



INSTITUTE OF AGRICULTURAL RESOURCES  
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## Research Interests

- Soil carbon and nitrogen cycling
- Efficient use of fertilizer
- Research and application of biochar-based fertilizer

## Publication

**High adsorption capacity of MgeAl-modified biochar for phosphate and its potential for phosphate interception in soil**, Chemosphere, 2020, DOI: 10.1016/j.chemosphere.2020.127469

**Combined biochar and nitrogen fertilizer change soil enzyme and microbial activities in a 2-year field trial**, European Journal of Soil Biology, 2020, DOI: 10.1016/j.ejsobi.2020.103212

**Soil nutrient and microbial activity responses to two years after maize straw biochar application in a calcareous soil**, Ecotoxicology and Environmental Safety, 2019, DOI: 10.1016/j.ecoenv.2019.04.073

**Responses of soil nutrients and microbial activities to additions of maize straw biochar and chemical fertilization in a calcareous soil**, European Journal of Soil Biology, 2018, DOI: 10.1016/j.ejsobi.2017.11.003

**The fate of <sup>15</sup>N-labelled urea in an alkaline calcareous soil under different N application rates**



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**and N splits**, Nutrient Cycling in Agroecosystems, 2016, DOI: 10.1007/s10705-016-9806-x

**Short-Term Responses of Soil Respiration and C-Cycle Enzyme Activities to Additions of Biochar and Urea in a Calcareous Soil**, Plos one, 2016, DOI: 10.1371/journal.pone.0161694

**Characteristics of maize biochar with different pyrolysis temperatures and its effects on organic carbon, nitrogen and enzymatic activities after addition to fluvo-aquic soil**, Science of the Total Environment, 2015, DOI: 10.1016/j.scitotenv.2015.08.026

**Maize biochar addition rate influences soil enzyme activity and microbial community composition in a fluvo-aquic soil**, Applied Soil Ecology, 2015, DOI: 10.1016/j.apsoil.2015.08.018

**The alleviation of acid soil stress in rice by inorganic or organic ameliorants is associated with changes in soil enzyme activity and microbial community composition**, Biology and Fertility of Soils, 2015, DOI: 10.1007/s00374-015-0994-3

**Effects of straw addition on increased greenhouse vegetable yield and reduced antibiotic residue in fluvo-aquic soil**, Journal of Integrative Agriculture, 2015, DOI: 10.1016/S2095-3119(14)60878-9