

References in Geology, Soils and Land Use

- Gerke, H. H., Hierold, W. (2012). Vertical bulk density distribution in C-horizons from marley till as indicator for erosion history in a hummocky post-glacial soil landscape. *Soil & Tillage Research* 125, 116-122.
- Gerke, H. H., Rieckh, H., Sommer, M. (2016). Interactions between crop, water, and dissolved organic and inorganic carbon in a hummocky landscape with erosion-affected pedogenesis. *Soil & Tillage Research* 156, 230-244.
- Kalettko, T., Rudat, C., (2006). Hydrogeomorphic types of glacially created kettleholes in North-East Germany. *Limnologica* 36, 54–64.
- Koszinski, S., Gerke, H. H., Hierold, W., Sommer, M. (2013). Geophysical-based modeling of a kettle hole catchment of the morainic soil landscape. *Vadose Zone Journal* 12, 4.
- Sommer, M., Gerke, H. H., Deumlich, D. (2008). Modelling soil landscape genesis: A "time split" approach for hummocky agricultural landscapes. *Geoderma* 145, 3-4, 480-493.
- Wulf, M., Jahn, U., Meier, K. (2016). Land cover composition determinants in the Uckermark (NE Germany) over a 220-year period. *Regional Environmental Change* 16, 6, 1793-1805.
- Wulf, M., Jahn, U., Meier, K., Radtke, M. (2017). Tree species composition of a landscape in north-eastern Germany in 1780, 1890 and 2010. *Forestry* 90, 2, 174-186.

References in Hydrology and Kettle Holes

- Kalettko, T., Rudat, C., Quast, J. (2001): „Potholes“ in Northeast German Agro-landscapes: Functions, Land Use Impacts, and Protection Strategies. – in: Tenhunen, J.D., Lenz, R., Hantschel, R. (eds.): *Ecosystem Approaches to Landscape Management in Central Europe*. Ecological Studies, Springer-Heidelberg, 147: 291-298
- Kalettko, T., Rudat, C., (2006). Hydrogeomorphic types of glacially created kettleholes in North-East Germany. *Limnologica* 36, 54–64.
- Kazanjian, G., Flury, S., Attermeyer, K., Kalettko, T., Kleeberg, A., Premke, K., Köhler, J., Hilt, S. (2018). Primary production in nutrient-rich kettle holes and consequences for nutrient and carbon cycling. *Hydrobiologia* 806, 1, 77-93.
- Kleeberg, A., Neyen, M., Schkade, U.-K., Kalettko, T., Lischeid, G. (2016a). Sediment cores from kettle holes in NE Germany reveal recent impacts of agriculture. *Environmental Science and Pollution Research* 23, 8, 7409-7424.
- Kleeberg, A., Neyen, A., Kaletka, T. (2016b). Element-specific downward fluxes impact the metabolism and vegetation of kettle holes. *Hydrobiologia* 766: 261-274.

Lischeid, G., Kalettka, T. (2012). Grasping the heterogeneity of kettle hole water quality in Northeast Germany. *Hydrobiologia* 689(1): 63-77, DOI: 10.1007/s10750-011-0764-7

Lischeid, G., Balla, D., Dannowski, R., Dietrich, O., Kalettka, T., Merz, C., Schindler, U., Steidl, J. (2017a). Forensic hydrology: what function tells about structure in complex settings. *Environmental Earth Sciences* 76, 1, Article: 40.

Lischeid, G., Kalettka, T., Holländer, M., Steidl, J., Merz, C., Dannowski, R., Hohenbrink, T., Lehr, C., Onandia, G., Reverey, F., Pätzig, M. (2017b). Natural ponds in an agricultural landscape: External drivers, internal processes, and the role of the terrestrial-aquatic interface. *Limnologica*, DOI: 10.1016/j.limno.2017.01.003.

Lorenz, S., Rasmussen, J. J., Süß, A., Kalettka, T., Golla, B., Horney, P., Stähler, M., Hommel, B., Schäfer, R. B. (2017). Specifics and challenges of assessing exposure and effects of pesticides in small water bodies. *Hydrobiologia* 793, 1, 213-224.

Merz, C., Steidl, J. (2015). Data on geochemical and hydraulic properties of a characteristic confined/unconfined aquifer system of the younger Pleistocene in northeast Germany. *Earth System Science Data* 7, 1, 109-116.

Nitzsche, K., Kalettka, T., Premke, K., Lischeid, G., Geßler, A., Kayler, Z. (2017). Land-use and hydroperiod affect kettle hole sediment carbon and nitrogen biogeochemistry. *Science of the Total Environment* 574, 46-56.

