

# Prof. Dr. Bülent MERTOĞLU



Marmara Üniversitesi, Mühendislik Fakültesi,  
Biyomühendislik Bölümü, 34722,  
Göztepe, İstanbul, Türkiye.

Telefon : +90 216 3480292 - dahili 1699

Faks : +90 216 3474090

e-mail : [bulent.mertoglu@marmara.edu.tr](mailto:bulent.mertoglu@marmara.edu.tr)

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## EĞİTİM

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<b>1993 - 1999</b>	Lisans - Marmara Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, İstanbul, Türkiye.
<b>1999 - 2001</b>	Yüksek Lisans - Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Mühendisliği Bölümü, İstanbul, Türkiye.
<b>2001 - 2005</b>	Doktora - Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Mühendisliği Bölümü, İstanbul, Türkiye.

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## AKADEMİK POZİSYONLAR

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<b>Araştırma Görevlisi</b>	Marmara Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü (2000-2005)
<b>Yardımcı Doçent</b>	Marmara Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü (2006-2007)
<b>Yardımcı Doçent</b>	Marmara Üniversitesi, Mühendislik Fakültesi, Biyomühendislik Bölümü, (2007-2009)
<b>Doçent</b>	Marmara Üniversitesi, Mühendislik Fakültesi, Biyomühendislik Bölümü, (2009- 2015 )
<b>Profesör</b>	Marmara Üniversitesi, Mühendislik Fakültesi, Biyomühendislik Bölümü, (2015)

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## ÇALIŞMA KONULARI

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Mikrobiyal ekoloji ve atıksu mühendisliği, çevre biyoteknolojisi ve mikrobiyolojisi; azot döngüsünde rol alan organizmalar, endokrin bozucu kimyasallar, membran prosesleri, entegre katı atık yönetimi, atıksu arıtma tesisi boyutlandırma ve işletme programları (ATV 131, SSSP ve ASM).

Moleküler mikrobiyoloji teknikleri (polymerase chain reaction (PCR), real-time PCR, denaturing gradient gel electrophoresis (DGGE), fluorescent in-situ hybridization (FISH), slot-blot hybridization, restriction fragment length polymorphism (RFLP), klonlama ve DNA dizi analizi).

**Uluslararası Yayınlar (SCI Index)**

1. Inanc B., Calli B., Alp K., Ciner F., **Mertoglu B.** and Ozturk I. (2002) Toxicity assessment on combined biological treatment of fermentation and chemical synthesis based pharmaceutical industry effluents. *Water Science and Technology*, 45(12), 135-142.
2. Calli B., Tas N., **Mertoglu B.**, Inanc B. and Ozturk I. (2003) Molecular analysis of microbial communities in nitrification and denitrification reactors treating high ammonia leachate. *Journal of Environmental Science and Health-Part A*, 38(10), 1997-2007.
3. Calli B., **Mertoglu B.**, Tas N., Inanc B., Yenigun O. and Ozturk I. (2003) Investigation of variations in microbial diversity in anaerobic reactors treating landfill leachate. *Water Science and Technology*, 48(4), 105-112.
4. Birbir M., Ogan A., Calli B. and **Mertoglu B.** (2004) Enzyme characteristics of extremely halophilic archaeal community in Tuzkoy salt mine, Turkey. *World Journal of Microbiology and Biotechnology*, 20(6), 613-621.
5. Calli B., **Mertoglu B.**, Inanc B., and Yenigun O. (2005) Effects of high free ammonia concentrations on the performances of anaerobic bioreactors. *Process Biochemistry*, 40(3-4), 1285-1292.
6. Calli B., **Mertoglu B.**, Inanc B. and Yenigun O. (2005) Community changes during start-up in methanogenic bioreactors exposed to increasing levels of ammonia. *Environmental Technology*, 26(1), 85-91.
7. Calli B., **Mertoglu B.** and Inanc B. (2005) Landfill leachate management in Istanbul; applications and alternatives. *Chemosphere*, 59(6), 819-829.
8. **Mertoglu B.**, Calli B., Girgin E., Inanc B. and Ozturk I. (2005) Comparative analysis of nitrifying bacteria in full scale oxidation ditch and aerated nitrification biofilter by using FISH and DGGE. *Journal of Environmental Science and Health-Part A*, 40(5), 937-948.
9. Calli B., **Mertoglu B.**, Inanc B. and 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.**, Roest K. and Inanc B. (2006) Comparison of long-term performances and final microbial compositions of anaerobic reactors treating landfill leachate. *Bioresource Technology*, 97(4), 641-647.
11. Calli B., Durmaz S. ve **Mertoglu B.** (2006) Identification of prevalent microbial communities in a municipal solid waste landfill. *Water Science and Technology*, 53(8), 139-147.
12. **Mertoglu B.**, Calli B., Inanc B. and Ozturk I. (2006) Evaluation of in situ ammonia removal in an aerated landfill bioreactor, *Process Biochemistry*, 41 (12), 2359-2366.
13. **Mertoglu B.**, Calli B., Guler N., Inanc B. ve Inoue Y. (2007) Effects of insufficient air injection on methanogenic Archaea in landfill bioreactor. *Journal of Hazardous Materials*, 142, 258-265.
14. Birbir M., Calli B., **Mertoglu B.**, Bardavid R.E., Oren A., Ogmen M.N. ve Ogan A. (2007) Extremely halophilic Archaea from Tuz Lake, Turkey, and the adjacent Kaldirim and Kayacik salterns. *World Journal of Microbiology and Biotechnology*, 23(3), 309-316.
15. **Mertoglu B.**, (2008) Long term assessment of nitrification in a full-scale wastewater treatment plant, *Journal of Environmental Science and Health-Part A*, 43(5), 538-546.
16. **Mertoglu B.**, Semerci, N., Guler, N., Calli, B., Cecen, F. ve Saatci, A.M. (2008) Monitoring of population shifts in an enriched nitrifying system under gradually increased cadmium loading, *Journal of Hazardous Materials*, 160, 495-501.

