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Multiphase Flow; Bioreactor; Chemical Extraction; Waste Valorization; Techno-economic analysis

My group applies multiphase flow engineering to advance sustainable food production, with research activities spanning the design and scale-up of microalgae bioreactors, protein extraction from microalgae, and techno-economic analysis to enable scalable production.

Potential Areas for Collaboration

- Sustainable Alternative Protein and Functional Ingredient Production
 - Waste Stream Valorization for Food-grade Bioprocesses
 - Advanced Bioreactor Design
 - Green Downstream Processing for Food Bioactives and Lipids
 - Process Modeling, Scale-up, Techno-economic and Life Cycle Assessment for Novel Food Technologies
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