Pätzig, M., Kalettka, T., Glemnitz, M., Berger, G. (2012). What governs macrophyte species richness in kettle hole types?: a case study from Northeast Germany. *Limnologica* 42, 4, 340-354.

Premke, K., Attermeyer, K., Augustin, J., Cabezas, A., Casper, P., Deumlich, D., Gelbrecht, J., Gerke, H. H., Geßler, A., Grossart, H.-P., Hilt, S., Hupfer, M., Kalettka, T., Kayler, Z., Lischeid, G., Sommer, M., Zak, D. (2016). The importance of landscape diversity for carbon fluxes at the landscape level: small-scale heterogeneity matters. *Wiley Interdisciplinary Reviews: Water* 3, 4, 601-617.

Reverey, F., Grossart, H.-P., Premke, K., Lischeid, G. (2016). Carbon and nutrient cycling in kettle hole sediments depending on hydrological dynamics: a review. *Hydrobiologia* 775, 1, 1.

Reverey, F., Ganzert, L., Lischeid, G., Ulrich, A., Premke, K., Grossart, H.-P. (2018). Dry-wet cycles of kettle hole sediments leave a microbial and biogeochemical legacy. *Science of the Total Environment* 627(15): 985–996-20.

References in Research concept

Brandt, K. L., Glemnitz, M. (2014). Assessing the regional impacts of increased energy maize cultivation on farmland birds. *Environmental Monitoring and Assessment* 186, 2, 679-697.

Lischeid, G., Kalettka, T., Merz, C., Steidl, J. (2016). Monitoring the phase space of ecosystems: Concept and examples from the Quillow catchment, Uckermark. *Ecological Indicators* 65:55-65, DOI: 10.1016/j.ecolind.2015.10.067.

Müller, M.E.H., Korn, U. (2013). *Alternaria* mycotoxins in wheat – A 10 years survey in the Northeast of Germany. *Food Control* 34: 191-197.

Müller, M.E.H., Brenning, A., Verch, G., Koszinski, S., Sommer, M. (2010). Multifactorial spatial analysis of mycotoxin contamination of winter wheat at the field and landscape scale. *Agriculture, Ecosystems and Environment* 139: 245-254.

Sommer, M., Augustin, J., Kleber, M. (2016). Feedbacks of soil erosion on SOC patterns and carbon dynamics in agricultural landscapes - the CarboZALF experiment. *Soil & Tillage Research* 156, 182-184.

Wehrhan, M., Rauneker, P., Sommer, M. (2016). UAV-based estimation of carbon exports from heterogeneous soil landscapes - a case study from the CarboZALF experimental area. *Sensors* 16, 2, Article: 255.

References in Research infrastructure

Hoffmann, M., Pohl, M., Jurisch, N., Prescher, A.-K., Mendez Campa, E., Hagemann, U., Remus, R., Verch, G., Sommer, M., Augustin, J. (2018). Maize carbon dynamics are driven by soil erosion state and plant phenology rather than nitrogen fertilization form. *Soil & Tillage Research* 175, 255-266.

Hoffmann, M., Jurisch, N., Garcia Alba, D. J., Albiac Borraz, E., Schmidt, M., Huth, V., Rogasik, H., Rieckh, H., Verch, G., Sommer, M., Augustin, J. (2017). Detecting small-scale spatial heterogeneity and temporal dynamics of soil organic carbon (SOC) stocks: a comparison between automatic chamber-derived C budgets and repeated soil inventories. *Biogeosciences* 14, 1003-1019.

Sommer, M., Augustin, J., Kleber, M. (2016). Feedbacks of soil erosion on SOC patterns and carbon dynamics in agricultural landscapes - the CarboZALF experiment. *Soil & Tillage Research* 156, 182-184.

Gerke, H. H., Rieckh, H., Sommer, M. (2016). Interactions between crop, water, and dissolved organic and inorganic carbon in a hummocky landscape with erosion-affected pedogenesis. *Soil & Tillage Research* 156, 230-244.

Pütz, T., Kiese, R., Wollschläger, U., Groh, J., Rupp, H., Zacharias, S., Priesack, E., Gerke, H. H., Gasche, R., Bens, O., Borg, E., Baessler, C., Kaiser, K., Herbrich, M., Munch, J.-C., Sommer, M.,

Vogel, H.-J., Vanderborght, J., Vereecken, H. (2016). TERENO-SOILCan: a lysimeter-network in Germany observing soil processes and plant diversity influenced by climate change. *Environmental Earth Sciences* 75, 18, Article: 1242