17. Yapsakli, K., **Mertoglu, B.**, Çeçen, F. (2010) Identification of nitrifiers and nitrification performance in drinking water biological activated carbon (BAC) filtration. *Process Biochemistry*, **45(9)**, 1543-1549.
18. Berber, D., Birbir, M., **Mertoglu, B.** (2010) Examination of Bacterial and Archaeal Populations in Salt, Salted and Soaked Hide and Soak Liquor Samples Via Fluorescent in situ Hybridization, *Journal of the Society of Leather Technologists and Chemists*, **94(6)**, 259-261.
19. Kalkan, C., Yapsakli, K., **Mertoglu, B.**, Tufan, D., Saatci, A. (2011) Evaluation of Biological Activated Carbon (BAC) process in wastewater treatment secondary effluent for reclamation purposes. *Desalination*, **265**, 266-273.
20. Yapsakli, K., Aliyazicioglu, C., **Mertoglu, B.** (2011) Identification and quantitative evaluation of nitrogen-converting organisms in a full-scale leachate treatment plant, *Journal of Environmental Management*, **92(3)**, 714-723.
21. Ozdemir, B., **Mertoglu, B.**, Yapsakli, K., Aliyazicioglu, C., Saatci, A., Yenigun O. (2011) Investigation of nitrogen converters in membrane bioreactor, *Journal of Environmental Science and Health-Part A*, **46(5)**, 500-508.
22. Akgul, D., **Mertoglu, B.**, Yuzer, B. (2011) Characterization of landfill leachates in Turkey, *Fresenius Environmental Bulletin*, **20(10)**, 2638-2642.
23. Ozdemir, H., **Mertoglu, B.**, Demir, G., Deniz, A., Toros, H. (2012) Case study of PM pollution in playgrounds in Istanbul, *Theoretical and Applied Climatology*, **108**, 553-562.
24. Huncce, S.Y., Akgul, D., Demir, G., **Mertoglu, B.** (2012) Solidification/stabilization of landfill leachate concentrate using different aggregate materials, *Waste Management*, **32**, 1394-1400.
25. Aktan, C.K., Yapsakli, K., **Mertoglu, B.** (2012) Inhibitory effects of free ammonia on Anammox bacteria, *Biodegradation*, **23**, 751-762.
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27. Ozdemir, H., Pozzoli, L., Kindap, T., Demir, G., **Mertoglu, B.**, Mihalopoulos, N., Theodosi, C., Kanakidou, M., Im, U., Unal, A. (2014) Spatial and temporal analysis of black carbon aerosols in Istanbul megacity, *Science of the Total Environment*, **473-474**, 451-458.
28. Danis, O., Ogan, A., Tatlican, P., Attar A., Cakmakci, E., **Mertoglu, B.**, Birbir, M. (2015) Preparation of poly (3 - hydroxybutyrate - co - hydroxyvalerate) films from halophilic archaea and their potential use in drug delivery, *Extremophiles*, **19**, 515-524.
29. Bereketoglu, C., Arga, K.Y., Eraslan, S., **Mertoglu B.** (2017) Analysis of transcriptional profiles of *Saccharomyces cerevisiae* exposed to bisphenol A, *Current Genetics*, **63(2)**, 253-274.
30. Yapsakli, K., Aktan, C.K., **Mertoglu B.** (2017) Anammox-zeolite system acting as buffer to achieve stable effluent nitrogen values, *Biodegradation*, **28**, 69-79.
31. Ayyildiz, D., Arga, K.Y., Avci, F.G., Altinisik, F.E., Gurer, C., Toplan, G.G., Kazan, D., Wozny, K., Brügger, B., **Mertoglu, B.**, Akbulut, B.S. (2017) Transcriptomic analysis displays the effect of (-)-roemerine on the motility and nutrient uptake in *Escherichia coli*, *Current Genetics*, **63(4)**, 709-722.
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### ***Ulusal Yayınlar***

