

SPP 1090: Synthesis papers

- Bachmann, J., Guggenberger, G., Baumgartl, T., Ellerbrock, R., Fischer, W.R., Goebel, M.-O., Horn, R., Jasinska, E., Kaiser, K., 2008. Scale-dependent physical protection of soil organic matter: Sorption mechanisms, wettability and aggregate stability. *Journal of Plant Nutrition and Soil Science* 171, 14-26.
- Ekschmitt, K., Kandeler, E., Poll, C., Brune, A., Buscot, F., Friedrich, M., Gleixner, G., Hartmann, A., Kästner, M., Marhan, S., Miltner, A., Scheu, S., Wolters, V., 2008. Soil carbon preservation through habitat constraints and biological limitations on decomposer activity. *Journal of Plant Nutrition and Soil Science* 171, 27-35.
- Flessa, H., Amelung, W., Helfrich, M., Wiesenberg, G.L.B., Gleixner, G., Brodowski, S., Rethemeyer, J., Kramer, C., Grootes, P.-M., 2008. Storage and stability of organic matter and fossil carbon in a Luvisol and Phaeozem with continuous maize cropping: A synthesis. *Journal of Plant Nutrition and Soil Science* 171, 36-51.
- Kalbitz, K., Kaiser, K., 2008. Contribution of dissolved organic matter to carbon storage in forest mineral soils. *Journal of Soil Science and Plant Nutrition* 171, 52-60.
- Kögel-Knabner, I., Ekschmitt, K., Flessa, H., Guggenberger, G., Matzner, E., Marschner, B., v. Lützw, M., 2008. An integrative approach of organic matter stabilization in temperate soils: linking chemistry, physics and biology. *Journal of Plant Nutrition and Soil Science* 171, 5-13.
- Kögel-Knabner, I., Guggenberger, G., Kleber, M., Kandeler, E., Kalbitz, K., Scheu, S., Eusterhues, K., Leinweber, P., 2008. Organo-mineral associations in temperate soils: integrating biology, mineralogy and organic matter chemistry. *Journal of Plant Nutrition and Soil Science* 171, 61-82.
- Ludwig, B., Kuka, K., Franko, U., v. Lützw, M., 2008. Comparison of two quantitative soil organic carbon models with a conceptual model using data from two agricultural long term experiments. *Journal of Plant Nutrition and Soil Science* 171, 83-90.
- Marschner, B., Brodowski, S., Dreves, A., Gleixner, G., Grootes, P.-M., Hamer, U., Heim, A., Jandl, G., Ji, R., Kaiser, K., Kalbitz, K., Kramer, C., Leinweber, P., Rethemeyer, J., Schmidt, M.W.I., Schwark, L., Wiesenberg, G.L.B., 2008. How relevant is recalcitrance for the stabilization of organic matter in soils? *Journal of Plant Nutrition and Soil Science* 171, 91-110.
- v. Lützw, M., Kögel-Knabner, I., Ludwig, B., Matzner, E., Flessa, H., Ekschmitt, K., Guggenberger, G., Marschner, B., Kalbitz, K., 2008. Stabilization mechanisms of organic matter in four temperate soils: Development and application of a conceptual model. *Journal of Plant Nutrition and Soil Science* 171, 111-125.

SPP 1090: Review papers

- Ekschmitt, K., Liu, M., Vetter, S., Fox, O., Wolters, V., 2005. Strategies used by soil biota to overcome soil organic matter stability - why is dead organic matter left over in the soil? *Geoderma* 128, 167-176.
- v. Lützw, M., Kögel-Knabner, I., Ekschmitt, K., Matzner, E., Guggenberger, G., Marschner, B., Flessa, H., 2006. Stabilization of organic matter in temperate soils: Mechanisms and their relevance under different soil conditions - a review. *European Journal of Soil Science* 57, 426-445.
- v. Lützw, M., Kögel-Knabner, I., Ekschmitt, K., Flessa, H., Guggenberger, G., Matzner, E., Marschner, B., 2007. SOM fractionation methods: Relevance to functional pools and to stabilization mechanisms - a review. *Soil Biology & Biochemistry* 39, 2183-2207.