



INSTITUTE OF AGRICULTURAL RESOURCES  
AND REGIONAL PLANNING, CAAS

# Pang Huancheng



Professor



Ph.D. Supervisor



86-10-82109739



panghuancheng@caas.cn



Innovation Team of Saline-alkali Soils Amelioration, IARRP, CAAS



Quhua Building, 12 Zhongguancun Nandajie Street, Haidian District, Beijing, China

## Research Interests

- Mechanism of saline-alkali soils amelioration
- Straw granulated fertilization techniques and carbon sequestration mechanism
- Soil tillage and cropping systems

## Publication

Increasing straw incorporation rates improves subsoil fertility and crop yield in the Huang-HuaiHai Plain of China, Archives of Agronomy and Soil Science, 2020, DOI: 10.1080/03650340.2019.1704735

Depth of straw incorporation significantly alters crop yield, soil organic carbon and total nitrogen in the North China Plain, Soil & Tillage Research, 2021, DOI: 10.1016/j.still.2020.104772

Changes in soil organic carbon and microbial community under varying straw incorporation strategies, Soil & Tillage Research, 2020, DOI: 10.1016/j.still.2020.104735

Effects of pelletized straw on soil nutrient properties in relation to crop yield, Soil Use and Management, 2018, DOI: 10.1111/sum.12450

Effect of Returning Chopped and Pelletized Straw at A High Rate Enhancing Soil Organic Carbon in Subsoil of Farmlands of Black Soil(CN), Acta Pedologica Sinica, 2020, DOI:



INSTITUTE OF AGRICULTURAL RESOURCES  
AND REGIONAL PLANNING , CAAS

10.11766/trxb201907150 244

**Effects and analysis of straw returning on subsoil microbial community structure in black soil(CN)**, Transactions of the Chinese Society of Agricultural Engineering (Transactions of the CSAE), 2020, DOI: 10.11975/j.issn.1002-6819.2020.01.013

**High dosage of pelletized straw returning rapidly improving soil organic carbon content and wheat-maize yield(CN)**, Transactions of the Chinese Society of Agricultural Engineering (Transactions of the CSAE), 2019, DOI: 10.11975/j.issn.1002-6819.2019.01.018

**Returning granulated straw for accelerating decomposition rate and improving soil fertility(CN)**, Transactions of the Chinese Society of Agricultural Engineering (Transactions of the CSAE), 2017, DOI: 10.11975/j.issn.1002-6819.2017.06.023

**Effects of Deep Straw Incorporation on Subsoil Physical Properties and Aggregate Distribution in Black Soil(CN)**, Acta Pedologica Sinica, 2021, DOI: 10.11766/trxb202003180714

**Buried straw layer plus plastic mulching improves organic matter fractions in an arid saline soil(CN)**, Soil & Tillage Research, 2017, DOI: 10.1016/j.still.2016.09.006