1. Çallı B., **Mertoğlu B.**, Koçum S., Nart P., Odabaşı E. ve İnanç B. (2000). Yüksek amonyak içeren katı atık depo sahası sızıntı sularının anaerobik arıtımı ve reaktör tipinin etkisi, *Su Kirlenmesi Kontrolü Dergisi*, 10(2): 37-43.
2. Çallı B., Ergene D., Düzova N., Özkan D., **Mertoğlu B.** ve İnanç B. (2000). Sızıntı suyu arıtımında karşılaşılan yüksek pH ve amonyak konsantrasyonunun asetik asit kullanan metanojenler üzerine etkisi, *Su Kirlenmesi Kontrolü Dergisi*, 10(2): 45-51.
3. Yuzer, B., Akgul, D., **Mertoglu B.** (2012) Effect of High Ammonia Concentration on UASB Reactor Treating Sanitary Landfill Leachate, *Fen Bilimleri Dergisi*, 24(2), 59-67.
4. Kocak, S., Guney, C., Argun M.T., Tarkin, B., Kirtman, E.O., Akgul, D., **Mertoglu, B.** (2013) Treatment of Landfill Leachate by Advanced Oxidation Processes, *Fen Bilimleri Dergisi*, 25(2), 51-64.

### ***Uluslararası Konferans Sunumları***

1. Calli B., Inanc B., **Mertoglu B.**, Zorer E., Ciner F., Aydin A. F. (2001). "Advanced treatment alternatives for Istanbul Komurcuoda Sanitary Landfill leachate" Third Black Sea International Conference, Environmental Protection Technologies for Coastal Protection, 6-8 June, Varna, Bulgaria.
2. Inanc B., Kinaci C. Calli B., **Mertoglu B.**, Arikan O., Altınbas M., Ozturk I. (2001). "Post-dredging water and sediment quality in the Golden Horn of İstanbul" Fourth Middle East Regional Conference on the Role of Environmental Awareness in Waste Management, 22-24 October, Kuwait City, Kuwait.
3. Inanc B., Calli B., Alp K., Ciner F., **Mertoglu B.**, Ozturk I. (2001). "Toxicity assessment on combined Biological treatment of fermentation and chemical synthesis based pharmaceutical industry effluents" Fifth International Symposium on Waste Management Problems in Agro-Industries, 16-18 November, Shiga-Japan.
4. Inanc B., Calli B., **Mertoglu B.**, Roest K., Akkermans A.D.L. (2001). "Long-term performances and microbial composition of different anaerobic reactor configurations treating high ammonia leachate" IWA Conference on Water and Waste Management for Developing Countries, 26-31 October, Kuala Lumpur, Malaysia.
5. Calli B., **Mertoglu B.**, Davutluoglu A., Gunes B., Girgin E., Tas N., Inanc B., Yenigun O. (2002). "Anaerobic treatment of high ammonia landfill leachate with and without pH control" ISWA 2002 World Environment Congress, 8-12 July, Istanbul, Turkey.
6. Calli B., **Mertoglu B.**, Tas N., Inanc B. (2002). "Comparative evaluation of air stripping and struvite precipitation for ammonia removal from landfill leachate" ISWA 2002 World Environment Congress, 8-12 July, Istanbul, Turkey.
