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Research Interests

- **Molecular mechanism of N, P uptake in plants**
- **Molecular mechanism of plants in reponses to environmental stress**
- **New biological fertilizer**

Publication

Composition, predicted functions, and co-occurrence networks of fungal and bacterial communities-Links to soil organic carbon under long-term fertilization in a rice-wheat cropping system, EUROPEAN JOURNAL OF SOIL BIOLOGY, 2020, DOI: 10.1016/j.ejsobi.2020.103226

A distinctive root-inhabiting denitrifying community with high N2O/(N2O+N-2) product ratio, SOIL BIOLOGY & BIOCHEMISTRY, 2017, DOI: 10.1016/j.soilbio.2017.02.008

Selection and evaluation of high-nitrogen efficiency of early rice cultivars in red soil agro-ecosystem in South China, IEEE Xplore, 2017, DOI: 10.1109/Agro-Geoinformatics.2017.8047060

Monitoring of nitrogen cycling and balance in maize monoculture agro-ecosystem in northeast China black soil, IEEE Xplore, 2016, DOI: 10.1109/Agro-Geoinformatics.2016.7577704

Fatty - Acid Profiles and Enzyme Activities in Soil Particle - Size Fractions under Long - Term

Fertilization, SOIL BIOLOGY & BIOCHEMISTRY, 2016, DOI: 10.2136/sssaj2015.07.0255

Distribution of soil nutrients, extracellular enzyme activities and microbial communities across particle-size fractions in a long-term fertilizer experiment, APPLIED SOIL ECOLOGY, 2015, DOI: 10.1016/j.apsoil.2015.05.005

Reduced dependence of rhizosphere microbiome on plant-derived carbon in 32-year long-term inorganic and organic fertilized soils, SOIL BIOLOGY & BIOCHEMISTRY, 2015, DOI: 10.1016/j.soilbio.2014.09.028

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 volume, 2015, DOI: 10.1007/s00374-015-0994-3

Functional analysis of BpDREB2 gene involved in salt and drought response from a woody plant Broussonetia papyrifera, Gene, 2014, DOI: 10.1016/j.gene.2013.11.047

Different roles of rhizosphere effect and long-term fertilization in the activity and community structure of ammonia oxidizers in a calcareous fluvo-aquic soil, SOIL BIOLOGY & BIOCHEMISTR, 2013, DOI: 10.1016/j.soilbio.2012.08.003