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Expertise

Bariş ÇALLI is a professor at Marmara University, Environmental Engineering Department and the Director of Marmara University, Centre for Environmental Studies in Istanbul, Turkey. He has graduated from Marmara University with an MSc in Environmental Engineering in 1999 and received his PhD degree in 2003 in Environmental Technology from Bogaziçi University in Istanbul. In 2006, he was awarded a Marie Curie Intra European Fellowship and participated in a research project in VITO, Belgium on dark fermentative hydrogen production from biomass. Since 2008, he is working as full-time professor in Marmara University and has been involved in many research projects on anaerobic digestion, bioelectrochemical systems, composting, landfilling and landfill leachate management.

Key papers related to the COST action

1. Tugtas A.E., Cavdar P., **Calli B.** (2013) Bio-electrochemical post-treatment of anaerobically treated landfill leachate. Bioresource Technology, 128, 266-272.
2. Cavdar P., Yilmaz E., Tugtas A.E., **Calli B.** (2011) Acidogenic fermentation of municipal solid waste and its application to bio-electricity production via microbial fuel cells (MFCs). Water Science and Technology, 64(4), 789-795.
3. **Calli B.**, Chung L.C., Arslan D., Vanbroekhoven K. (2009) H-2 production potential in thermophilic mixed fermentation. Journal of Environmental Science and Health Part A 44, 78-86.
4. Mertoglu B., Semerci N., Guler N., **Calli B.**, Cecen F., Saatci A.M. (2008) Monitoring of population shifts in an enriched nitrifying system under gradually increased cadmium loading. Journal of Hazardous Materials 160(2-3), 495-501.
5. **Calli B.**, Zhao J., Nijssen E., Vanbroekhoven K. (2008) Significance of acetogenic H-2 consumption in dark fermentation and effectiveness of pH. Water Science and Technology 57(6), 809-814.
6. **Calli B.**, Schoenmaekers K., Vanbroekhoven K., Diels L. (2008) Dark fermentative H-2 production from xylose and lactose - Effects of on-line pH control. International Journal of Hydrogen Energy 33(2), 522-530.
7. Mertoglu B., **Calli B.**, Inanc B., Ozturk I. (2006) Evaluation of in situ ammonia removal in an aerated landfill bioreactor. Process Biochemistry 41(12), 2359-2366.
8. **Calli B.**, Mertoglu B., Roest K., Inanc B. (2006) Comparison of long-term performances and final microbial compositions of anaerobic reactors treating landfill leachate. Bioresource Technology 97(4), 641-647.
9. **Calli B.**, Mertoglu B., Inanc B., Yenigun O. (2005) Methanogenic diversity in anaerobic bioreactors under extremely high ammonia levels. Enzyme and Microbial Technology 37(4), 448-455.
10. **Calli B.**, Mertoglu B., Inanc B., Yenigun O. (2005) Effects of high free ammonia concentrations on the performances of anaerobic bioreactors. Process Biochemistry 40(3-4), 1285-1292.
11. **Calli B**., Yukselen M.A. (2002) Anaerobic treatment by a hybrid reactor. Environmental Engineering Science 19(3), 143-150.
12. Inanc B., **Calli B**., Saatci A. (2000) Characterization and anaerobic treatment of the sanitary landfill leachate in Istanbul. Water Science and Technology 41(3), 223-230.