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Research Theme

Polymer and Natural Materials and Manufacturing (PNMM)

Research Areas

- Bioreactor optimization for waste minimization
- Waste to bioenergy conversion
- Resource recovery from waste
- Biodegradability assessment
- Anaerobic digestion
- Composting
- Odour minimization
- Fate of emerging trace contaminants

Research Facilities/Tools

- Advanced Anaerobic Digestion Facility (e.g., automated fermenters, temperature controlled shaker incubator, gas chromatographs, high temperature/pressure microwave, homogenizer, sonication unit)
- Particle Sizing, Zeta Potential and Imaging Facility (e.g., micro- and nano-scale particle sizers with wet and dry sample modules, micro-flow imaging)
- Micropollutant Detection Facility (e.g., ultra-high performance liquid chromatography system tandem with quadrupole mass spectrometer)

