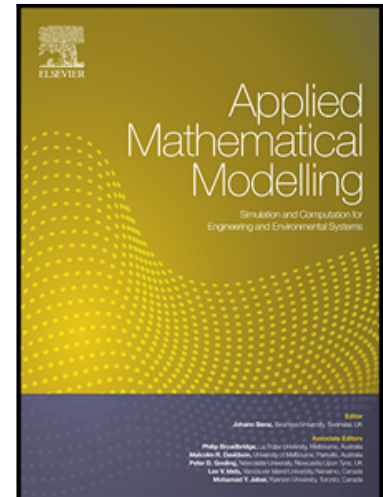


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Effect of control parameters on biogas production during the anaerobic digestion of protein-rich substrates

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**Highlights**

- A model of Anaerobic Digestion of protein-rich Microalgae (MAD) was analyzed
- An insight on the process behavior as a function of control parameters was provided
- Operating Diagram defined the ideal conditions to optimize biogas yield and ammonia toxicity
- Application of MAD model is limited in acidic environments
- Qualitative-quantitative properties of ADM1m model were derived from those of MAD

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