

Lect. PhD AHMET ERKAN UMAN

Personal Information

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Education Information

Doctorate, University of South Florida, College of Engineering , Civil and Environmental Engineering, United States Of America 2015 - 2020

Post Graduate, Cornell University, College of Engineering , Biological and Environmental Engineering, United States Of America 2012 - 2015

Under Graduate, Cukurova University, Mühendislik Fakültesi, Çevre Mühendisliği, Turkey 2005 - 2010

Certificates, Courses and Trainings

Vocational Training, MCB63X: Principles of Biochemistry, HarvardX, edX, 2021

Dissertations

Doctorate, Development of an Integrated Direct Membrane Filtration (DMF) and Anaerobic Membrane Bioreactor (AnMbr) System for Dilute Municipal Wastewater Treatment, University of South Florida, College of Engineering , Civil and Environmental Engineering, 2020

Post Graduate, A Fenton Reaction In The Recirculated Biosolids Line Of An Anaerobic Digestion System, Cornell University, College of Engineering , Biological and Environmental Engineering, 2015

Research Areas

Environmental Engineering, Environmental Microbiology, Environmental Technology, Waste Water Collection and Treatment, Water Pollution and Control

Academic Titles / Tasks

Lecturer PhD, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Bioengineering , 2020 - Continues

Research Assistant, University of South Florida, Civil and Environmental Engineering, Environmental Engineering, 2015 - 2020

Research Assistant, Cornell University, Biological and Environmental Engineering Department, Environmental Engineering, 2012 - 2014

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Assessment of an Anaerobic Membrane Bioreactor (AnMBR) Treating Medium-Strength Synthetic Wastewater under Cyclical Membrane Operation.**
Uman A. E. , Bair R. A. , Yeh D. H.
Membranes, vol.11, no.6, 2021 (Journal Indexed in SCI Expanded)
- II. **Discharge or reuse? Comparative sustainability assessment of anaerobic and aerobic membrane bioreactors**
Xu X., Dao H., Bair R., UMAN A. E. , Yeh D., Zhang Q.
JOURNAL OF ENVIRONMENTAL QUALITY, vol.49, no.3, pp.545-556, 2020 (Journal Indexed in SCI)
- III. **Controlled experiment contradicts the apparent benefits of the Fenton reaction during anaerobic digestion at a municipal wastewater treatment plant**
UMAN A. E. , Usack J. G. , Lozano J. L. , Angenent L. T.
WATER SCIENCE AND TECHNOLOGY, vol.78, no.9, pp.1861-1870, 2018 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Large variability of thickened sludge quality at a municipal plant makes n=1 experiment with digestion invalid: n=2 with pilot reactor experiment shows excellent reproducibility.**
Uman A. E. , Usack J., Lozano J., Angenent L.
15th World Congress on Anaerobic Digestion, Beijing, China, 17 - 20 October 2017, pp.150-163

Citations

Total Citations (WOS):5

h-index (WOS):2