# Refereed journals

1. RECHBERGER, M.V., S. KLOSS, H. RENNHOFER, J. TINTNER, A. WATZINGER, G. SOJA, H. LICHTENEGGER and F. ZEHETNER: Changes in biochar physical and chemical properties: Accelerated biochar aging in an acidic soil. Carbon 115, 209-219, 2017.

doi: 10.1016/j.carbon.2016.12.096

1. BURRELL, L.D., F. ZEHETNER, N. RAMPAZZO, B. WIMMER and G. SOJA: Long term effects of biochar on soil physical properties. Geoderma 282, 96-102, 2016.

[doi: 10.1016/j.geoderma.2016.07.019](http://dx.doi.org/10.1016/j.geoderma.2016.07.019)

1. BÜCKER, J., S. KLOSS, B. WIMMER, F. REMPT, F. ZEHETNER and G. SOJA: Leachate composition of temperate agricultural soils in response to biochar application. Water Air and Soil Pollution, 227, 49, 2016.

doi: 10.1007/s11270-016-2745-y

1. KLOSS, S., F. ZEHETNER, J. BUECKER, E. OBURGER, W.W. WENZEL, A. ENDERS, J. LEHMANN and G. SOJA: Trace element biogeochemistry in the soil-water-plant system of a temperate agricultural soil amended with different biochars. Environmental Science and Pollution Research 22, 4513-4526, 2015.

doi: 10.1007/s11356-014-3685-y

1. KLOSS, S., F. ZEHETNER, E. OBURGER, J. BÜCKER, B. KITZLER, W.W. WENZEL, B. WIMMER and G. SOJA: Trace element concentrations in leachates and mustard plant tissue (*Sinapis alba* L.) after biochar application to temperate soils. Science of the Total Environment 481, 498-508, 2014.

doi: 10.1016/j.scitotenv.2014.02.093

1. KLOSS, S., F. ZEHETNER, B. WIMMER, J. BÜCKER, F. REMPT and G. SOJA: Biochar application to temperate soils: Effects on soil fertility and crop growth under greenhouse conditions. Journal of Plant Nutrition and Soil Science 177, 3-15, 2014.

doi: 10.1002/jpln.201200282

1. PROMMER, J., W. WANEK, F. HOFHANSL, D. TROJAN, P. OFFRE, T. ULRICH, C. SCHLEPER, S. SASSMANN, B. KITZLER, G. SOJA and R.C. HOOD-NOWOTNY: Biochar decelerates soil organic nitrogen cycling but stimulates soil nitrification in a temperate arable field trial. PLoS ONE 9, e86388, 2014.

doi: 10.1371/journal.pone.0086388

1. WATZINGER, A., S. FEICHTMAIR, B. KITZLER, F. ZEHETNER, S. KLOSS, B. WIMMER, S. ZECHMEISTER-BOLTENSTERN and G. SOJA: Soil microbial communities responded to biochar application in temperate soils and slowly metabolized 13C labeled biochar as revealed by 13C PLFA analyses – results from a short term incubation and pot experiment. European Journal of Soil Science 65, 40-51, 2014.

doi: 10.1111/ejss.12100

1. KARER, J., B. WIMMER, F. ZEHETNER, S. KLOSS and G. SOJA: Biochar application to temperate soils: effects on nutrient uptake and crop yield under field conditions. Agricultural and Food Science 22, 390-403, 2013.

eid: 2-s2.0-84890646206

1. ANDERS, E., A. WATZINGER, F. REMPT, B. KITZLER, B. WIMMER, F. ZEHETNER, K. STAHR, S. ZECHMEISTER-BOLTENSTERN and G. SOJA: Biochar affects the structure rather than the total biomass of microbial communities in temperate soils. Agricultural and Food Science 22, 404-423, 2013.

eid: 2-s2.0-84890631397

1. SOJA, G., S. ZECHMEISTER-BOLTENSTERN, B. KITZLER, M. LAUER, V. LIEDTKE, A. WATZINGER, B. WIMMER and F. ZEHETNER: Biokohle für landwirtschaftliche Böden. Gaia 21, 238-240, 2012.
2. KLOSS, S., F. ZEHETNER, A. DELLANTONIO, R. HAMID, F. OTTNER, V. LIEDTKE, M.H. GERZABEK and G. SOJA: Characterization of slow pyrolysis biochars: Effects of feedstocks and pyrolysis temperature on biochar properties. Journal of Environmental Quality 41, 990-1000, 2012.

doi:10.2134/jeq2011.0070