

PUBLICATIONS

A. BOOK CHAPTER

1. Tugtas, A. E., & Çalli, B. (2018). Removal and Recovery of Metals by Using Bio-electrochemical System. In *Microbial Fuel Cell* (pp. 307-333). Springer, Cham.

B. BOOK CHAPTER TRANSLATION

1. Tugtas A. E. (2017) Kompostlaştırma. *Katı Atık Yönetimi ve Teknolojileri* (569-582). Nobel, Ankara

C. REFEREED JOURNAL PUBLICATIONS (INTERNATIONAL)

1. Aydin S., Yesil H., **Tugtas A.E.** (2018). Recovery of mixed volatile fatty acids from anaerobically fermented organic wastes by vapor permeation membrane contactors. *Bioresource technology*, 250 (548-555).
2. Liu Y. W., **Tugtas A. E.**, Sharma K. R., Ni B. J. and Yuan Z. G. (2016). Sulfide and methane production in sewer sediments: Field survey and model evaluation. *Water Research* **89**, 142-50.
3. **Tugtas A.E.**. 2014 Recovery of volatile fatty acids via membrane contactor using flat membranes: Experimental and theoretical analysis. *Waste Management*, 34:1171-1178
4. H.Yesil, **Tugtas A.E.**, A.Bayrakdar, B.Calli. 2014. Anaerobic fermentation of organic solid wastes: volatile fatty acid production and separation. *Water Science and Technology* 69(10): 2132-2138.
5. **Tugtas AE.** , Cavdar P., and Calli B. 2013. Bio-electrochemical post-treatment of anaerobically treated landfill leachate. *Bioresource Technology* 128: 266-272
6. **Tugtas AE.** , Cavdar P., and **Calli B.** 2011. Continuous flow membrane-less air cathode microbial fuel cell with spunbonded olefin diffusion layer. *Bioresource Technology* 102:10425-10430.
7. Cavdar P., Yilmaz E., **A. E. Tugtas**, 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.
8. **Tugtas A.E.**, U. Tezel, and S. G. Pavlostathis. 2010. A Comprehensive Model of Simultaneous Denitrification and Methanogenic Fermentation Processes. *Biotechnology & Bioengineering* 105(1):98-108.
9. **Tugtas, A. E.**, and S. G. Pavlostathis. 2008. Inhibitory Effects of Nitrate Reduction on Methanogenesis in the Presence of different Electron Donors. *Water Science & Technology* 57(5):693-698.
10. **Tugtas A.E.**, and S. G. Pavlostathis. 2007. Electron Donor Effect on Nitrate Reduction Pathway and Kinetics in a Mixed Methanogenic Culture. *Biotechnology & Bioengineering* 98 (4):756-763.

11. **Tugtas A.E.**, and S. G. Pavlostathis. 2007. Effect of Sulfide on Nitrate Reduction in Mixed Methanogenic Cultures. *Biotechnology & Bioengineering* 97 (6):1448-1459.
12. **Tugtas, A. E.**, and S. G. Pavlostathis. 2007. Inhibitory Effects of Nitrogen Oxides on a Mixed Methanogenic Culture. *Biotechnology & Bioengineering* 96 (3):444-455.
13. **Tugtas, A. E.**, U. Tezel, and S. G. Pavlostathis. 2006. An Extension of the Anaerobic Digestion Model No. 1 to Include the Effect of Nitrate Reduction Processes. *Water Science & Technology* 54(4):41-49.

