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Summary

Approximately 7 Mt of organic wastes are currently recycled to produce various organic amendments in Australia, where a wide range of soil types and climate regimes are found across tropical, temperate, arid, and alpine regions. However, the underlying biogeochemical mechanisms responsible for carbon (C) sequestration and their influence on long-term soil fertility are still poorly understood. Therefore, my project aims to monitor the turnover and stabilization of Recycled Organic Waste (ROW)-derived-C, specifically associated with labile and stable soil C pools under different soil and climatic conditions. Improving our understanding of the factors governing soil C sequestration related to ROW will be vital for Australia in developing novel organic amendment products suitable for diverse soil and climatic conditions.

Research Expertise

- Climatology
- Geology
- Soil Science
- Spatial Analysis
- Analytical Chemistry
- Waste Management