



INSTITUTE OF AGRICULTURAL RESOURCES  
AND REGIONAL PLANNING, CAAS

## Pan Junting



Professor



M.sc Supervisor



86-10-82106899



panjunting@caas.cn



Innovation Team of Non-point Source Pollution Control, IARRP,  
CAAS



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

### Research Interests

- Agricultural waste management
- Anaerobic digestion
- Composting
- Agricultural non-point source pollution
- Ecological design

### Publication

**Analysis of revolution in decentralized biogas facilities caused by transition in Chinese rural areas**, Renewable and Sustainable Energy Reviews, 2020, DOI: 10.1016/j.rser. 2020. 110133

**How exothermic characteristics of rice straw during anaerobic digestion affects net energy production**, Energy, 2020, DOI: 10.1016/j.energy.2020.118772

**Effect of clay on greenhouse gas emissions and humification during pig manure composting as supported by spectroscopic evidence**, Science of the Total Environment, 2020, DOI: 10.1016/j.scitotenv. 2020.139712

**Enhancing composition and heavy metals combined with humic substances by adding black**



**tourmaline during composting,** Microchemical Journal, 2020, DOI:  
10.1016/j.microc.2020.105356

**Achievements of biochar application for enhanced anaerobic digestion: A review,** Bioresource Technology, 2019, DOI: 10.1016/j.biortech.2019.122058

**Biochar triggering multipath methanogenesis and subdued propionic acid accumulation during semi-continuous anaerobic digestion,** Bioresource Technology, 2019, DOI:  
10.1016/j.biortech.2019.122026

**Effects of different types of biochar on the anaerobic digestion of chicken manure,** Bioresource Technology, 2019, DOI: 10.1016/j.biortech.2018.12.068

**Enhanced methane production and syntrophic connection between microorganisms during semi-continuous anaerobic digestion of chicken manure by adding biochar,** Journal of Cleaner Production, 2019, DOI: 10.1016/j.jclepro.2019.118178

**Influence of palygorskite addition on biosolids composting process enhancement,** Journal of Cleaner Production, 2019, DOI: 10.1016/j.jclepro.2019.01.227

**Reducing biogas emissions from village-scale plant with optimal floatingdrum biogas storage tank and operation parameters,** Applied Energy, 2017, DOI: 10.1016/j.apenergy.2017.10.036