

**List of publications**  
**Prof. Dr. Wolfgang Wilcke**

February 2021

**a. Dissertation**

**Wilcke, W.** (1996): Small-scale chemical heterogeneity in soils. Distribution of aluminum, heavy metals, and polycyclic aromatic hydrocarbons in aggregates. (In German.) *Bayreuther Bodenkundliche Berichte* **48**, 136 p.

**b. Habilitation**

**Wilcke, W.** (1999): Pollutants in soils of the temperate and tropical zones – pools, reactivity, trends. Partly in German. Cumulative.

**c. Peer-reviewed original research papers**

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**1994**

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1. Kayser, A.T., **W. Wilcke**, M. Kaupenjohann & J.D. Joslin (1994): Small-scale heterogeneity of soil chemical properties. I A rapid technique for aggregate fractionation. *Z. Pflanzenernähr. Bodenk.* **157**, 453-458.
2. **Wilcke, W.** & M. Kaupenjohann (1994): Small-scale heterogeneity of soil chemical properties. II Fractions of Al and heavy metals. *Z. Pflanzenernähr. Bodenk.* **157**, 459-465.

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3. Kaupenjohann, M. & **W. Wilcke** (1995): Heavy metal release from a serpentine soil using a pH-stat technique. *Soil Sci. Soc. Am. J.* **59**, 1027-1031.

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4. Kaiser K. & **W. Wilcke** (1996): Pedogenetic differentiation of soil properties on the aggregate level. (In German.) *Z. Pflanzenernähr. Bodenk.* **159**, 599-603.
5. **Wilcke, W.** & A. Amelung (1996): Small-scale heterogeneity of Al and heavy metals in aggregates along a climatic transect. *Soil Sci. Soc. Am. J.* **60**, 1490-1495.
6. **Wilcke, W.**, R. Bäumler, H. Deschauer, M. Kaupenjohann & W. Zech (1996): Small-scale distribution of Al, heavy metals, and PAHs in an aggregated Alpine Podzol. *Geoderma* **71**, 19-30.
7. **Wilcke, W.**, W. Zech & J. Kobza (1996): PAH pools in soils along a PAH deposition gradient. *Environ. Pollut.* **92**, 307-313.

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9. Bundt, M., S. Kretzschmar, W. Zech & **W. Wilcke** (1997): Seasonal redistribution of manganese in soil aggregates of a Costa Rican coffee field. *Soil Sci.* **162**, 641-647.
10. Bundt, M., S. Kretzschmar, W. Zech & **W. Wilcke** (1997): Seasonal dynamics of nutrients in leaves and xylem sap of coffee plants as related to different soil compartments. *Plant Soil* **197**, 157-166.

11. **Wilcke, W.** & M. Kaupenjohann (1997): Differences in concentrations and fractions of Al and heavy metals between aggregate interior and exterior. *Soil Sci.* **162**, 323-332.
12. **Wilcke, W.** & W. Zech (1997): Polycyclic aromatic hydrocarbons (PAHs) in forest floors of the northern Czech mountains. *Z. Pflanzenernähr. Bodenk.* **160**, 369-378.
13. **Wilcke, W.,** W. Amelung & W. Zech (1997): Heavy metals and polycyclic aromatic hydrocarbons (PAHs) in a rural community leewards of a waste incineration plant. *Z. Pflanzenernähr. Bodenk.* **160**, 369-378.

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14. Lilienfein, J., **W. Wilcke,** M.A. Ayarza & W. Zech (1998): Land-use effects on organic carbon, nitrogen, and sulphur concentrations in macroaggregates of differently textured Brazilian Oxisols. *Z. Pflanzenernähr. Bodenk.* **161**, 165-171.
15. Lobe, I., **W. Wilcke,** J. Kobza & W. Zech (1998): Heavy metal contamination of soils in northern Slovakia. *Z. Pflanzenernähr. Bodenk.* **161**, 541-546.
16. **Wilcke, W.** & M. Kaupenjohann (1998): Heavy metal distribution between soil aggregate core and surface fractions along gradients of deposition from the atmosphere. *Geoderma* **83**, 55-66.
17. **Wilcke, W.** & W. Zech (1998): Polychlorinated biphenyls (PCBs) in bulk soil and particle-size separates of soils in a rural community. *Z. Pflanzenernähr. Bodenk.* **161**, 289-295.
18. **Wilcke, W.,** S. Kretzschmar, M. Bundt, G. Saborío & W. Zech (1998): Aluminum and heavy metal partitioning in A horizons of soils in Costa Rican coffee plantations. *Soil Sci.* **163**, 463-471.
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20. **Wilcke, W.,** S. Müller, N. Kanchanakool & Wolfgang Zech (1998): Urban soil contamination in Bangkok: heavy metal and aluminium partitioning in topsoils. *Geoderma* **86**, 211-228.

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36. Totsche, K.U., **W. Wilcke**, M. Körber, J. Kobza & W. Zech (2000): Evaluation of fluoride-induced metal mobilization in soil columns. *J. Environ. Qual.* **29**, 454-459.
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60. Lilienfein, J. & **W. Wilcke** (2003): Element storage in native, agri-, and silvicultural ecosystems of the Brazilian savanna – I. Biomass, carbon, nitrogen, phosphorus, and sulfur. *Plant Soil* **254**, 425-442.
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