



INSTITUTE OF AGRICULTURAL RESOURCES
AND REGIONAL PLANNING , CAAS

Pan Junting



Professor



Ph.D Supervisor



86-10-82107535



panjunting@caas.cn



Innovation Team of Agriculture Green Development Science and
Engineering, 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
- Agricultural biological environment and energy

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