7. Calli B., **Mertoglu B.**, Tas N., Inanc B., Yenigun O., Ozturk I. (2002). "Investigation of variations in microbial diversity in anaerobic reactors treating landfill leachate" Anaerobic Digestion of Solid Wastes 2002 Conference, 18-20 September, Munich, Germany (Water Science and Technology'de yayınlandı).
8. Calli B., Tas N., **Mertoglu B.**, Inanc B., Ozturk I. (2002). "Molecular analysis of microbial communities in nitrification and denitrification reactors treating high ammonia leachate" 5th Specialised Conference on Small Water and Wastewater Treatment Systems, 24-26 September, Istanbul, Turkey (Journal of Environmental Science and Health-Part A'da yayınlandı).
9. Birbir M, Ogan A, Calli B., **Mertoglu B.** (2003). "Diversity of extremely halophilic archaeal community in Tuzkoy salt mine in Turkey" Third Balkan Conference of Microbiology, 4-6 September, Istanbul, Turkey.

10. Yangin G. C., Calli B., **Mertoglu B.**, Ozturk I. (2004) "Methanogenic community structures in UASBR treating low strength wastewater at psychrophilic temperatures" Second IWA Young Researchers Conference, 23-24 April, Wageningen, The Netherlands
11. Yangin G. C., Calli B., **Mertoglu B.**, Eroglu V., Ozturk I. (2004) "Comparative evaluation of methanogenic communities in psychrophilic and mesophilic UASB reactors treating domestic wastewater" European Symposium on Environmental Biotechnology, ESEB 2004, April 25-28, Oostende, Belgium.
12. Eldem N., Ozturk I., Soyer E. Calli B. **Mertoglu B.**, Akgiray O. (2004) "Ammonia and pH Inhibition in Anaerobic Treatment" IWA Tenth World Congress on Anaerobic Digestion, August 29-September 2, Montreal, Canada.
13. Calli B., Durmaz S., **Mertoglu B.** (2005) "Identification of Prevalent Microbial Communities in a Municipal Solid Waste Landfill" Anaerobic Digestion of Solid Waste 2005 Conference, 31 August-02 September, Copenhagen, Denmark (Water Science and Technology'de yayımlandı).
14. Yazici, B., Can, Z.S., Gokyay, O., Calli, B., **Mertoglu, B.**, Akgul, D., Yetis, U., Investigation of Hazardous Waste Generation By Turkish Automotive Industry. EurAsia Waste Management Symposium, 14-16 November, Istanbul, (2011).
15. Yazici, B., Calli, B., **Mertoglu, B.**, Can, Z.S., Gokyay, O., Akgul, D., Yetis, U., Hazardous Waste Generation from Household Appliances Industry in Turkey. EurAsia Waste Management Symposium, 14-16 November, Istanbul, (2011).
16. Akgul, D., Yuzer, B., **Mertoglu, B.**, Quantitative Evaluation of Nitrogen Converters in Various Landfill Leachates. 16<sup>th</sup> International Biotechnology Symposium and Exhibition, 14-19 September, Fortaleza, Brazil, (2014).
17. **Mertoglu, B.**, Yapsakli, K., Nitrogen converters in wastewater treatment plants. 1st International Caparica Conference on Pollutant Toxic Ions and Molecules (PTİM), 2-4 November, Caparica, Portugal, (2015).

