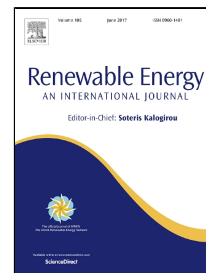


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Nutrient recovery and biogas generation from the anaerobic digestion of waste biomass from algal biofuel production

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## Highlights

- Lipid-extracted *Chlorella* biomass (LEA) is suitable for anaerobic digestion (AD).
- 38% of LEA COD was converted by AD to CH<sub>4</sub>, similar to whole cell algae (WCA).
- AD released more algal-N as NH<sub>4</sub><sup>+</sup>-N (62%) from LEA than from WCA (48%)
- AD released more algal-P as soluble P (94%) from LEA than from WCA (88%).
- Sonication during lipid-extraction improves nutrient yield and maintains CH<sub>4</sub> yield.

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