



Environmental Biotechnology Laboratory

環境生物技術實驗室 (E3-114)

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Simultaneous nitrogen and sulfur removal through of sulfamnox, anammox and denitrification process

- Removal of ammonium and nitrate through anammox and autotrophic denitrification.
- Sulfate reducing ammonium oxidation (sulfamnox) process under anaerobic conditions.



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Iva Yenis

OAo processes / COD Classification / AI application

- Evaluating the effectiveness of nitrogen removal in anoxic conditions in OAo processes.
- Optimizing the operation parameters of OAo processes to achieve energy savings.



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佩慈



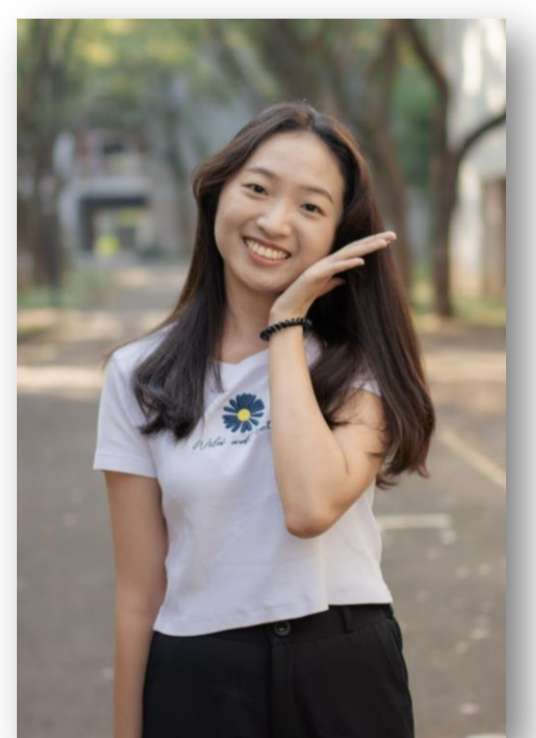
子翔

Phosphorus Removal and Recovery

- Recovery of phosphorus from wastewater by fluidized-bed crystallization.
- Removal of phosphorus from wastewater by adsorbent.
- Crystals product and reaction characteristics of FBC reactor for source recovery from sludge dewatering filtrate.



維潔



珮意

Sulfur Autotrophic Denitrification Process

- The denitrification process uses inorganic sulfur compounds as an electron donor.
- The development of sulfur carriers containing alkalinity sources in a fluidized bed bioreactor.
- Sulfur autotrophic denitrification is more economical and produces less sludge compared to traditional denitrification methods.



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冠穎



祐任