#### *Uluslararası Konferans Posterleri*

1. Inanc B., Calli B., **Mertoglu B.** (2000). "Performances of anaerobic filter, UASB and hybrid reactors treating high ammonia landfill leachate" Fourth International Symposium on Environmental Biotechnology, 10-12 April, Noordwijkerhout, The Netherlands.
2. Calli B., **Mertoglu B.**, Davutluoglu A., Gunes B., Girgin E., Inanc B. (2001). "Characterization and anaerobic treatability of Kömürcüoda Sanitary Landfill leachate" Turkish-German Environmental Symposium, Advanced Technologies in Wastewater Treatment, 10-12 October, Izmir, Turkey.
3. Inanc B., **Mertoglu B.**, Calli B., Inoue Y., Akgiray O., Yamada M., Ono Y. (2005) "Microbial diversity changes in an aerated landfill bioreactor test cell of co-disposed MSWI bottom ash and shredded residues" Anaerobic Digestion of Solid Waste 2005 Conference, 31 August-02 September, Copenhagen, Denmark.
4. **Mertoglu, B.**, (2007) Microbial diversity changes in an aerated landfill bioreactor. 11<sup>th</sup> World Congress on Anaerobic Digestion, Brisbane, Australia, 122.
5. **Mertoglu, B.**, Yapsakli, K., Cecen, F, "Detection of nitrifier population in BAC columns," 4th IWA Specialist Conference, Natural Organic Matter: from Source to Tap, Bath, England, 696-699, 2008.
6. **Mertoglu, B.**, Yapsakli, K., Ozdemir, B, "Evaluation of long term nitrification and denitrification activity in a full scale oxidation ditch system," Specialised Conference on Microbial Population Dynamics in Biological Wastewater Treatment, Aalborg, Denmark, 2009.

7. Tufan, D., Aliyazicioglu, C., Yuzer, B., **Mertoglu, B.** “Co-occurrence of aerobic and anaerobic ammonium oxidizing microorganisms in landfill leachate,” IWA World Water Congress and Exhibition, Montreal, Canada, 2010.
8. Yapsakli, K., Kalkan, C., Tufan, D., **Mertoglu, B.** “Tertiary Treatment of Paşaköy Advanced Wastewater Treatment Plant by Biological Activated Carbon (BAC),” IWA World Water Congress and Exhibition, Montreal, Canada, 2010.
9. Kalkan, C., Yapsakli, K., **Mertoglu, B.** “Enrichment of Anammox Bacteria in Reactor Packed with Kaldnes Rings,” International sustainable water and wastewater management symposium (USAYS), Konya, Turkey, 2010.
10. Aliyazicioglu, C., Yapsakli, K., **Mertoglu, B.,** Çeçen F. “Analysis of Denitrification Process in Biological Activated Carbon (BAC) Used for Drinking Water Treatment,” International sustainable water and wastewater management symposium (USAYS), Konya, Turkey, 2010.
11. Akgul, D., **Mertoglu, B.,** Yuzer, B. “Characterization of Landfill Leachates in Turkey,” International sustainable water and wastewater management symposium (USAYS), Konya, Turkey, 2010.
12. Çavdar, P., Yılmaz, E., **Mertoglu, B.,** Calli, B. “Power Generation from Organic Wastewater Using a Bio-Cathode Microbial Fuel Cell (MFC),” International sustainable water and wastewater management symposium (USAYS), Konya, Turkey, 2010.
13. Yapsakli, K., Mertoglu, B. Fluorescence Spectroscopic Analysis of Omerli Reservoir Water at Different Ozone Doses. 4<sup>th</sup> IWA Specialist Conference, Natural Organic Matter: From Source to Tap and Beyond, Costa Mesa, California, USA, (2011).
14. **Mertoglu, B.,** Yapsakli, K., Akgul, D., Yuzer, B. Characterization of Dissolved Organic Matter in Landfill Leachate by Fluorescence Spectroscopy. 4<sup>th</sup> IWA Specialist Conference, Natural Organic Matter: From Source to Tap and Beyond, Costa Mesa, California, USA, (2011).
15. Bereketoglu, C., Arga, K.Y., **Mertoglu, B.** Investigating the toxic effects of nonylphenol on *Saccharomyces cerevisiae*. 17th European Congress on Biotechnology, Krakow, Poland (2016).

