

Characterisation of Sludge Rheology and Sludge Mixing in Gas-mixed Anaerobic Digesters

Wei, P.

Publication date

2021

Document Version

Final published version

Citation (APA)

Wei, P. (2021). *Characterisation of Sludge Rheology and Sludge Mixing in Gas-mixed Anaerobic Digesters*.

Important note

To cite this publication, please use the final published version (if applicable).
Please check the document version above.

Copyright

Other than for strictly personal use, it is not permitted to download, forward or distribute the text or part of it, without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license such as Creative Commons.

Takedown policy

Please contact us and provide details if you believe this document breaches copyrights.
We will remove access to the work immediately and investigate your claim.

Propositions

Accompanying the dissertation

Characterisation of Sludge Rheology and Sludge Mixing in Gas-mixed Anaerobic Digesters

By Peng Wei

1. Flow and mixing assessment in full-scale anaerobic digesters considerably relies on appropriate rheological characterisation at low shear rates. (this thesis)
2. Model reliability cannot bend to the validation results, but should rely on uncertainty or inconsistency between the model setup and experimental conditions. (this thesis)
3. Regarding an engineering-oriented model, predictions of tendency or sensitivity rather than data accuracy are more important.
4. Challenge is like a yield-pseudoplastic fluid: you have to overcome the yield stress; then, the more force you use, the less you feel.
5. Commercial software is like a friend, when you are dedicated to work with it, you know what is reliable or what is fake; but in deep, there is still something unshared with you.
6. Innovation will happen when you hold all known with doubts, or even hold nothing known; but will not happen when you hold some known without any doubt.
7. For an environmental scientist, publication of results can be a stop-over, but finding a solution for an environmental problem should be the destination.
8. The ceiling of your vision is not determined by what you can see or accept, but by what you cannot.
9. In the COVID pandemic time, what we should learn is not only about self-protection, mutual understanding and support, but also about respect to nature.
10. Internet and modern social media help us to gain more information, but not more truth.

These propositions are regarded as opposable and defendable, and have been approved as such by the promoters Prof.dr.ir. J.B. van Lier, Prof.dr.ir. M.K. de Kreuk, and Prof.dr.ir. W.S.J. Uijttewaai.