ÖZGEÇMİŞ

ADİLE EVREN TUĞTAŞ, PhD

İLETİŞİM BİLGİLERİ

Ofis Adresi : Marmara University
Mühendislik Fakültesi
Çevre Mühendisliği Bölümü
MD 119, Göztepe, 34722, Istanbul, Türkiye

Tel. : +90 (0216) 348 0292 ext. 519

Faks : +90 (0216) 348 1369

E-posta : evren.tugtas@marmara.edu.tr

Webpage : http://mebig.marmara.edu.tr

EĞİTİM DURUMU

Ph.D.: Major, Civil and Environmental Engineering; Minor, Geomicrobiology; **Georgia Institute of Technology**, Atlanta, Georgia, USA, 2007 (Danışman: Dr. Spyros G. Pavlostathis)
Tez Başlığı: Effect of nitrate reduction on the methanogenic fermentation: Process interactions and modeling.

M.S.: Çevre Mühendisliği, **Georgia Institute of Technology**, Atlanta, Georgia, USA, 2005 (Danışman: Dr. Spyros G. Pavlostathis)

B.S.: Çevre Mühendisliği, **Marmara Üniversitesi**, Istanbul, Türkiye, 2001 (Danışman: Dr. Mehmet Ali Yükselen)

PROFESYONEL GEÇMİŞ

11/2011 -	Öğretim Üyesi, Yardımcı Doçent	Marmara Üniversitesi Çevre Mühendisliği Bölümü Istanbul, Türkiye
09/2010 – 11/2011	Doktora Sonrası Araştırmacı	Marmara Üniversitesi MEBIG Environmental Biotechnology Group, Istanbul, Türkiye
09/2009 – 07/2010	Doktora Sonrası Araştırmacı	The University of Queensland Advanced Water Management Centre, Brisbane, Avustralya
09/2008-09/2009	Öğretim Görevlisi	Bahcesehir Üniversitesi, Istanbul, Türkiye

2007-2008	Uzman Araştırmacı	Türkiye Bilimsel ve Teknolojik Araştırma Kurumu (TUBITAK), Marmara Araştırma Merkezi, Kocaeli, Türkiye
2002-2007	Doktora Öğrencisi/Araştırma Görevlisi	Georgia Institute of Technology, Atlanta, GA, USA

UZMANLIK VE İLGİ ALANLARI

- Endüstriyel ve evsel atıkların biyolojik arıtımı
- Anaerobik fermentasyon ve metanojenesis
- Nitrat indirgeme prosesleri
- Eşzamanlı karbon, azot, ve sulfur giderimi
- Arıtma proseslerin kinetik hesaplamaları ve modellenmesi
- Kanalizasyonda koku ve korozyon giderimi
- Biyo-elektrokimyasal işlemler

PROFESYONEL ETKİNLİKLER

Hakemlik yapılan dergiler

Clean Soil, Air, Water
Water Environment Research
Journal of Chemical Technology & Biotechnology
Waste Management

ÜYELİKLER

American Chemical Society (2008-bugüne)
International Water Association (2008-bugüne)

EĞİTİM (Verilen Dersler)

Bahcesehir Üniversitesi

Unit Operations and Processes	(Lisans)
Solid Waste Management	(Lisans)
Contemporary Environmental Issues	(Lisans)

Marmara University

General Chemistry	(Lisans)

ÖDÜLLER

Marmara Üniversitesi, Lisans, birincilikle mezuniyet (2001)

YAYINLAR

A. ULUSLARARASI HAKEMLİ DERGİLER

1. **Tugtas A. E.,** Keshab R. Sharma, Zhiguo Yuan. Sulfide and Methane Production in Sewer Sediments. (*Water Research dergisine gönderilecek*)

2. **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.

3. 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.

4. **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.

5. **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.

6. **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.

7. **Tugtas A.E.**, and S. G. Pavlostathis. 2007. Effect of Sulfide on Nitrate Reduction in Mixed Methanogenic Cultures. Biotechnology & Bioengineering 97 (6):1448-1459.

8. **Tugtas, A. E.**, and S. G. Pavlostathis. 2007. Inhibitory Effects of Nitrogen Oxides on a Mixed Methanogenic Culture. Biotechnology & Bioengineering 96 (3):444-455.

9. **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.

B. ULUSAL HAKEMLİ DERGİLER

10. **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

11. **Tugtas, A. E.** 2011. Fermentative organic acid production and removal. Fen Bilimleri Dergisi 23(2):70-82. ISSN: 2146-5150

C. ULUSLARARASI KONFERANSLAR

1. 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.

2. **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.

3. **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.

D. ULUSAL KONFERANSLAR

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, Türkiye. 08-09 June 2010. pp 103-110.

E. BİLDİRİSİZ ULUSLARARASI KONFERANSLAR

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).

F. RAPORLAR

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.

PROJELER

2010 – 2012**: Organic Acid Production from Bio-Waste via Anaerobic Fermentation.**
Destekleyen Kurum: Türkiye Bilimsel ve Teknolojik Araştırma Kurumu (TUBITAK)
Destek Tipi: 2218 – Doktora sonrası araştırmacı bursu

09/2009 – 07/2010: **Optimal Management of Corrosion and Odor Problems in Sewer Systems (LP0882016).** Yürütücü: Prof. Dr. Zhiguo Yuan,
Alt proje: SP8, Model-based tool for decision support for technology selection, prioritization and optimization. Yönetici: Dr. Keshab Sharma
Destekleyen Kurum: Avustralya Araştırma Kurumu (Australian Research Council)

2008-2009: **Hayvansal Atık Yönetimi (TARAL 1007 - 106G026).**
Destekleyen Kurum: Türkiye Bilimsel ve Teknolojik Araştırma Kurumu (TUBITAK)

2002-2007: **Doktora Tezi: Effect of nitrate reduction on the methanogenic fermentation: Process interactions and modeling.**
Destekleyen Kurum: Georgia Institute of Technology