### ***Türkçe Konferans Sunumları***

1. Çallı B., **Mertoğlu B.,** Bağrıaçık E. ve İnanç B. (2000) “Yüksek amonyak içeren sızıntı sularının nitrifikasyonu” 2000 GAP-Çevre Kongresi, 16-18 Ekim, Şanlıurfa.
2. İnanç B., Çallı B., **Mertoğlu B.,** Arıkan O., Altınbaş M., Kınacı C. ve Öztürk İ. (2001) “Haliç’te tarama sonrası su ve çamur kalitesi” Haliç Sempozyumu 2001, 3-4 Mayıs, İstanbul (Çağrılı Bildiri).
3. **Mertoğlu B.,** Çallı B., İnanç B., Roest K. ve Öztürk İ. (2001) “Anaerobik Reaktörlerdeki Mikroorganizmaların Tanısında Fluorescent In Situ Hybridization (FISH) Tekniğinin Kullanılması” 12. Biyoteknoloji Kongresi, 17-21 Eylül, Ayvalık, Balıkesir.
4. **Mertoğlu B.,** Çallı B., Taş N., Aksu D., Konukçu M., Erdoğan E. ve İnanç B. (2001) “Yüksek Amonyak İçeren Sızıntı Sularında Biyolojik Azot Giderimi” 4.Ulusal Çevre Mühendisliği Kongresi, 7-10 Kasım, İçel.
5. Çallı B., **Mertoğlu B.,** Altunkaynak F., Salpar G. D., Yıldız E., Girgin E. Ve Yenigün O. (2003) “Yüksek amonyak konsantrasyonunun anaerobik arıtma üzerindeki etkileri” 2. Ulusal Çevre Kirliliği Kontrolü Sempozyumu, 22-24 Ekim, Ankara, Türkiye.
6. **Mertoğlu B.,** Çallı B., Girgin E., Güler N., Bayender B., İnanç B., Saatçı A. M. (2004) “Tuzla Atıksu Arıtma Tesisi Nitrifikasyon Potansiyelinin FISH ve Respirimetrik Deneyler ile İncelenmesi” İTÜ 9. Endüstriyel Kirlenme Kontrolü Sempozyumu, 2-4 Haziran, İstanbul.

7. **Mertoğlu B.**, Çallı B., Akanyeti İ., Tufan D., Güler N., İnanç B., (2005) “Havalandırılmalı Katı Atık Depo Sahasındaki Mikrobiyal Çeşitliliğin Moleküler Teknikler ile İncelenmesi” VI. Ulusal Çevre Mühendisliği Kongresi, 24-26 Kasım, İstanbul.
8. Şam S.D., **Mertoğlu B.**, Yükselen M.A., Çallı, B. (2007) “Bir katı atık depo sahasında stabilizasyona bağlı olarak görülen değişimler”, Ulusal Çevre Sempozyumu 2007, 121, Mersin.
9. **Mertoğlu B.**, Semerci N., Çeçen F., Saatçı A.M. (2007) “Kadmiyumun nitrifikasyon bakterisi türlerine etkisinin moleküler tekniklerle incelenmesi”, Ulusal Çevre Sempozyumu 2007, 53, Mersin.
10. Yapsaklı, K., S. Yiğit, A.G. Yılmaz, **B. Mertoğlu**, “Zeolit dolgulu filtrelerde anammox kültürünün yetiştirilmesi”, Türkiye’de Çevre Kirlenmesi Öncelikleri Sempozyumu VI, 278-282, Gebze, 2009.
11. Çavdar, P., E. Yılmaz, **B. Mertoğlu**, B. Çallı, “Mikrobiyal yakıt hücreleri ile atıksu arıtımı: İşletmeye alma aşaması”, Türkiye’de Çevre Kirlenmesi Öncelikleri Sempozyumu VI, 206-210, Gebze, 2009.
12. Onay, T.T., Okutan, H., Arıkan, O., Çallı, B., Mertoğlu, B., Demirel, B., Uludağ, O. Entegre katı atık yönetimi için biyoreaktör depolama alanı yaklaşımı, IWES - 3. Atık Teknolojileri Sempozyumu ve Sergisi, 2011.
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