

## List of Publications W. Amelung (last update: October 31, 2022)

### PUBLICATIONS IN SCIENTIFIC JOURNALS (PEER REVIEWED)

#### (1996)

**Amelung, W.**, and W. Zech. 1996. *Organic species in ped surface and core fractions along a climosequence in the prairie, North America*. Geoderma 74: 193-206.

Wilcke, W., and **W. Amelung**. 1996. *Small scale heterogeneity of Al and heavy metals in aggregates along a climatic transect*. Soil Sci. Soc. Am. J. 60: 1490-1495.

**Amelung, W.**, M.V. Cheshire, and G. Guggenberger. 1996. *Determination of neutral and acidic sugars from soil by capillary gas liquid chromatography after trifluoroacetic acid hydrolysis*. Soil Biol. Biochem. 28: 1631-1639.

Zhang, X., and **W. Amelung**. 1996. *Gas chromatographic determination of muramic acid, glucosamine, mannosamine and galactosamine in soils*. Soil Biol. Biochem. 28: 1201-1206.

#### (1997)

**Amelung, W.**, K.-W. Flach, and W. Zech. 1997. *Climatic effects on soil organic matter composition in the Great Plains*. Soil Sci. Soc. Am. J. 61: 115-123.

Wilcke, W., **W. Amelung**, and W. Zech. 1997. *Heavy metals and polycyclic aromatic hydrocarbons (PAHs) in a rural community leewards of a waste incineration plant*. Z. Pflanzenernähr. Bodenkd. 160: 369-378.

**Amelung, W.**, K.W. Flach, and W. Zech. 1997. *Small scale heterogeneity of organic species in ped surface and core*. In: The role of humic substances in the ecosystems and in environmental protection (J. Drozd et al., eds). Proceedings of the 8th meeting of the International Humic Substances Society, Wroclaw, Poland, September 9-14, 1996, 221-226.

Zech, W., **W. Amelung**, and H. Neufeldt. 1997. *Organic matter in termite mounds of the Cerrados, Brazil*. In: The role of humic substances in the ecosystems and in environmental protection (J. Drozd et al., eds). Proceedings of the 8th meeting of the International Humic Substances Society, Wroclaw, Poland, September 9-14, 1996, 263-268.

Zhang, XD., **W. Amelung**, Y. Yuan, and W. Zech. 1997. *Amino sugars in soils of the North American cultivated prairie*. Z. Pflanzenernähr. Bodenkd 160: 533-538.

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**Amelung, W.**, K.W. Flach, and W. Zech. 1998. *Climatic effects on C-pools of native and cultivated prairie*. Advances in GeoEcology 31, 217-225.

Zhang, XD., **W. Amelung**, and W. Zech. 1998. *Can amino sugars serve as indicators for the impact of climate variations and land use on soil organic matter?* Advances in GeoEcology 31, 225-231.

**Amelung, W.**, W. Zech, X. Zhang, A. Sajjapongse, and C. Niamskul. 1998. *Lignin and carbohydrates in soils under secondary forest, alley cropping and continuous farming, Thailand*. Z. Pflanzenernähr. Bodenkd. 161: 297-302.

**Amelung, W.**, W. Zech, X. Zhang, R.F. Follett, H. Tiessen, E. Knox, and K.W. Flach. 1998. *Carbon, nitrogen, and sulfur pools in particle size fractions as influenced by climate*. Soil Sci. Soc. Am. J. 62: 172-181.

Zhang, X.D., **W. Amelung**, Y. Yuan, and W. Zech. 1998. *Amino sugar signature of particle-size fractions in soils of the native prairie as affected by climate*. Soil Sci. 163: 220-229.

Rodionov, A., **W. Amelung**, I. Urusewskaja, and W. Zech. 1998. *Beziehungen zwischen Klimafaktoren und C-, N-Pools in Korngrößenfraktionen zonaler Steppenböden Russlands*. Z. Pflanzenernähr. Bodenkd., 161: 563-569.