D. REFEREED JOURNAL PUBLICATIONS (NATIONAL)

14. **Tugtas, A. E.**, Kasikci K., Calli B. 2011. Calculation of the amount of ammonia volatilization during biological leachate treatment. *Fen Bilimleri Dergisi*. 23(1):12-20. ISSN: 2146-5150
15. **Tugtas, A. E.** 2011. Fermentative organic acid production and removal. *Fen Bilimleri Dergisi* 23(2):70-82. ISSN: 2146-5150

E. CONFERENCE AND WORKSHOP PROCEEDINGS (INTERNATIONAL)

1. Aydin S., Yesil H., **Tugtas, A. E.** “Volatile Fatty Acid Recovery from Anaerobically Fermented Organic Wastes”, 9th Eastern European Young Water Professionals Conference, Budapshst, Hungary, 24-27 Mayıs 2017
2. Kullu C, Taner H., Yesil H., **Tugtas, A. E.** “Application of Pervaporation in Environmental Engineering: VFA Separation via Commercial and Manufactured Membranes”, International Sustainability Conference, İstanbul, Türkiye, 1-3 Aralık 2016
3. Yesil H., **Tugtas, A. E.**, Bayrakdar A. and B. Calli. “Anaerobic Fermentation of Organic Solid Wastes: Volatile Fatty Acid Production and Separation”, 13th World Congress on Anaerobic Digestion, Santiago de Compostela, Spain, June 2013
4. Cavdar P, Yilmaz E, **Tugtas, A. E.**, and B. Calli. “Acidogenic Fermentation of Municipal Solid Waste and its Application to Bio-electricity Production via Microbial Fuel Cells (MFCs)”, 12th World Congress on Anaerobic Digestion: Water and Energy for the World, Guadalajara, Mexico, October 2010.
5. **Tugtas, A. E.**, and S. G. Pavlostathis. “Inhibitory effects of nitrate reduction on methanogenesis in the presence of different electron donors”, 11th World Congress on Anaerobic Digestion: Bioenergy for our Future, Brisbane, Australia, September 2007.
6. **Tugtas, A. E.**, U. Tezel, and S. G. Pavlostathis. “An Extension of the Anaerobic Digestion Model No. 1 to Include the Effect of Nitrate Reduction Processes,” The First International Workshop on the IWA Anaerobic Digestion Model No. 1 (ADM1), Copenhagen, Denmark, September 2005.

F. CONFERENCE AND WORKSHOP PROCEEDINGS (NATIONAL)

1. **Tugtas A.E.**, Cavdar P., Calli B. 2010. “Evsel Katı Atıklardan Anaerobik Fermentasyon ile Organik Asit Üretimi”. Organik Atıklardan Kompost ve Yenilenebilir Enerji Üretimi & Kompostun Kullanım Alanları Çalıştayı. ORAK 2010, Istanbul, Turkey. 08-09 June 2010. pp 103-110.

G. CONFERENCE PRESENTATIONS WITHOUT PROCEEDINGS

1. Calli B, P. Cavdar, **A. E. Tugtas**. “Bio-electrochemical Post-treatment of Anaerobically Treated Landfill Leachate. 3rd International Microbial Fuel Cell Conference Wetsus, Leeuwarden, The Netherlands, 6-8 June 2011 (poster).

2. **Tugtas, A. E.**, and S. G. Pavlostathis. “Effect of Sulfide on Nitrate Reduction in a Mixed Methanogenic Culture,” Environmental Systems Microbiology Symposium, Atlanta, GA, March 2006 (poster).

3. **Tugtas, A. E.**, and S. G. Pavlostathis. “Effect of Nitrate Reduction on the Anaerobic Digestion Process,” Industrial Conference & Expo, Georgia Association of Water Professionals, Atlanta, GA, March 2006.

4. **Tugtas, A. E.**, and S. G. Pavlostathis. “Sulfide Exacerbates the Inhibitory Effect of Nitrate Reduction on Methanogenesis,” 105th General Meeting, American Society for Microbiology, Atlanta, GA, June 2005 (poster).

H. REPORTS

1. Pavlostathis, S. G., U. Tezel, **A. E. Tugtas**, R. W. Wallace, J. A. Pierson. 2007. Cold Treatment of Raw Secondary Poultry Nutrient for Improved Dewatering, Storage, and Quality. Final Report – Project No. R60; US Poultry & Egg Association, Poultry Protein & Fat Council, Tucker, GA.