

Dr Yue Zhang
Lecturer in Environmental Engineering



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Expertise

Dr Zhang's main research stream is directly related to current practice in bioenergy production via the anaerobic digestion route, and is a key research area at present for both renewable energy production and organic waste management. Her research focuses on microbial community structure and trace element requirements of the anaerobic digestion process for solid organic materials in order to identify the practical benefits this could give in terms of engineering control of these systems. Her main expertise is related to the operation and diagnosis of anaerobic digesters using high solids materials as feedstock, the study of microbial community structure and metabolic pathway by fluorescence in-situ hybridisation and radio-labelling tracer test.

Key publications related to the COST action

1. Banks, Charles J., Zhang, Yue, Jiang, Ying and Heaven, Sonia (2012) Trace element requirements for stable food waste digestion at elevated ammonia concentrations. *Bioresource Technology*, 104, 127-135.
2. Banks, Charles J., Zhang, Yue, Walker, Mark (2011) Optimising Processes for the Stable Operation of Food Waste Digestion: Technical Report Defra WR1208. Department of the Environment, Food and Rural Affairs, London, UK.