Sumann, M., **W. Amelung**, L. Haumaier, and W. Zech. 1998. *Climatic effects on soil organic phosphorus in the North American Great Plains identified by phosphorus-31 nuclear magnetic resonance*. Soil Sci. Soc. Am. J. 62: 1580-1586.

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Zhang, X., **W. Amelung**, Y. Yuan, S. Samson-Liebig, L. Brown, and W. Zech. 1999. *Land-use effects on amino sugars in particle-size fractions of an Argiudoll*. Appl. Soil Ecol. 11: 271-275.

**Amelung, W.**, X. Zhang, and W. Zech. 1999. *Amino sugars in native grassland soils along a climosequence in North America*. Soil Sci. Soc. Am. J. 63: 86-92.

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Rodionov, A., **W. Amelung**, I. Urusewskaja, and W. Zech. 1999. *Klimaeinfluss auf Lignin und Polysaccharide in Partikelgrößen-Fraktionen zonaler Steppenböden Russlands*. J. Plant Nutr. Soil Sci. 162: 231-238.

**Amelung, W.**, R. Bol, and C. Friedrich, 1999. *Natural <sup>13</sup>C abundance: A tool to trace the incorporation of dung-derived C into soil particle-size fractions*. Rapid Comm. Mass Spectrom. 13: 1291-1294.

**Amelung, W.**, and W. Zech. 1999. *Minimisation of organic matter disruption during particle-size fractionation of grassland epipedons*. Geoderma 92: 73-85.

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- Wilcke, W., **W. Amelung**, C. Martius, M.V.B. Garcia, and W. Zech. 2000. *Biological sources of polyaromatic hydrocarbons (PAHs) in the Amazonian rain forest*. J. Plant Nutr. Soil Sci. 163: 27-30.
- Martius, C., **W. Amelung**, and M.V.B. Garcia. 2000. *The Amazonian forest termite Constrictotermes cavifrons (Isoptera: Termitidae) feeds on microepiphytes*. Sociobiology 35: 379-383.
- Laabs, V., **W. Amelung**, A.A. Pinto, A. Altstaedt, and W. Zech. 2000. *Leaching and degradation of corn and soybean pesticides in an Oxisol of the Brazilian Cerrados*. Chemosphere 41: 1441-1449.
- Bol, R., **W. Amelung**, C. Friedrich, and N. Ostle. 2000. *Tracing dung-derived carbon in temperate grassland using <sup>13</sup>C natural abundance measurements*. Soil Biol. Biochem. 32: 1337-1344.
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- Amelung, W.**, J.M. Kimble, S. Samson-Liebig, and R.F. Follett. 2001. *Restoration of microbial residues in soils of the Conservation Reserve Program*. Soil Sci. Soc. Am. J. 65: 1704-1709.
- Amelung, W.**, and X. Zhang. 2001. *Determination of amino acid enantiomers in soils*. Soil Biol. Biochem. 33: 553-562.
- Lobe, I., **W. Amelung**, and C.C. du Preez. 2001. *Losses of carbon and nitrogen with prolonged arable cropping from sandy soils of the South African Highveld*. Eur. J. Soil Sci. 52: 93-101.
- Kristiansen, S.M., **W. Amelung**, and W. Zech. 2001. *Phosphorus forms as affected by abandoned anthills (Formica polyctena Förster) in forest soils: Sequential extraction and liquid-state <sup>31</sup>P-NMR spectroscopy*. J. Plant Nutr. Soil Sci. 164: 49-55.
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**Amelung, W.**, A. Miltner, X. Zhang, and W. Zech. 2001. *Fate of microbial residues during litter decomposition as affected by minerals*. Soil Sci. 166: 598-606.

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Reichenberger, S., **W. Amelung**, V. Laabs, A. Pinto, K.U. Totsche, and W. Zech. 2002. *Pesticide displacement along preferential flow pathways in a Brazilian Oxisol*. Geoderma 110: 63-86.

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