrich A, Centler F, Wick LY, **Miltner A**, Kästner M, Thullner M, Frank K, Banitz T (2017): Modelling functional resilience of microbial ecosystems: analysis of governing processes. *Environmental Modelling and Software* 89: 31-39.

Pronk GJ, Heister K, Vogel C, Babin D, Bachmann J, Ding G-C, Ditterich F, Gerzabek MH, Giebler J, Hemkemeyer M, Kandeler E, Kunhi Mouvenchery Y, **Miltner A**, Poll C, Schaumann GE, Smalla K, Steinbach A, Tanuwidjaja I, Tebbe CC, Wick LY, Woche SK, Totsche KU, Schloter M, Kögel-Knabner I (2017): Interaction of minerals, organic matter, and microorganisms during biogeochemical interface

formation as shown by a series of artificial soil experiments. *Biology and Fertility of Soils* 53: 9-22.

Wang S, **Miltner A**, Kästner M, Schäffer A, Nowak KM (2017): Transformation of metamitron in water-sediment systems: Detailed insight into the biodegradation processes. *Science of the Total Environment* 578: 100-108.

López-Martín M, Nowak KM, **Miltner A**, Knicker H (2017): Incorporation of N from burnt and unburnt <sup>15</sup>N grass residues into the peptidic fraction of fire affected and unaffected soils. *Journal of Soils and Sediments* 17: 1554-1564

Worrich A, König S, Banitz T, Centler F, Frank K, Thullner M, Harms H, **Miltner A**, Wick LY, Kästner M (2016): Bacterial dispersal promotes biodegradation in heterogeneous systems exposed to osmotic stress. *Frontiers in Microbiology* 7, 1214.

Schaeffer A, Amelung W, Hollert H, Kaestner M, Kandeler E, Kruse J, **Miltner A**, Ottermanns R, Pagel H, Peth S, Poll C, Rambold G, Schloter M, Schulz S, Streck T, Roß-Nickoll M (2016): The impact of chemical pollution on the resilience of soils under multiple stresses: a conceptual framework for future research. *Science of the Total Environment* 568: 1076-1085.

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Wang S, Seiwert B, Kästner M, **Miltner A**, Schäffer A, Reemtsma T, Yang Q, Nowak KM (2016): (Bio)degradation of glyphosate in water-sediment microcosms - A stable isotope co-labeling approach. *Water Research* 99: 91-100.

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### **other journals**

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### **book chapters**

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### **PhD thesis**

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