

Research project and supervisory team

Supervisory Team	Dr. Mengxia Xu
Short introduction & description of research project	Title: AI-Empowered Green Thermal Process: Synergistic Detoxification and Upcycling of Multi-Source Solid Wastes Description: This project pioneers an AI-empowered thermal process for simultaneous detoxification and resource recovery of complex multi-source solid wastes. By integrating advanced thermal experiments with machine learning algorithms, this interdisciplinary study aims to unravel phase transformations and heavy metals immobilization mechanisms during waste co-processing. Ultimately, this project converts solid wastes into valuable secondary materials, driving industrial decarbonization and supporting the transition to a global circular economy.
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