

Stanford



Yinuo Yao

Postdoctoral Scholar, Energy Resources Engineering

 Curriculum Vitae available Online

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Stanford University , CEE-PHD (2021)
- Master of Science, Stanford University , ICME-MS (2021)
- Master of Science, Stanford University , CEE-MS (2017)
- Bachelor of Engineering, National University of Singapore , Environmental Engineering (2015)

Research & Scholarship

LAB AFFILIATIONS

- Ilenia Battiato (9/1/2021)
- Craig Criddle, Environmental Engineering Science Lab (9/1/2015 - - 9/23/2021)

Publications

PUBLICATIONS

- **CFD-accelerated bioreactor optimization: reducing the hydrodynamic parameter space** *ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY*
Yao, Y., Fringer, O. B., Criddle, C. S.
2022
- **Competing flow and collision effects in a monodispersed liquid-solid fluidized bed at a moderate Archimedes number** *JOURNAL OF FLUID MECHANICS*
Yao, Y., Criddle, C. S., Fringer, O. B.
2021; 927
- **Comparison of the properties of segregated layers in a bidispersed fluidized bed to those of a monodispersed fluidized bed** *PHYSICAL REVIEW FLUIDS*
Yao, Y., Criddle, C. S., Fringer, O. B.
2021; 6 (8)
- **The effects of particle clustering on hindered settling in high-concentration particle suspensions** *JOURNAL OF FLUID MECHANICS*
Yao, Y., Criddle, C. S., Fringer, O. B.
2021; 920
- **Robust Nitrification of Anaerobic Digester Centrate Using Dual Stressors and Timed Alkali Additions.** *Environmental science & technology*
Yao, Y., Wang, Z., Criddle, C. S.
2021
- **Impacts of nitrogen-containing coagulants on the nitrification/denitrification of anaerobic digester centrate** *ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY*

Wang, Z., Yao, Y., Steiner, N., Cheng, H., Wu, Y., Woo, S., Criddle, C. S.

2020; 6 (12): 3451–59

- **Nitrogen removal as nitrous oxide for energy recovery: Increased process stability and high nitrous yields at short hydraulic residence times.** *Water research*

Wang, Z. n., Woo, S. G., Yao, Y. n., Cheng, H. H., Wu, Y. J., Criddle, C. S.

2020; 173: 115575

- **Bio-entrapped membrane reactor and salt marsh sediment membrane bioreactor for the treatment of pharmaceutical wastewater: Treatment performance and microbial communities** *BIORESOURCE TECHNOLOGY*

Ng, K. K., Shi, X., Yao, Y., Ng, H. Y.

2014; 171: 265-273